

EXPLANATORY STATEMENT FOR THE DEPARTMENT OF
DEFENSE APPROPRIATIONS BILL, 2022

**DIVISION A—DEPARTMENT OF DEFENSE
APPROPRIATIONS ACT, 2022**

BACKGROUND

PURPOSE OF THE BILL

This bill makes appropriations for the military functions of the Department of Defense for the period October 1, 2021, through September 30, 2022. Functional areas include the pay, allowances, and support of military personnel, operation and maintenance of the forces, procurement of equipment and systems, and research, development, test and evaluation. Appropriations for foreign military assistance, military construction, family housing, nuclear weapons programs, and civil defense are provided in other bills.

HEARINGS

The Appropriations Subcommittee on Defense began hearings on April 13, 2021 and concluded them on June 24, 2021, after nine separate sessions. The subcommittee heard testimony from representatives of the Department of Defense and the Intelligence Community.

SUMMARY OF THE BILL

The Committee recommendation of \$725,820,000,000 includes funding to develop, maintain, and equip the military forces of the United States and for other purposes, including \$514,000,000 in mandatory spending. This recommendation allocates all resources within the base budget, hereby eliminating the overseas contingency operation appropriations for fiscal year 2022. Additionally, the Congress appropriated \$3,095,000,000 in emergency appropriations in Public Law 117–43 for disaster relief and costs associated with Afghanistan humanitarian operations.

The fiscal year 2022 budget request for activities funded in the Department of Defense appropriations bill totals \$706,461,170,000 in new budget authority, including \$514,000,000 in mandatory spending.

In fiscal year 2021, the Congress appropriated \$696,475,500,000 for activities funded in this bill. This amount included \$627,311,500,000 in base appropriations and \$68,650,000,000 in overseas contingency operations appropriations provided in Public Law 116–260. Additionally, the Congress appropriated \$1,020,900,000 in emergency appropriations for fiscal year 2021 in Public Law 117–31.

The Committee recommendation in this bill is \$29,344,500,000 above the amount provided in fiscal year 2021, excluding all emergency funding, and \$19,358,830,000 above the amount requested for fiscal year 2022.

COMMITTEE RECOMMENDATIONS

The following table displays the recommendations for each title:

(In thousands of dollars)

Account	Fiscal year 2021 enacted	Fiscal year 2022 estimate	Committee Recommendation
Title I Military Personnel	157,807,905	167,285,095	166,738,382
Title II Operation and Maintenance	192,213,468	253,623,852	257,821,863
Title III Procurement	136,532,968	132,546,005	141,510,173
Title IV Research, Development, Test and Evaluation	107,135,164	111,964,188	116,152,543
Title V Revolving and Management Funds	1,473,910	1,902,000	2,027,000
Title VI Other Department of Defense Programs	36,024,275	37,947,030	38,678,351
Title VII Related Agencies	1,147,719	1,148,000	1,124,370
Title VIII General Provisions	-4,554,909	.....	1,722,318
Title IX Overseas Contingency Operations	68,650,000	.....	.....
Emergency Security Supplemental Appropriations Act, 2021 (Public Law 117-33)	1,020,900	.....	.....
Disaster Relief Supplemental Appropriations Act, 2022 (Emergency) (Public Law 117-43) .....	.....	.....	895,000
Afghanistan Supplemental Appropriations Act, 2022 (Emergency) (Public Law 117-43) .....	.....	.....	2,200,000
Net grand total	697,451,400	706,416,170	728,870,000
Total mandatory and discretionary (incl. scorekeeping adjustments)	697,496,400	706,461,170	728,915,000

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 2022 as reported by the Senate Armed Services Committee.

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

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, 2022, 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 2023, 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 2023.

REPROGRAMMING GUIDANCE

The Secretary of Defense is directed to continue to follow the reprogramming guidance for acquisition accounts as specified in the report accompanying the House version of the Department of Defense appropriations bill for fiscal year 2008 (House Report 110-279). The dollar threshold for reprogramming funds shall 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 of Committee Recommended Adjustments. The Committee directs that funding increases shall be competitively awarded, or provided to programs that have received competitive awards in the past.

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. In addition, section 8006 of this act provides direction on the treatment of increases which appear in the tables of the explanatory statement. This section provides limitations on the use of reprogramming authority in relation to these items.

COMMITTEE INITIATIVES

The Committee recognizes the progress made in recent years in aligning resources to military requirements as a result of the 2018 National Defense Strategy. The fiscal year 2022 President’s budget request presented to Congress continues these important efforts, by increasing the adoption of advanced technologies, especially in light of the conclusion of the U.S. presence in Afghanistan. However, the transition of administrations and the compressed time for formulation of the fiscal year 2022 request meant that the acceleration of these defense reform efforts was targeted to a limited number of areas.

The Committee’s oversight efforts discovered numerous opportunities to accelerate the pace of change, especially with respect to security and deterrence in the Indo-Pacific region, space and cyber capabilities, artificial intelligence, and infrastructure and public shipyard improvements. Noting that the recommendation includes increased funding for the Department of Defense, the Committee has prioritized investments in these four areas, with recommended increases exceeding \$6,000,000,000.

The recommendation also provides increases to selected high-priority items identified on the unfunded priority lists of the service chiefs and combatant commands. The Committee prioritized consideration of unfunded requirements which address capability gaps in the areas listed above.

The recommendation includes additional funding for certain issues which the Department of Defense is not well positioned to address without additional appropriations. The recommendation includes \$2,813,178,000 to reflect higher inflation estimates than originally forecast. This funding preserves the purchasing power to accomplish needed operations, procurements, and other necessary activities of the Department. The recommendation also includes \$760,900,000 in environmental restoration funding to address per- and polyfluoroalkyl substances [PFAS] pollution related to military installations. These funds are intended to accelerate efforts beyond assessments of PFAS contamination, to remediation of hazards. Finally, the recommendation includes \$500,000,000 for the National Defense Stockpile Transaction Fund to improve American supply chain resilience related to strategic materials.

The Committee directs the Secretary of Defense to provide an execution plan for these priority initiatives, as well as other increases which improve the readiness and capabilities of the Armed Forces, not later than 60 days following enactment of this act.

STRATEGIC COMPETITION WITH CHINA

The Committee recognizes the importance of strategic competition with China and notes the emphasis that the 2021 Interim National Security Strategic Guidance and the 2018 National Defense Strategy places on contending with China's growing military capabilities. To that end, the Committee supports additional investments in the Indo-Pacific region, beyond those proposed in the Pacific Deterrence Initiative, that develop and implement U.S. military capabilities to provide integrated deterrence and reassure U.S. allies and partners. The Committee notes that the President's budget request included \$66,000,000,000 in investments for the Indo-Pacific region. The recommendation includes special consideration for combatant command and service unfunded priorities that directly contribute to enhancing the Department of Defense's ability to effectively compete with China. The recommendation also provides additional funds to accelerate key initiatives that support exercises, experimentation, and technology development for the region including, but not limited to:

- \$141,000,000 for development and procurement funds supporting the installation of homeland defense radars on Hawaii and Guam;
- \$750,000,000 to deploy a United States Indo-Pacific Command [USINDOPACOM] missile tracking satellite demonstration system;
- \$163,000,000 to support the Rapid Design Experimentation Reserve [RDER];
- \$793,444,000 to accelerate the implementation of the Marine Corps Force Design 2030 Initiative;
- \$100,000,000 to enhance the Department's recruitment and retention of an artificial intelligence-literate acquisition workforce;
- \$41,410,000 to support the Pacific Multi-Domain Training and Experimentation Capability;
- \$84,550,000 for sustainment and upgrades to USINDOPACOM's Mission Partner Environment;
- \$88,000,000 for advanced analytic war-gaming tools supporting USINDOPACOM;
- \$3,800,000 for USINDOPACOM's implementation of Future Fusion Centers and a Pacific Movement Coordination Center;
- \$28,000,000 to enhance USINDOPACOM's Military Information Support Operations.

PLANNING, PROGRAMMING, BUDGETING, AND EXECUTION REFORM

Several recent studies have examined the planning, programming, budgeting, and execution [PPBE] process of the Department of Defense, and have recommended various improvements. Chief among the concerns highlighted by these studies is that the De-

partment's processes are too cumbersome, and have contributed to capability gaps as compared to near-peer adversaries.

There is no doubt that the Department of Defense labors under a variety of processes that constrain efficient decision-making, and the Committee continues to support management reform efforts across the Department and the military services. Discussion of PPBE reform should first distinguish between the mechanics of a process, as opposed to the values and priorities that direct the process. For example, a nimble and efficient PPBE process would still result in capability gaps with advanced adversaries if departmental priorities were focused on overseas contingency operations rather than modernization of the force.

The Committee further recognizes that discussion of PPBE reform is closely associated with discussions on how to better transition technologies into the acquisition system. The Committee cautions that bridging the "valley of death" is not a discrete event that concludes when a project is no longer the responsibility of a science and technology agency. The successful transition of military technologies must include establishing the funding necessary in future years to test, field, operate, and sustain the new capability.

To this end, reform of the PPBE process should consider how improved resource processes can increase military capabilities over time, rather than measuring how many technologies can be transitioned in a particular year. Again, an ideal PPBE process would not improve the transition of technologies for improved warfighting capabilities, if resources are prioritized for the preservation of legacy platforms.

Recognizing that improving the strength of the Armed Forces is critically linked to the requirements and resourcing process, the Committee recognizes and supports section 1002 of the Senate-reported National Defense Authorization Act for Fiscal Year 2022, which creates a commission to examine the options for PPBE reform. The recommendation includes an increase of \$2,000,000 to provide for the commission's operations.

BUDGETING FOR NAVY MODERNIZATION

In the fiscal year 2022 budget request, the Navy proposed to break the multi-year procurement contract [MYP] for the DDG-51 Destroyer, while simultaneously requesting that Congress appropriate the necessary additional funds for that Destroyer in the amount of \$1,659,200,000 by listing it as its top unfunded priority. The Committee notes that this five-year MYP was authorized by the congressional defense committees in fiscal year 2018 at the request of the Navy, certified by the Under Secretary of Defense (Acquisition and Sustainment), and with cost estimates provided by the Director, Cost Assessment and Program Evaluation [CAPE]. Failure to fully budget for this MYP, therefore, implies a lack of understanding of the full five-year funding requirements, and creates an unnecessary risk to the predictable and stable funding required for this MYP.

The Committee is concerned that this continues a trend by the Navy to submit budgets to the Congress that deliberately underfund programs deemed by the Navy to be critical, with the expectation that the congressional appropriations committees will

restore funds for these programs within the budget allocation for the Department of Defense. For instance, in fiscal year 2021, the Navy's budget request underfunded the MYP for the VIRGINIA Class submarine that had been authorized in fiscal year 2018, requiring the congressional appropriations committees to provide approximately \$2,600,000,000 in additional funds for this MYP.

As a result of these repeated budgetary maneuvers, the Committee questions whether the Navy's budget requests accurately reflect the service's most important priorities. This is particularly concerning given the Navy's plans to initiate and ramp up several major acquisition programs in the near-term, including the COLUMBIA Class submarine, the Next Generation Air Dominance Family of Systems, the DDG(X) Destroyer, FFG, and SSN(X). At the same time, the Navy is struggling to manage cost on several major acquisition programs, including the COLUMBIA Class submarine, certain subsea and seabed warfare programs, and the TAO fleet oiler, revealing significant cost increases for each of these programs in the fiscal year 2022 budget submission.

The Committee directs the Comptroller General to review the Department of the Navy's and the CAPE's processes for identifying and budgeting funds required to fully fund MYPs during the Departments' programming, planning, and budgeting processes and to report back to the congressional defense committees no later than 90 days after enactment of this act. This report shall include an analysis on treatment of MYP funds for Navy programs in the fiscal year 2021 and fiscal year 2022 President's budget submissions.

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE

The Committee remains committed to ensuring that the Department of Defense acquisition workforce has the capacity, in both personnel and skills, needed to properly perform its mission and recommends funding, as requested, in the services' operation and maintenance and research, development, test and evaluation accounts; as well as in the Department of Defense Acquisition Workforce Account and Defense Working Capital Funds. Therefore, with the submission of the fiscal year 2023 President's budget request, the Committee directs the Service Acquisition Executives 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 2023 Future Years Defense Program. Further, the Service Financial Managers and Comptrollers of the Army, Navy, and Air Force are directed to certify, with submission of the fiscal year 2023 President's budget request, to the congressional defense committees, that these acquisition workforce requirements are fully funded in the fiscal year 2023 President's budget request. Finally, in order to maintain visibility into and oversight of funding for the defense acquisition workforce, these funds are designated as congressional special interest items for the purpose of the Base for Re-programming, DD Form 1414.

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 \$19,000,000,000 with submission of the fiscal year 2022 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 2022 to address these shortfalls, as identified in the tables of Committee Recommended Adjustments in this statement.

As previously stated, the Committee is concerned about 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 reiterates direction included in the Joint Explanatory Statement accompanying the Department of Defense Appropriations Act, 2021, and directs that any submission of unfunded requirements by the military services, defense agencies, and combatant commands with the fiscal year 2023 President's budget request be accompanied by updated requirements and programmatic and execution plans for unfunded requirements that received appropriations in fiscal year 2022. Further, the Committee directs the Assistant Secretaries (Financial Management and Comptroller) for the Air Force, Navy, and Army to incorporate in the congressional budget brief templates distinct programmatic and execution data for appropriations provided in the previous 3 fiscal years for unfunded requirements pertaining to the program/effort.

DEPARTMENT OF DEFENSE TEST INFRASTRUCTURE INVESTMENTS

The Committee notes that recent investments in next-generation weapons such hypersonics, directed energy, and space have not been accompanied by investments in the associated test infrastructure to demonstrate these capabilities under operationally relevant conditions against realistic threats. Therefore, the Committee recommends additional appropriations of \$505,000,000, as detailed in the tables of Committee Recommended Adjustments under the headings for Research, Development, Test and Evaluation, Navy; Research, Development, Test and Evaluation, Defense-Wide; and Operational Test and Evaluation, Defense, only for lab and test range upgrades for the following: Space, electromagnetic spectrum, hypersonics, directed energy, and targets.

Further, the Committee believes there is an opportunity to accelerate infrastructure improvements at the Nevada Test and Training Range, Point Mugu Sea Range, China Lake, and Joint Pacific Alaska Range Complex to provide peer-representative threat environments for 5th generation aircraft. Therefore, the Committee recommends additional appropriations of \$683,500,000, as detailed in the tables of Committee Recommended Adjustments under the

headings for Other Procurement, Air Force and Research, Development, Test, and Evaluation, Defense-Wide, only for the acquisition or modification of radar emulators and decoy systems.

The Committee directs that none of these funds may be obligated or expended until 30 days after the Director, Operational Test and Evaluation, in coordination with the Director, Test Resource Management Center provides a detailed spend plan to the congressional defense committees regarding obligation plans of these funds, to include any changes from previously identified funding requirements to the Committee and outyear funding requirements. Further, the Committee designates the additional appropriations for test range infrastructure as congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414).

MISSILE DEFENSE AGENCY

Congressional Communications.—The Committee notes its traditional strong, bi-partisan support for the Missile Defense Agency [MDA], its mission, and its workforce. Therefore, the Committee is disappointed by the deterioration in the timeliness and quality of communications by the Department of Defense and MDA, including the failure to convey in a timely manner an inability to execute appropriations provided for unfunded requirements; changes to acquisition strategies for appropriations provided for MDA priorities; and failure to follow explicit congressional direction with respect to funds designated as congressional special interest items. The Committee expects the Director, MDA, the Under Secretary of Defense (Research and Engineering), and the Deputy Secretary of Defense to improve the timeliness and wholeness of their communications with the Committee.

Missile Defense Agency Priorities and Unfunded Requirements.—The Committee recommends \$10,325,104,000 for Missile Defense Agency [MDA] activities in this bill for fiscal year 2022, an increase of \$1,412,099,000 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 adjusted acquisition programs.

Missile Defense Agency Acquisition Authorities.—The Committee directs that no adjustments may be made to the Missile Defense Agency's [MDA] acquisition authorities until 120 days after the Deputy Secretary of Defense, acting directly through the Director, MDA, briefs the congressional defense committees on any such proposed adjustments.

Launch Strategy for Hypersonic and Ballistic Tracking Space Sensor.—The fiscal year 2022 President's budget request includes \$268,811,000 for the Missile Defense Agency [MDA] in Research, Development, Test and Evaluation, Defense-Wide to continue the development of a Hypersonic and Ballistic Tracking Space Sensor [HBTSS]. This includes \$110,000,000 for MDA to launch 2 HBTSS satellites on a single launch vehicle in 2023. The Committee notes that this launch strategy is inconsistent with details provided in support of MDA's fiscal year 2021 request to provide an additional \$130,000,000 to continue HBTSS development, which was included in the Department of Defense Appropriations Act, 2021 (Public Law 116-260). At that time, MDA informed the Committee that

HBTSS payloads would be launched into orbit aboard the Space Development Agency's [SDA] Tranche 0 satellites in 2022/2023, thus not requiring additional funds for a separate launch by MDA.

The Committee is concerned by this change in acquisition strategy which was not briefed to the Committee until after enactment of the Department of Defense Appropriations Act, 2021 (Public Law 116–260). MDA and SDA each launching their own satellites reveals a lack of coordination and cooperation between SDA and MDA, poor oversight on the part of the Department of Defense's space acquisition enterprise, and waste of taxpayer dollars. However, the Committee is also aware that at this point, due to timing of contract awards and assembly of payloads, the impact on cost and schedule to revert to the original launch strategy would be high risk. Therefore, the Committee recommends full funding of MDA's HBTSS budget request in fiscal year 2022. However, the Committee directs that no funds available to the Department of Defense may be obligated or expended for a HBTSS Phase IIb modification for additional payloads or space vehicles, or a Phase IIc or a Phase III program in fiscal year 2022.

The Committee addresses additional concerns regarding duplication and overlap of space programs under the heading "Space Acquisitions" in the general overview of this statement.

Funding for Missile Defense Agency Test Events.—The Committee continues to strongly support regular and realistic testing of the ballistic missile defense system—to include persistent cyber operations, as coordinated with the Director, Operational Test and Evaluation—to prove out missile defense capabilities, increase engagement capability and capacity, and build warfighter confidence. However, the Committee remains concerned by the repeated volatility of the Missile Defense Agency's [MDA] annual test plans that consistently result 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 2022 budget request only for the specific test events at the funding levels identified in the supplemental test event budget briefing materials provided to the Committee, as modified by the table of Committee Recommended Adjustments accompanying the Research, Development, Test and Evaluation, Defense-Wide account in this explanatory statement. Further, as in fiscal year 2021, the Committee designates all such funding as congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414) and directs the Under Secretary of Defense (Comptroller) to certify in writing to the congressional defense committees with submission of the President's fiscal year 2023 budget request, and semi-annually thereafter until the period of availability of funds appropriated for MDA testing in fiscal year 2022 has expired, that the Director, MDA has complied with this direction.

AEGIS Ballistic Missile Defense.—The Committee notes emerging mass ballistic missile raid strategies and supports the development of vital propulsion technology and expansion of the controllable missile propulsion industrial base to defend against swarm attacks.

Defense of Guam.—The fiscal year 2022 President’s budget request includes \$138,300,000 in Research, Development, Test and Evaluation, Defense-Wide [RDDW] and \$40,000,000 in Procurement, Defense-Wide [PDW] to develop key system-agnostic enablers that would provide a baseline of capability to support a range of material solutions while the Department of Defense determines an architecture for the Defense of Guam. The Committee recommends an additional \$60,000,000 in RDDW and \$40,000,000 in PDW only to accelerate the development of such key enablers pending selection of a specific material solution for the Defense of Guam, and directs that none of these funds may be obligated or expended until 30 days after the Deputy Secretary of Defense, or her designee, briefs the congressional defense committees on a proposed spend plan and architecture.

Homeland Defense Radar-Hawaii.—The fiscal year 2022 President’s budget request includes no funds to continue acquisition of a Homeland Defense Radar on Hawaii [HDR–H]. The Committee notes that a discrimination radar on Hawaii is an important part of the architecture for U.S. homeland defense and that the Missile Defense Agency [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 \$41,000,000 only for HDR–H.

In addition, the Committee directs the Director, MDA, in consultation with the Commander, United States Indo-Pacific Command, to provide an updated brief to the congressional defense committees on the current and evolving threats, and the capability HDR–H provides against these threats not later than January 31, 2022. This briefing shall be provided at the unclassified and classified level.

JOINT STRIKE FIGHTER

F–35 Production and Sustainment.—The Committee understands that the current lot 12 through lot 14 contractual delivery dates are not executable due to production delays, and that the F–35 Program Executive Officer is rebaselining the delivery schedule to provide a smoother production profile through 2025. The Committee notes that this will delay the fielding of aircraft to the fleet, which currently projects 34 fewer aircraft than planned between 2020 and 2021. Therefore, while the Committee has typically supported the procurement of additional aircraft, as evident in prior year appropriations, the Committee sees the rebaseline as a necessary adjustment, and believes the fact-of-life realities do not justify supporting additional aircraft at this time.

Further, the Committee notes that the F–35 program has experienced significant maintenance challenges primarily resulting from power module failures combined with depot repair capacity issues. This is of significant concern to the Committee as it jeopardizes the operational availability of aircraft at a time when deliveries of new aircraft are reduced. The Committee believes it is necessary to expand the depot capacity and increase throughput of depot repair actions and therefore recommends an additional \$175,000,000 to accelerate the standup of depot activities in the Aircraft Procurement, Air Force account; \$175,000,000 for F135 spare engine power

modules, also in Aircraft Procurement, Air Force; and \$185,000,000 in the Operation and Maintenance, Air Force account for sustainment activities. Further, the Committee encourages the Program Executive Officer, F-35 to continue engagements with industry on potential solutions to increase the reliability of the power modules themselves.

F-35 Continuous Capability Development and Delivery.—The fiscal year 2022 President’s budget request includes \$1,983,100,000 in Air Force, Navy, and Marine Corps research and development funding for continuous F-35 capability development and delivery [C2D2], an increase of \$565,900,000 over amounts appropriated in fiscal year 2021. The Committee notes that per previous congressional direction, C2D2 efforts are delineated into no less than 10 distinct projects to provide greater transparency of funds execution, and directs continued adherence to this budget structure.

The Committee notes the following significant challenges to the C2D2 program with submission of the fiscal year 2022 President’s budget request: Cost growth of approximately 70 percent, schedule delays of the Technology Refresh 3 system, and a 3 year delay in the delivery of the complete Capability Increment #1 (formerly Block 4) capabilities. In addition, the Committee remains concerned that clearly quantifiable metrics for contract performance and deliverables of software-based capabilities remain inadequate and are not linked to prior year budget execution or the pending budget request. Given that F-35 modernization is planned using the C2D2 approach through 2035, the Committee is troubled by these developments. Therefore, with exception to the requested funding increase for C2D2 test and evaluation, the Committee does not support the requested C2D2 funding increase in fiscal year 2022. In addition, the Committee directs that with submission of the fiscal year 2023 President’s budget request, the Under Secretary of Defense (Acquisition and Sustainment) break out C2D2 from the existing F-35 acquisition program as a separate Major Defense Acquisition Program for oversight and reporting purposes.

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. Additionally, the Committee agrees with efforts by the Secretary of Defense and the Service Secretaries to evaluate and propose divestment of legacy systems and programs that no longer meet mission or security needs in order to make smart investment choices more in line with future operating concepts. However, despite the magnitude of these decisions, there has historically not been a clear crosswalk that highlights detailed funding implications of such proposals to the budget justification materials submitted with the President’s budget request.

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 di-

rects the Assistant Secretaries (Financial Management and Comptroller) for the Army, Navy, and Air Force to submit a budget exhibit that will display the savings built into the budget for retirements and divestitures to be submitted with each President's budget request. This new exhibit shall be included in the justification materials with the fiscal year 2023 President's budget request and shall include, but not be limited to, the following information (columns in the display):

- Divestment title (item proposed for divestiture/retirement)
- Quantity (if applicable, showing how many of a particular item is being proposed for divestiture or retirement)
- Appropriation
- Line Item
- Budget Year savings (\$ in thousands)
- Budget Year +1 savings (\$ in thousands)
- Budget Year +2 savings (\$ in thousands)
- Budget Year +3 savings (\$ in thousands)
- Budget Year +4 savings (\$ in thousands)
- Total Future Years Defense Program [FYDP] savings (\$ in thousands)
- Justification and Explanation of Changes (This section shall include a brief description and an impact statement of the decision to divest each platform. It shall also include an explanation of changes when comparing the current President's budget request savings estimates to prior President's budget request savings estimates and the factors that drove any changes to previous projections.)
- Insert row showing the total savings for each fiscal year and the FYDP by divestment title
- Include a row at the bottom of this exhibit showing the grand total dollar savings for all divestitures/retirements by fiscal year and the FYDP for each particular military service

The Committee notes that during the budget review of the fiscal year 2022 President's budget request, the Air Force and Navy did provide the above information in response to questions seeking more details regarding the divestitures/retirements proposed for fiscal year 2022. However, the information provided suggested inadequate coordination between the active, National Guard and reserve components. Therefore, the Committee directs that all service components be engaged in the formulation of the divestiture/retirement budget exhibits in order to fully align all savings proposals by appropriation.

READINESS/OPERATIONAL SHORTFALLS

The Committee recommends additional funding for "Readiness/Operational shortfalls" in various operation and maintenance accounts. 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 Committees on Appropriations of the House of Representatives and the Senate 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.

REVISED ECONOMIC ASSUMPTIONS

The Committee recommends a new provision to offset cost factors that have increased since the formulation of the fiscal year 2022 President's budget request. The additional funding shall be used for incremental costs due to increased inflation or other pricing indexes and shall not be used to fix program baseline shortfalls or fund other unforeseen requirements. The Under Secretary of Defense (Comptroller) is directed to work with the Committees on Appropriations of the House of Representatives and the Senate to refine pricing shortfall estimates caused by revised economic assumptions through the first quarter of fiscal year 2022.

INTEGRATED VISUAL AUGMENTATION SYSTEM

The fiscal year 2022 President's budget request for the Integrated Visual Augmentation System [IVAS] includes \$16,633,000 in research, development, test and evaluation funding and \$853,864,000 in procurement funding as the program was slated to complete its Initial Operational Test and Evaluation [IOT&E] with a subsequent full rate production decision in the fourth quarter of fiscal year 2021.

Throughout its development process, the Army has conducted regular soldier engagements or soldier touch points [STP] that allow soldiers to test IVAS in simulated training exercises. These soldier touch points deliver real-time feedback to program officials and the prime vendor in the hope of shortening development and fielding timelines while also providing a product that the soldiers will use. Recently, after reviewing comments from STP-4, the Department of the Army updated the Committee on its decision to delay IOT&E due to technical challenges with both software and hardware. As a result, the Army is currently conducting a robust program assessment and has indicated that it intends to provide Congress an updated development plan along with new production laydown in the coming months. The Committee understands the Army remains committed to the program and is committed to seeing the technical challenges resolved prior to fielding IVAS to operational units. In light of these developments, the Committee has transferred \$75,000,000 to Research, Development, Test and Evaluation, Army to help the Army address any development shortfalls in fiscal year 2022. The Committee also proposes to reduce the procurement request by \$778,864,000 without prejudice to the program while the Army conducts its review. Prior year procurement funding remains available should the Army be able to reach a production decision based on the results of future test events.

The Committee directs the Program Executive Officer, Soldier, not later than 30 days following enactment of this Act, to submit a revised development plan to the Committees on Appropriations of the House of Representatives and the Senate along with the associated resourcing requirements to resolve the existing challenges.

SPACE ACQUISITIONS

Beginning with the fiscal year 2021 President's budget request, the Department of the Air Force established separate appropriations to consolidate resources for Space Force operations and re-

lated development and acquisition programs. The Committee understands that multiple military services and agencies across the Department of Defense retain equities in acquisition programs tied to the space domain and that consolidation of space based acquisition programs is an ongoing endeavor. However, the Committee is concerned that delaying consolidation of space based acquisition programs under the Space Force may result in inefficiencies across the Department of Defense.

Therefore, the Committee directs the Secretary of Defense, in coordination with the Secretaries of the military departments and Directors of the relevant defense agencies to submit a report to the congressional defense committees, not later than 90 days after enactment of this act, which identifies the space-related development and acquisition programs across the Department. This report shall include a list of programs for each service or agency and the executing program office; a brief description of the capability provided; a determination of whether the program will be transferred to the Space Force; timeline for transfer; and explanation of the rationale leading to the transfer decision. In addition, the report shall include an addendum that includes a table detailing the Future Years Defense Program resource profile by fiscal year for each program. The addendum shall include each program broken out by appropriation, budget line number, and the program element or budget line item. A classified annex shall accompany the unclassified report to capture the entirety of space-related development and acquisition programs.

INCENTIVE FEES AND CONTRACTOR PERFORMANCE

The Committee notes that Department of Defense contracts can include provisions that provide for the payment of award fees or bonuses, which are intended to be available to contractors for work that meets U.S. Government requirements. The Committee is aware that despite Federal regulations restricting payment of award fees to contractors with unsatisfactory performance measured against cost, schedule, and technical performance parameters, the Department of Defense has issued bonuses in such cases. The Committee is concerned by this practice and the impact it will have on increasing the cost of defense programs or delivery of satisfactory end-items.

Therefore, not later than 180 days after enactment of this act, the Under Secretary of Defense for Acquisition and Sustainment is directed to deliver to the congressional defense committees a report on the Department's payment of fees and bonuses to contractors with documented performance issues. This report shall cover the previous two fiscal years for each military service and Defense agency and include at a minimum: an analysis of the number of contracts that have paid awards or bonuses to a contractor documented to be delivering unsatisfactory performance; the amount of awards or bonuses that have paid out under such circumstances; the total percentage of such awards and bonuses paid out, as a portion of total awards and bonuses over the same timeframe; an analysis of the Department's policy governing payment of awards and bonuses under such circumstances; recommendations for any changes to authorities or policy that would eliminate payments

under such circumstances; and a plan to implement any recommendations.

MISSION PARTNER ENVIRONMENT

The Mission Partner Environment [MPE] enables the Department of Defense, including the combatant commands, military services, and agencies, to equip United States forces with a reliable and protected network package that is configurable for classified and unclassified data. The Committee is aware of the importance of the MPE to facilitate the secure sharing of operational information for collaboration between the United States and our mission partners and coalition allies and has accordingly provided additional funding for this program in fiscal year 2022.

In February 2019, the Secretary of the Air Force was designated as the Department of Defense's Executive Agent for MPE and is therefore responsible to lead MPE capability development and implementation for the combatant commands. However, the Committee is concerned that validated mission-based interoperability requirements have not been sufficiently prioritized for timely implementation, particularly within the United States Indo-Pacific Command's area of responsibility.

In order to gain further insight into this program, the Committee directs the Secretary of the Air Force to provide a report on Mission Partnership Environment implementation not later than 90 days after the enactment of this act. The report shall include, but not be limited to:

- Enacted MPE funding levels by appropriation and fiscal year covering fiscal year 2019–fiscal year 2022 (including a breakout of any funding within the request or provided through a congressional increase);
- For each appropriation in the funding chart, an explanation of what was purchased, the organization it was purchased for (which combatant command, military service or defense agency for example), the dollar amounts in fiscal years 2019–21 (each year broken out and should represent actuals), and then a spend plan for fiscal year 2022;
- An explanation of the factors driving any differences between the enacted and actual funding levels in any appropriation and/or fiscal year; and
- An overarching program schedule and funding profile by fiscal year for MPE implementation across the Future Years Defense Program. This section should be coordinated with other stakeholders such as the Joint Staff, the DoD Chief Information Officer, the Under Secretary of Defense for Intelligence and Security, and the Under Secretary of Defense for Policy.

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 2022 budget requests a total of \$167,285,095,000 for military personnel appropriations. This request funds an Active component end strength of 1,346,400 and a Reserve component end strength of 799,500.

SUMMARY OF COMMITTEE ACTION

The Committee recommends military personnel appropriations totaling \$166,738,382,000 for fiscal year 2022. This is \$546,713,000 below the budget estimate.

Committee recommended military personnel appropriations for fiscal year 2022 are summarized below:

SUMMARY OF MILITARY PERSONNEL APPROPRIATIONS

[In thousands of dollars]

Account	2022 budget estimate	Committee recommendation	Change from budget estimate
Military Personnel:			
Military Personnel, Army	47,973,824	47,849,194	- 124,630
Military Personnel, Navy	35,496,879	35,559,079	+ 62,200
Military Personnel, Marine Corps	14,748,337	14,593,112	- 155,225
Military Personnel, Air Force	35,047,901	35,132,419	+ 84,518
Reserve Personnel:			
Reserve Personnel, Army	5,229,805	5,077,037	- 152,768
Reserve Personnel, Navy	2,316,934	2,299,539	- 17,395
Reserve Personnel, Marine Corps	881,909	810,869	- 71,040
Reserve Personnel, Air Force	2,386,013	2,296,985	- 89,028
National Guard Personnel:			
National Guard Personnel, Army	9,051,344	9,035,677	- 15,667
National Guard Personnel, Air Force	4,814,974	4,747,296	- 67,678
Tricare Accrual (permanent, indefinite authority)	9,337,175	9,337,175	.....
Total	167,285,095	166,738,382	- 546,713

Committee recommended end strengths for fiscal year 2022 are summarized below:

RECOMMENDED END STRENGTH

	2021 authorization	2022 budget estimate	Committee recommendation	Change from budget estimate
Active:				
Army	485,900	485,000	485,000	.....
Navy	347,800	346,200	346,200	.....
Marine Corps	181,200	178,500	178,500	.....
Air Force	333,475	328,300	328,300	.....
Space Force .....	.....	8,400	8,400	.....
Subtotal	1,348,375	1,346,400	1,346,400	.....
Selected Reserve:				
Army Reserve	189,800	189,500	189,500	.....
Navy Reserve	58,800	58,600	58,600	.....
Marine Corps Reserve	38,500	36,800	36,800	.....
Air Force Reserve	70,300	70,300	70,300	.....
Army National Guard	336,500	336,000	336,000	.....
Air National Guard	108,100	108,300	108,300	.....
Subtotal	802,000	799,500	799,500	.....
TOTAL	2,150,375	2,145,900	2,145,900	.....

REPROGRAMMING GUIDANCE FOR MILITARY PERSONNEL ACCOUNTS

The Committee directs the Secretary of Defense to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2022 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 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.

MILITARY PERSONNEL OVERVIEW

Strength Reporting.—The Committee directs the Service Secretaries to provide monthly strength reports for all components to the Committees on Appropriations of the House of Representatives and the Senate. The first report shall provide actual baseline end strength for officer, enlisted, and cadet personnel, and the total component. The second report shall provide the monthly end of

year projection for average strength for officer, enlisted, and cadet personnel using the formula in the Department of Defense Financial Management Regulation Volume 2A, Chapter Two. For the active components, this report shall break out average strength data by base and direct war and enduring costs, and differentiate between the active and reserve components.

Reserve Component Budget Reporting.—The Committee continues its requirement for the Department of Defense 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 and Public Health Direct Training Services for the National Guard.—The Committee recognizes the valuable support universities and hospitals provide by offering civilian-based emergency response trauma and critical care training including public health, bio-environmental, and biomedical instruction to sustain capabilities of the National Guard Enhanced Response Forces Packages, National Guard Homeland Response Forces, National Guard Civil Support Teams, and other National Guard medical conversion/readiness requirements.

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. 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.

Food Insecurity.—The Committee is concerned by recent statistics on the number of servicemembers and military families experiencing food insecurity. Studies have found that one in eight military families were food insecure prior to the COVID-19 pandemic and this number has now grown to one in five. The Committee is also concerned by the lack of data from the Department of Defense on food insecurity among servicemembers and their families, and the apparent disparity between Department of Defense data, as characterized by senior leaders, and the findings of assistance organizations and polling experts. In addition, recent analyses of servicemember use of the Supplemental Nutrition Assistance Program [SNAP] are insufficient for accurately assessing the scope of military food insecurity, as servicemembers often face barriers to the program's eligibility. Research should instead be expanded to provide a more comprehensive assessment of food insecurity among servicemembers and their families.

Therefore, the Committee directs the Secretary of Defense to provide two reports relating to food insecurity. The first report shall detail the prevalence of servicemembers and families who report experiencing food insecurity. It shall include the use of food assistance programs to include Federal nutrition programs like SNAP, free and reduced lunches for dependents, as well as local food banks; the barriers that exist for low-income servicemembers in

qualifying for Federal nutrition programs; the conditions causing food insecurity among servicemembers; the impact of food insecurity on military readiness and military retention; and Department of Defense programs in place to address food insecurity. Concurrently in a second report, the Secretary of Defense shall analyze the potential for a future large-scale crisis, such as a pandemic, to exacerbate food insecurity among servicemembers and military families. It shall include the actions the Secretary of Defense can undertake in such a crisis to mitigate those impacts by surging additional assistance through entities of the Department of Defense, including the commissary system. The Committee directs the Secretary of Defense to provide these reports to the Committees on Appropriations of the House of Representatives and the Senate not later than 180 days after enactment of this act.

MILITARY PERSONNEL, ARMY

Budget estimate, 2022 \$47,973,824,000
 Committee recommendation 47,849,194,000

The Committee recommends an appropriation of \$47,849,194,000. This is \$124,630,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, ARMY			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	8,209,572	8,209,572	.....
10	RETIRED PAY ACCRUAL	2,846,910	2,846,910	.....
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	83,231	83,231	.....
25	BASIC ALLOWANCE FOR HOUSING	2,366,346	2,366,346	.....
30	BASIC ALLOWANCE FOR SUBSISTENCE	318,174	318,174	.....
35	INCENTIVE PAYS	84,496	84,496	.....
40	SPECIAL PAYS	408,728	408,728	.....
45	ALLOWANCES	208,786	208,786	.....
50	SEPARATION PAY	62,128	62,128	.....
55	SOCIAL SECURITY TAX	626,400	626,400	.....
	TOTAL, BUDGET ACTIVITY 1	15,214,771	15,214,771	.....
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	15,218,575	15,218,575	.....
65	RETIRED PAY ACCRUAL	5,277,193	5,277,193	.....
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	185,285	185,285	.....
80	BASIC ALLOWANCE FOR HOUSING	5,026,104	5,026,104	.....
85	INCENTIVE PAYS	90,396	90,396	.....
90	SPECIAL PAYS	886,738	886,738	.....
95	ALLOWANCES	756,814	756,814	.....
100	SEPARATION PAY	276,456	276,456	.....
105	SOCIAL SECURITY TAX	1,164,221	1,164,221	.....
	TOTAL, BUDGET ACTIVITY 2	28,881,782	28,881,782	.....
	ACTIVITY 3: PAY AND ALLOWANCES OF CADETS			
110	ACADEMY CADETS	94,375	94,375	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115	BASIC ALLOWANCE FOR SUBSISTENCE	1,406,620	1,406,620	.....
120	SUBSISTENCE-IN-KIND	824,921	824,921	.....
	TOTAL, BUDGET ACTIVITY 4	2,231,541	2,231,541	.....
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	131,239	131,239	.....
130	TRAINING TRAVEL	145,625	145,625	.....
135	OPERATIONAL TRAVEL	409,167	409,167	.....
140	ROTATIONAL TRAVEL	648,299	648,299	.....
145	SEPARATION TRAVEL	214,571	214,571	.....
150	TRAVEL OF ORGANIZED UNITS	2,407	2,407	.....
155	NON-TEMPORARY STORAGE	9,037	9,037	.....
160	TEMPORARY LODGING EXPENSE	49,868	49,868	.....
	TOTAL, BUDGET ACTIVITY 5	1,610,213	1,610,213	.....
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170	APPREHENSION OF MILITARY DESERTERS	245	245	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	3,442	3,442	.....
180	DEATH GRATUITIES	49,000	49,000	.....
185	UNEMPLOYMENT BENEFITS	69,125	69,125	.....
195	EDUCATION BENEFITS	15	15	.....
200	ADOPTION EXPENSES	426	426	.....
210	TRANSPORTATION SUBSIDY	11,736	11,736	.....
215	PARTIAL DISLOCATION ALLOWANCE	78	78	.....
216	SGLI EXTRA HAZARD PAYMENTS	6,650	6,650	.....
217	RESERVE OFFICERS TRAINING CORPS (ROTC)	104,727	104,727	.....
218	JUNIOR ROTC	33,992	33,992	.....
	TOTAL, BUDGET ACTIVITY 6	279,436	279,436	.....
	LESS REIMBURSABLES	- 338,294	- 338,294	.....
	UNDISTRIBUTED ADJUSTMENT		- 276,830	- 276,830
	PROGRAM INCREASE: BASIC ALLOWANCE FOR HOUSING		152,200	+ 152,200
	TOTAL, TITLE I, MILITARY PERSONNEL, ARMY	47,973,824	47,849,194	- 124,630
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	2,622,860	2,622,860	.....
	TOTAL, MILITARY PERSONNEL, ARMY	50,596,684	50,472,054	- 124,630

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate .....	.....	- 276,830	- 276,830
UNDIST	Program increase: Basic Allowance for Housing .....	.....	152,200	+ 152,200

MILITARY PERSONNEL, NAVY

Budget estimate, 2022 \$35,496,879,000
 Committee recommendation 35,559,079,000

The Committee recommends an appropriation of \$35,559,079,000. This is \$62,200,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, NAVY			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	4,927,327	4,927,327	.....
10	RETIRED PAY ACCRUAL	1,722,160	1,722,160	.....
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	93,769	93,769	.....
25	BASIC ALLOWANCE FOR HOUSING	1,772,341	1,772,341	.....
30	BASIC ALLOWANCE FOR SUBSISTENCE	184,764	184,764	.....
35	INCENTIVE PAYS	158,262	158,262	.....
40	SPECIAL PAYS	471,491	471,491	.....
45	ALLOWANCES	118,872	118,872	.....
50	SEPARATION PAY	45,642	45,642	.....
55	SOCIAL SECURITY TAX	375,786	375,786	.....
	TOTAL, BUDGET ACTIVITY 1	9,870,414	9,870,414	.....
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	11,273,463	11,273,463	.....
65	RETIRED PAY ACCRUAL	3,939,197	3,939,197	.....
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	158,537	158,537	.....
80	BASIC ALLOWANCE FOR HOUSING	5,389,737	5,389,737	.....
85	INCENTIVE PAYS	117,064	117,064	.....
90	SPECIAL PAYS	1,094,765	1,094,765	.....
95	ALLOWANCES	553,624	553,624	.....
100	SEPARATION PAY	106,949	106,949	.....
105	SOCIAL SECURITY TAX	862,420	862,420	.....
	TOTAL, BUDGET ACTIVITY 2	23,495,756	23,495,756	.....
	ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN			
110	MIDSHIPMEN	96,001	96,001	.....
	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115	BASIC ALLOWANCE FOR SUBSISTENCE	929,731	929,731	.....
120	SUBSISTENCE-IN-KIND	440,871	440,871	.....
121	FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE	5	5	.....
	TOTAL, BUDGET ACTIVITY 4	1,370,607	1,370,607	.....
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	96,429	96,429	.....
130	TRAINING TRAVEL	141,196	141,196	.....
135	OPERATIONAL TRAVEL	285,424	285,424	.....
140	ROTATIONAL TRAVEL	241,054	241,054	.....
145	SEPARATION TRAVEL	164,724	164,724	.....
150	TRAVEL OF ORGANIZED UNITS	30,229	30,229	.....
155	NON-TEMPORARY STORAGE	15,647	15,647	.....
160	TEMPORARY LODGING EXPENSE	20,926	20,926	.....
	TOTAL, BUDGET ACTIVITY 5	995,629	995,629	.....
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170	APPREHENSION OF MILITARY DESERTERS	41	41	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	1,144	1,144	.....
180	DEATH GRATUITIES	22,400	22,400	.....
185	UNEMPLOYMENT BENEFITS	48,897	48,897	.....
195	EDUCATION BENEFITS	1,638	1,638	.....
200	ADOPTION EXPENSES	185	185	.....
210	TRANSPORTATION SUBSIDY	2,906	2,906	.....
215	PARTIAL DISLOCATION ALLOWANCE	40	40	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
216	SGLI EXTRA HAZARD PAYMENTS	488	488	.....
217	RESERVE OFFICERS TRAINING CORPS (ROTC)	23,072	23,072	.....
218	JUNIOR ROTC	15,891	15,891	.....
	TOTAL, BUDGET ACTIVITY 6	116,702	116,702	.....
	LESS REIMBURSABLES	- 448,230	- 448,230	.....
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 64,900	- 64,900
	PROGRAM INCREASE: BASIC ALLOWANCE FOR HOUSING .....	.....	127,100	+ 127,100
	TOTAL, TITLE I, MILITARY PERSONNEL, NAVY	35,496,879	35,559,079	+ 62,200
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	1,888,336	1,888,336	.....
	TOTAL, MILITARY PERSONNEL, NAVY	37,385,215	37,447,415	+ 62,200

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate .....	.....	- 64,900	- 64,900
UNDIST	Program increase: Basic Allowance for Housing .....	.....	127,100	+ 127,100

MILITARY PERSONNEL, MARINE CORPS

Budget estimate, 2022 \$14,748,337,000
 Committee recommendation 14,593,112,000

The Committee recommends an appropriation of \$14,593,112,000. This is \$155,225,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, MARINE CORPS			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	1,822,259	1,822,259	.....
10	RETIRED PAY ACCRUAL	638,312	638,312	.....
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	29,328	29,328	.....
25	BASIC ALLOWANCE FOR HOUSING	584,652	584,652	.....
30	BASIC ALLOWANCE FOR SUBSISTENCE	71,744	71,744	.....
35	INCENTIVE PAYS	53,379	53,379	.....
40	SPECIAL PAYS	6,111	6,111	.....
45	ALLOWANCES	34,778	34,778	.....
50	SEPARATION PAY	15,534	15,534	.....
55	SOCIAL SECURITY TAX	136,029	136,029	.....
	TOTAL, BUDGET ACTIVITY 1	3,392,126	3,392,126	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	5,419,211	5,419,211	.....
65	RETIRED PAY ACCRUAL	1,897,892	1,897,892	.....
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	122,101	122,101	.....
80	BASIC ALLOWANCE FOR HOUSING	1,619,516	1,619,516	.....
85	INCENTIVE PAYS	8,359	8,359	.....
90	SPECIAL PAYS	194,305	194,305	.....
95	ALLOWANCES	297,513	297,513	.....
100	SEPARATION PAY	120,018	120,018	.....
105	SOCIAL SECURITY TAX	414,220	414,220	.....
	TOTAL, BUDGET ACTIVITY 2	10,093,135	10,093,135	.....
	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115	BASIC ALLOWANCE FOR SUBSISTENCE	424,809	424,809	.....
120	SUBSISTENCE-IN-KIND	358,425	358,425	.....
121	FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE	10	10	.....
	TOTAL, BUDGET ACTIVITY 4	783,244	783,244	.....
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	55,547	55,547	.....
130	TRAINING TRAVEL	17,705	17,705	.....
135	OPERATIONAL TRAVEL	161,828	161,828	.....
140	ROTATIONAL TRAVEL	116,628	116,628	.....
145	SEPARATION TRAVEL	79,435	79,435	.....
150	TRAVEL OF ORGANIZED UNITS	734	734	.....
155	NON-TEMPORARY STORAGE	12,156	12,156	.....
160	TEMPORARY LODGING EXPENSE	2,461	2,461	.....
165	OTHER	2,231	2,231	.....
	TOTAL, BUDGET ACTIVITY 5	448,725	448,725	.....
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170	APPREHENSION OF MILITARY DESERTERS	234	234	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	124	124	.....
180	DEATH GRATUITIES	13,000	13,000	.....
185	UNEMPLOYMENT BENEFITS	39,643	39,643	.....
200	ADOPTION EXPENSES	94	94	.....
210	TRANSPORTATION SUBSIDY	1,475	1,475	.....
215	PARTIAL DISLOCATION ALLOWANCE	90	90	.....
216	SGLI EXTRA HAZARD PAYMENTS	1,964	1,964	.....
218	JUNIOR ROTC	3,889	3,889	.....
	TOTAL, BUDGET ACTIVITY 6	60,513	60,513	.....
	LESS REIMBURSABLES	-29,406	-29,406	.....
	UNDISTRIBUTED ADJUSTMENT		-174,025	-174,025
	PROGRAM INCREASE: BASIC ALLOWANCE FOR HOUSING		18,800	+ 18,800
	TOTAL, TITLE I, MILITARY PERSONNEL, MARINE CORPS	14,748,337	14,593,112	-155,225
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	993,398	993,398	.....
	TOTAL, MILITARY PERSONNEL, MARINE CORPS	15,741,735	15,586,510	-155,225

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate .....	.....	- 174,025	- 174,025
UNDIST	Program increase: Basic Allowance for Housing .....	.....	18,800	+ 18,800

MILITARY PERSONNEL, AIR FORCE

Budget estimate, 2022 \$35,047,901,000
 Committee recommendation 35,132,419,000

The Committee recommends an appropriation of \$35,132,419,000. This is \$84,518,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	MILITARY PERSONNEL, AIR FORCE			
	ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5	BASIC PAY	5,921,052	5,921,052	.....
10	RETIRED PAY ACCRUAL	2,051,100	2,051,100	.....
11	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	74,304	74,304	.....
25	BASIC ALLOWANCE FOR HOUSING	1,741,048	1,741,048	.....
30	BASIC ALLOWANCE FOR SUBSISTENCE	219,395	219,395	.....
35	INCENTIVE PAYS	385,666	385,666	.....
40	SPECIAL PAYS	358,094	358,094	.....
45	ALLOWANCES	129,427	129,427	.....
50	SEPARATION PAY	39,320	39,320	.....
55	SOCIAL SECURITY TAX	452,226	452,226	.....
	TOTAL, BUDGET ACTIVITY 1	11,371,632	11,371,632	.....
	ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60	BASIC PAY	10,894,939	10,894,939	.....
65	RETIRED PAY ACCRUAL	3,779,181	3,779,181	.....
66	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	110,413	110,413	.....
80	BASIC ALLOWANCE FOR HOUSING	4,460,507	4,460,507	.....
85	INCENTIVE PAYS	66,323	66,323	.....
90	SPECIAL PAYS	388,852	388,852	.....
95	ALLOWANCES	623,044	623,044	.....
100	SEPARATION PAY	105,298	105,298	.....
105	SOCIAL SECURITY TAX	833,463	833,463	.....
	TOTAL, BUDGET ACTIVITY 2	21,262,020	21,262,020	.....
	ACTIVITY 3: PAY AND ALLOWANCES OF CADETS			
110	ACADEMY CADETS	88,069	88,069	.....
	ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115	BASIC ALLOWANCE FOR SUBSISTENCE	1,183,075	1,183,075	.....
120	SUBSISTENCE-IN-KIND	273,607	273,607	.....
	TOTAL, BUDGET ACTIVITY 4	1,456,682	1,456,682	.....
	ACTIVITY 5: PERMANENT CHANGE OF STATION			
125	ACCESSION TRAVEL	97,861	97,861	.....
130	TRAINING TRAVEL	57,592	57,592	.....
135	OPERATIONAL TRAVEL	353,015	353,015	.....
140	ROTATIONAL TRAVEL	489,495	489,495	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
145	SEPARATION TRAVEL	144,714	144,714	.....
150	TRAVEL OF ORGANIZED UNITS	2,682	2,682	.....
155	NON-TEMPORARY STORAGE	27,039	27,039	.....
160	TEMPORARY LODGING EXPENSE	35,715	35,715	.....
	TOTAL, BUDGET ACTIVITY 5	1,208,113	1,208,113	.....
	ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170	APPREHENSION OF MILITARY DESERTERS	29	29	.....
175	INTEREST ON UNIFORMED SERVICES SAVINGS	2,065	2,065	.....
180	DEATH GRATUITIES	17,500	17,500	.....
185	UNEMPLOYMENT BENEFITS	26,111	26,111	.....
195	EDUCATION BENEFITS	16	16	.....
200	ADOPTION EXPENSES	416	416	.....
210	TRANSPORTATION SUBSIDY	2,800	2,800	.....
215	PARTIAL DISLOCATION ALLOWANCE	783	783	.....
216	SGLI EXTRA HAZARD PAYMENTS	4,981	4,981	.....
217	RESERVE OFFICERS TRAINING CORPS (ROTC)	44,585	44,585	.....
218	JUNIOR ROTC	18,783	18,783	.....
	TOTAL, BUDGET ACTIVITY 6	118,069	118,069	.....
	LESS REIMBURSABLES	- 456,684	- 456,684	.....
	UNDISTRIBUTED ADJUSTMENT		- 146,695	- 146,695
	PROGRAM INCREASE: BASIC ALLOWANCE FOR HOUSING		231,213	+ 231,213
	TOTAL, TITLE I, MILITARY PERSONNEL, AIR FORCE ..	35,047,901	35,132,419	+ 84,518
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	1,823,940	1,823,940	.....
	TOTAL, MILITARY PERSONNEL, AIR FORCE	36,871,841	36,956,359	+ 84,518

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate .....	.....	- 146,695	- 146,695
UNDIST	Program increase: Basic Allowance for Housing .....	.....	231,213	+ 231,213

RESERVE PERSONNEL, ARMY

Budget estimate, 2022 \$5,229,805,000
 Committee recommendation 5,077,037,000

The Committee recommends an appropriation of \$5,077,037,000. This is \$152,768,000 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	2022 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)	1,676,861	1,676,861	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	56,123	56,123	.....
30	PAY GROUP F TRAINING (RECRUITS)	217,116	217,116	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	5,006	5,006	.....
60	MOBILIZATION TRAINING	4,333	4,333	.....
70	SCHOOL TRAINING	236,971	236,971	.....
80	SPECIAL TRAINING	368,618	368,618	.....
90	ADMINISTRATION AND SUPPORT	2,520,000	2,520,000	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	23,447	23,447	.....
100	EDUCATION BENEFITS	18,122	18,122	.....
120	HEALTH PROFESSION SCHOLARSHIP	64,313	64,313	.....
130	OTHER PROGRAMS (ADMIN & SUPPORT)	38,895	38,895	.....
TOTAL, BUDGET ACTIVITY 1		5,229,805	5,229,805	.....
UNDISTRIBUTED ADJUSTMENT			- 152,768	- 152,768
TOTAL, TITLE I, RESERVE PERSONNEL, ARMY		5,229,805	5,077,037	- 152,768
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..		459,994	459,994	.....
TOTAL, RESERVE PERSONNEL, ARMY		5,689,799	5,537,031	- 152,768

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate		- 152,768	- 152,768

RESERVE PERSONNEL, NAVY

Budget estimate, 2022 \$2,316,934,000
 Committee recommendation 2,299,539,000

The Committee recommends an appropriation of \$2,299,539,000. This is \$17,395,000 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	2022 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)	759,809	759,809	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	8,672	8,672	.....
30	PAY GROUP F TRAINING (RECRUITS)	51,024	51,024	.....
60	MOBILIZATION TRAINING	13,289	13,289	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
70	SCHOOL TRAINING	64,775	64,775	.....
80	SPECIAL TRAINING	151,665	151,665	.....
90	ADMINISTRATION AND SUPPORT	1,201,916	1,201,916	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	6,330	6,330	.....
100	EDUCATION BENEFITS	76	76	.....
120	HEALTH PROFESSION SCHOLARSHIP	59,378	59,378	.....
	TOTAL, BUDGET ACTIVITY 1	2,316,934	2,316,934	.....
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 17,395	- 17,395
	TOTAL, TITLE I, RESERVE PERSONNEL, NAVY	2,316,934	2,299,539	- 17,395
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	160,129	160,129	.....
	TOTAL, RESERVE PERSONNEL, NAVY	2,477,063	2,459,668	- 17,395

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate .....	.....	- 17,395	- 17,395

RESERVE PERSONNEL, MARINE CORPS

Budget estimate, 2022 \$881,909,000
 Committee recommendation 810,869,000

The Committee recommends an appropriation of \$810,869,000. This is \$71,040,000 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	2022 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)	289,423	289,423	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	48,270	48,270	.....
30	PAY GROUP F TRAINING (RECRUITS)	149,202	149,202	.....
60	MOBILIZATION TRAINING	2,582	2,582	.....
70	SCHOOL TRAINING	24,192	24,192	.....
80	SPECIAL TRAINING	58,744	58,744	.....
90	ADMINISTRATION AND SUPPORT	291,551	291,551	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	5,291	5,291	.....
95	PLATOON LEADER CLASS	8,973	8,973	.....
100	EDUCATION BENEFITS	3,681	3,681	.....
	TOTAL, BUDGET ACTIVITY 1	881,909	881,909	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	UNDISTRIBUTED ADJUSTMENT		- 71,040	- 71,040
	TOTAL, TITLE I, RESERVE PERSONNEL, MARINE CORPS	881,909	810,869	- 71,040
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	85,716	85,716	.....
	TOTAL, RESERVE PERSONNEL, MARINE CORPS	967,625	896,585	- 71,040

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate		- 71,040	- 71,040

RESERVE PERSONNEL, AIR FORCE

Budget estimate, 2022 \$2,386,013,000
 Committee recommendation 2,296,985,000

The Committee recommends an appropriation of \$2,296,985,000. This is \$89,028,000 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	2022 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)	735,341	735,341	.....
20	PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	112,532	112,532	.....
30	PAY GROUP F TRAINING (RECRUITS)	68,252	68,252	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	4,235	4,235	.....
60	MOBILIZATION TRAINING	599	599	.....
70	SCHOOL TRAINING	197,290	197,290	.....
80	SPECIAL TRAINING	357,457	357,457	.....
90	ADMINISTRATION AND SUPPORT	827,431	827,431	.....
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	6,289	6,289	.....
100	EDUCATION BENEFITS	12,845	12,845	.....
120	HEALTH PROFESSION SCHOLARSHIP	60,895	60,895	.....
130	OTHER PROGRAMS (ADMIN & SUPPORT)	2,847	2,847	.....
	TOTAL, BUDGET ACTIVITY 1	2,386,013	2,386,013	.....
	UNDISTRIBUTED ADJUSTMENT		- 89,028	- 89,028
	TOTAL, TITLE I, RESERVE PERSONNEL, AIR FORCE ..	2,386,013	2,296,985	- 89,028

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	168,959	168,959	.....
	TOTAL, RESERVE PERSONNEL, AIR FORCE	2,554,972	2,465,944	- 89,028

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	Revised budget estimate .....	.....	- 89,028	- 89,028

NATIONAL GUARD PERSONNEL, ARMY

Budget estimate, 2022 \$9,051,344,000
 Committee recommendation 9,035,677,000

The Committee recommends an appropriation of \$9,035,677,000. This is \$15,667,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	NATIONAL GUARD PERSONNEL, ARMY			
10	ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
	PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48)	2,746,281	2,746,281	.....
30	PAY GROUP F TRAINING (RECRUITS)	561,111	561,111	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	46,286	46,286	.....
70	SCHOOL TRAINING	543,332	543,332	.....
80	SPECIAL TRAINING	822,161	843,861	+ 21,700
90	ADMINISTRATION AND SUPPORT	4,241,094	4,244,094	+ 3,000
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	41,514	41,514	.....
100	EDUCATION BENEFITS	49,565	49,565	.....
	TOTAL, BUDGET ACTIVITY 1	9,051,344	9,076,044	+ 24,700
	UNDISTRIBUTED ADJUSTMENT .....	.....	- 46,901	- 46,901
	ADVANCED TRAUMA AND PUBLIC HEALTH DIRECT TRAINING SERVICES .....	.....	1,534	+ 1,534
	EXERCISE NORTHERN STRIKE .....	.....	5,000	+ 5,000
	TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, ARMY	9,051,344	9,035,677	- 15,667
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	819,504	819,504	.....
	TOTAL, NATIONAL GUARD PERSONNEL, ARMY	9,870,848	9,855,181	- 15,667

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
80	Special Training	822,161	843,861	+ 21,700
	Program increase: Wildfire training			+ 6,500
	Program increase: Pilot program for remote provision of cybersecurity technical assistance			+ 6,000
	Program increase: CBRN Response Forces			+ 9,200
90	Administration and Support	4,241,094	4,244,094	+ 3,000
	Program increase: Warrior Resiliency and Fitness			+ 3,000
UNDIST	Revised budget estimate		- 46,901	- 46,901
UNDIST	Program increase: Advanced trauma and public health direct training services		1,534	+ 1,534
UNDIST	Program increase: Exercise Northern Strike		5,000	+ 5,000

NATIONAL GUARD PERSONNEL, AIR FORCE

Budget estimate, 2022	\$4,814,974,000
Committee recommendation	4,747,296,000

The Committee recommends an appropriation of \$4,747,296,000. This is \$67,678,000 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	2022 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)	920,210	920,210	.....
30	PAY GROUP F TRAINING (RECRUITS)	110,398	110,398	.....
40	PAY GROUP P TRAINING (PIPELINE RECRUITS)	5,822	5,822	.....
70	SCHOOL TRAINING	350,965	350,965	.....
80	SPECIAL TRAINING	245,388	250,848	+ 5,460
90	ADMINISTRATION AND SUPPORT	3,154,646	3,157,646	+ 3,000
94	THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	15,172	15,172	.....
100	EDUCATION BENEFITS	12,373	12,373	.....
	TOTAL, BUDGET ACTIVITY 1	4,814,974	4,823,434	+ 8,460
	UNDISTRIBUTED ADJUSTMENT		- 78,803	- 78,803
	ADVANCED TRAUMA AND PUBLIC HEALTH DIRECT TRAINING SERVICES		2,665	+ 2,665
	TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, AIR FORCE	4,814,974	4,747,296	- 67,678
	TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375) ..	314,339	314,339	.....
	TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE ..	5,129,313	5,061,635	- 67,678

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
80	Special Training	245,388	250,848	+ 5,460
	Program increase: Wildfire training			+ 5,460
90	Administration and Support	3,154,646	3,157,646	+ 3,000
	Program increase: Warrior Resiliency and Fitness			+ 3,000
UNDIST	Revised budget estimate		- 78,803	- 78,803
UNDIST	Program increase: Advanced trauma and public health direct training services		2,665	+ 2,665

Air National Guard Wildfire Training Funds.—The Committee recognizes proper training of Air National Guard members is a critical part of a robust response to wildfires. Accordingly, the recommendation includes additional funding for wildfire training and expects the funding to be used for fire certification training and equipment to allow Air National Guard members to be trained, ready, and able to support and respond to fires should the need arise.

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 2022 budget requests a total of \$253,623,852,000 for operation and maintenance appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends operation and maintenance appropriations totaling \$257,821,863,000 for fiscal year 2022. This is \$4,198,011,000 above the budget estimate.

Committee recommended operation and maintenance appropriations for fiscal year 2022 are summarized below:

SUMMARY OF OPERATION AND MAINTENANCE APPROPRIATIONS

[In thousands of dollars]

Account	2022 budget estimate	Committee recommendation	Change from budget estimate
Operation and Maintenance:			
Operation and Maintenance, Army	54,616,397	56,239,985	+ 1,623,588
Operation and Maintenance, Navy	60,441,228	62,895,758	+ 2,454,530
Operation and Maintenance, Marine Corps	9,024,791	9,313,631	+ 288,840
Operation and Maintenance, Air Force	53,876,475	55,619,741	+ 1,743,266
Operation and Maintenance, Space Force	3,440,712	3,556,350	+ 115,638
Operation and Maintenance, Defense-Wide	44,918,366	45,317,901	+ 399,535
Afghanistan Security Forces Fund	3,327,810	.....	- 3,327,810
Counter-Islamic State of Iraq and Syria Train and Equip Fund ...	522,000	492,000	- 30,000
Operation and Maintenance, Army Reserve	3,000,635	3,008,635	+ 8,000
Operation and Maintenance, Navy Reserve	1,148,698	1,130,198	- 18,500
Operation and Maintenance, Marine Corps Reserve	285,050	335,450	+ 50,400
Operation and Maintenance, Air Force Reserve	3,352,106	3,317,106	- 35,000
Operation and Maintenance, Army National Guard	7,647,209	7,705,193	+ 57,984
Operation and Maintenance, Air National Guard	6,574,020	6,678,660	+ 104,640
United States Court of Appeals for the Armed Forces	15,589	15,589	.....
Environmental Restoration, Army	200,806	299,606	+ 98,800
Environmental Restoration, Navy	298,250	465,550	+ 167,300
Environmental Restoration, Air Force	301,768	796,568	+ 494,800
Environmental Restoration, Defense-Wide	8,783	8,783	.....
Environmental Restoration, Formerly Used Defense Sites	218,580	218,580	.....
Overseas Humanitarian, Disaster, and Civic Aid	110,051	110,051	.....
Cooperative Threat Reduction Account	239,849	239,849	.....
Department of Defense Acquisition Workforce Development Account	54,679	56,679	+ 2,000
Total	253,623,852	257,821,863	+ 4,198,011

REPROGRAMMING GUIDANCE FOR OPERATION AND MAINTENANCE
ACCOUNTS

The Committee directs the Secretary of Defense to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2022 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
- Combat Support Forces
- Facilities sustainment, restoration and modernization
- Base operating support

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:

Air Force:
Base Support

REPROGRAMMING GUIDANCE FOR SPECIAL OPERATIONS COMMAND

The Committee directs the Secretary of Defense to submit a baseline report that shows the United States Special Operations Command's operation and maintenance funding by sub-activity group for the fiscal year 2022 appropriation, not later than 60 days after the enactment of this Act. The Secretary of Defense is further directed to submit quarterly execution reports to the congressional defense committees not later than 45 days after the end of each fiscal quarter that addresses the rationale for the realignment of any funds within and between budget sub-activities. Finally, the Secretary of Defense is directed to notify the congressional defense committees 30 days prior to the realignment of funds in excess of \$10,000,000 between sub-activity groups.

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 re-

sponsive 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.

Addressing Sexual Assault.—The Committee commends the Secretary of Defense for denouncing the crime of sexual assault upon taking office and calling for the 90 day Independent Review Commission [IRC] on Sexual Assault in the Military. The Committee fully supports the Secretary of Defense in these efforts and recommends \$400,000,000 above the budget request for the Department of Defense to implement the IRC’s recommendations. The Committee directs the Secretary of Defense to provide a spend plan for the additional funds to the Committees on Appropriations of the House of Representatives and the Senate not later than 60 days after the enactment of this act.

Further, the Committee recommendation fully funds the fiscal year 2022 President’s budget request for the Department of Defense Sexual Assault Prevention and Response Office [SAPRO]. This includes funding to establish a Center of Excellence for Sexual Assault Prevention, Response, Education and Training. The Committee recommendation also includes \$46,000,000 for the Special Victims’ Counsel and \$7,500,000 for sexual assault prevention efforts above the budget request for SAPRO and the military services. Additionally, the Committee recommendation includes \$4,300,000 above the budget request for the National Guard Bureau to build an initial sexual assault and violence prevention workforce.

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, 2021 (Public Law 116–260) directing the elimination of the price subsidy provided to tobacco products at military exchanges.

Drinking Water Contamination.—The Committee remains concerned about the health implications of contaminated drinking water cause by per- and polyfluoroalkyl substances [PFAS]. The Committee worked with the Department of Defense and military services to assess unfunded requirements relating to the remediation of PFAS and provided additional funding accordingly. The Committee directs the Service Secretaries to provide a spend plan to the Committees on Appropriations of the House of Representatives and the Senate for these additional funds not later than 60 days after the enactment of this act.

Deployable Landing System Demonstration.—The Committee supports the United States Indo-Pacific Command’s efforts to ensure the capability of U.S. joint forces to operate from remote and austere airfields in denied environments where access to the Global Positioning System [GPS] is not assured. The Committee encourages the Secretary of Defense to expand training opportunities for the execution of combat joint operations from remote and austere locations using a rapidly deployable surveillance and precision landing system that can provide all-weather, day-night joint operations in a GPS-denied environment.

Mobile Technology Partnerships.—Recruiters from all branches of the military services use commercial mobile applications in order to advertise military opportunities to prospective recruits. The Committee encourages the Secretary of Defense to develop a pilot program to study the use of commercially available mobile job applications that are able to provide innovative ways for recruiters and potential recruits to connect faster while also advancing service goals related to diversity.

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. However, the Committee notes that current law requires consultation between the Department and other similar Federal law enforcement grant programs. Therefore, the Committee directs the Secretary of Defense to establish a working group of agency representatives from the Departments of Justice and Homeland Security, the Director of National Drug Control Policy, as well as State, local, and other public stakeholders, to discuss issues, concerns, and opportunities regarding the 1033 program and programs that provide similar equipment to law enforcement. Additionally, 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.

Finally, the Committee directs the Secretary of Defense to provide two separate reports to the congressional defense committees on the following topics:

(1) The status of the annual certification from recipient law enforcement agencies containing assurances that the recipient received annual training to relevant personnel on the maintenance, sustainment, and appropriate use of controlled property, and on respecting the rights of citizens under the Constitution of the United States and the de-escalation of force. This report shall be submitted not later than 30 days after the enactment of this act; and

(2) A review of the efficacy of the 1033 program, to include a recommendation to continue or end the program in the future. This report shall be submitted not later than 180 days after the enactment of this act.

OPERATION AND MAINTENANCE, ARMY

Budget estimate, 2022 \$54,616,397,000
 Committee recommendation 56,239,985,000

The Committee recommends an appropriation of \$56,239,985,000.
 This is \$1,623,588,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, ARMY			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	LAND FORCES			
10	MANEUVER UNITS	3,563,856	3,528,856	— 35,000
20	MODULAR SUPPORT BRIGADES	142,082	142,082	.....
30	ECHELONS ABOVE BRIGADES	758,174	758,174	.....
40	THEATER LEVEL ASSETS	2,753,783	2,753,783	.....
50	LAND FORCES OPERATIONS SUPPORT	1,110,156	1,110,156	.....
60	AVIATION ASSETS	1,795,522	1,695,522	— 100,000
	LAND FORCES READINESS			
70	FORCE READINESS OPERATIONS SUPPORT	7,442,976	7,350,376	— 92,600
80	LAND FORCES SYSTEMS READINESS	580,921	560,921	— 20,000
90	LAND FORCES DEPOT MAINTENANCE	1,257,959	1,257,959	.....
100	MEDICAL READINESS	1,102,964	1,102,964	.....
	LAND FORCES READINESS SUPPORT			
110	BASE OPERATIONS SUPPORT	8,878,603	8,847,153	— 31,450
120	FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION	4,051,869	4,567,869	+ 516,000
130	MANAGEMENT AND OPERATIONAL HEADQUARTERS	289,891	289,891	.....
140	ADDITIONAL ACTIVITIES	526,517	526,517	.....
160	RESET	397,196	397,196	.....
	COMBATANT COMMAND SUPPORT			
170	US AFRICA COMMAND	384,791	452,131	+ 67,340
180	US EUROPEAN COMMAND	293,932	294,182	+ 250
190	US SOUTHERN COMMAND	196,726	197,101	+ 375
200	US FORCES KOREA	67,052	67,052	.....
210	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	621,836	621,836	.....
220	CYBER SPACE ACTIVITIES—CYBERSECURITY	629,437	629,437	.....
	TOTAL, BUDGET ACTIVITY 1	36,846,243	37,151,158	+ 304,915
	BUDGET ACTIVITY 2: MOBILIZATION			
	MOBILITY OPERATIONS			
230	STRATEGIC MOBILITY	353,967	353,967	.....
240	ARMY PREPOSITIONED STOCKS	381,192	381,192	.....
250	INDUSTRIAL PREPAREDNESS	3,810	3,810	.....
	TOTAL, BUDGET ACTIVITY 2	738,969	738,969	.....
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING			
260	OFFICER ACQUISITION	163,568	163,568	.....
270	RECRUIT TRAINING	75,140	75,140	.....
280	ONE STATION UNIT TRAINING	81,274	81,274	.....
290	SENIOR RESERVE OFFICERS TRAINING CORPS	520,973	521,623	+ 650
	BASIC SKILL AND ADVANCED TRAINING			
300	SPECIALIZED SKILL TRAINING	998,869	993,869	— 5,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
310	FLIGHT TRAINING	1,309,556	1,309,556	.....
320	PROFESSIONAL DEVELOPMENT EDUCATION	218,651	218,651	.....
330	TRAINING SUPPORT	616,380	604,380	- 12,000
	RECRUITING AND OTHER TRAINING AND EDUCATION			
340	RECRUITING AND ADVERTISING	683,569	683,569	.....
350	EXAMINING	169,442	169,442	.....
360	OFF-DUTY AND VOLUNTARY EDUCATION	214,923	214,923	.....
370	CIVILIAN EDUCATION AND TRAINING	220,589	220,589	.....
380	JUNIOR RESERVE OFFICERS TRAINING CORPS	187,569	190,569	+ 3,000
	TOTAL, BUDGET ACTIVITY 3	5,460,503	5,447,153	- 13,350
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	LOGISTICS OPERATIONS			
400	SERVICEWIDE TRANSPORTATION	684,562	684,562	.....
410	CENTRAL SUPPLY ACTIVITIES	808,895	808,895	.....
420	LOGISTICS SUPPORT ACTIVITIES	767,053	767,053	.....
430	AMMUNITION MANAGEMENT	469,038	469,038	.....
	SERVICEWIDE SUPPORT			
440	ADMINISTRATION	488,535	478,535	- 10,000
450	SERVICEWIDE COMMUNICATIONS	1,952,742	1,919,832	- 32,910
460	MANPOWER MANAGEMENT	323,273	323,273	.....
470	OTHER PERSONNEL SUPPORT	663,602	663,602	.....
480	OTHER SERVICE SUPPORT	2,004,981	2,009,964	+ 4,983
490	ARMY CLAIMS ACTIVITIES	180,178	180,178	.....
500	REAL ESTATE MANAGEMENT	269,009	271,009	+ 2,000
510	FINANCIAL MANAGEMENT AND AUDIT READINESS	437,940	437,940	.....
520	INTERNATIONAL MILITARY HEADQUARTERS	482,571	482,571	.....
530	MISC SUPPORT OF OTHER NATIONS	29,670	29,670	.....
	OTHER PROGRAMS			
	CLASSIFIED PROGRAMS	2,008,633	2,026,333	+ 17,700
	TOTAL, BUDGET ACTIVITY 4	11,570,682	11,552,455	- 18,227
	UNJUSTIFIED GROWTH .....	.....	- 150,000	- 150,000
	PROGRAM INCREASE: READINESS/OPERATIONAL SHORTFALLS .....	.....	1,500,000	+ 1,500,000
	PUBLIC LAW 115-68 IMPLEMENTATION .....	.....	250	+ 250
	TOTAL, OPERATION AND MAINTENANCE, ARMY	54,616,397	56,239,985	+ 1,623,588

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
111	Maneuver Units	3,563,856	3,528,856	- 35,000
	Program decrease unaccounted for .....	.....	.....	- 25,000
	Unjustified growth .....	.....	.....	- 10,000
116	Aviation Assets	1,795,522	1,695,522	- 100,000
	Unjustified growth .....	.....	.....	- 100,000
121	Force Readiness Operations Support	7,442,976	7,350,376	- 92,600
	Program decrease unaccounted for .....	.....	.....	- 75,000
	Unjustified growth .....	.....	.....	- 40,000
	Program increase: Camouflage .....	.....	.....	+ 20,000
	Program increase: Holistic health and fitness .....	.....	.....	+ 1,500
	Program increase: INDOPACOM Pacific Multi-Domain Training and Experimentation Capability .....	.....	.....	+ 900
122	Land Forces Systems Readiness	580,921	560,921	- 20,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program decrease unaccounted for			— 20,000
131	Base Operations Support	8,878,603	8,847,153	— 31,450
	Program decrease unaccounted for			— 40,000
	Program increase: PFAS remediation activities			+ 7,350
	Program increase: AFFF disposal			+ 1,200
132	Facilities Sustainment, Restoration & Modernization	4,051,869	4,567,869	+ 516,000
	Program increase: FSRM			+ 443,000
	Program increase: VOLAR barracks renovation			+ 73,000
141	US Africa Command	384,791	452,131	+ 67,340
	Program increase: AFRICOM ISR			+ 67,000
	Program increase: Public Law 115–68			+ 340
142	US European Command	293,932	294,182	+ 250
	Program increase: Public Law 115–68			+ 250
143	US Southern Command	196,726	197,101	+ 375
	Program increase: Public Law 115–68			+ 375
314	Senior Reserve Officers Training Corps	520,973	521,623	+ 650
	Program increase: ROTC helicopter training program ..			+ 650
321	Specialized Skill Training	998,869	993,869	— 5,000
	Unjustified growth			— 5,000
324	Training Support	616,380	604,380	— 12,000
	Unjustified growth			— 12,000
335	Junior Reserve Officer Training Corps	187,569	190,569	+ 3,000
	Program increase: JROTC STEM training and education ..			+ 3,000
431	Administration	488,535	478,535	— 10,000
	Unjustified growth			— 10,000
432	Servicewide Communications	1,952,742	1,919,832	— 32,910
	Program decrease unaccounted for			— 35,000
	Program increase: Automated Biometrics Identity Sys- tem			+ 2,090
435	Other Service Support	2,004,981	2,009,964	+ 4,983
	Unjustified growth			— 45,000
	Program increase: DFAS unfunded requirement			+ 49,983
437	Real Estate Management	269,009	271,009	+ 2,000
	Program increase: Pilot program for online real estate inventory tool			+ 2,000
411	Security Programs	2,008,633	2,026,333	+ 17,700
	Classified program adjustment			— 300
	Program increase: SOUTHCOM ISR			+ 18,000
UNDIST	Unjustified growth		— 150,000	— 150,000
UNDIST	Program increase: Readiness/operational shortfalls		1,500,000	+ 1,500,000
UNDIST	Program increase: Public Law 115–68 implementation		250	+ 250

Army Sustainment, Restoration and Modernization and Facility Reduction Funding.—The Committee recommendation includes a robust funding level 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.

Multi-Domain Operations-Live.—Multi-Domain Operations-Live [MDO-Live] is a full-scale technology development experiment that takes place in a combat theater, thereby providing a more relevant environment for assessing cutting-edge technologies. MDO-Live will provide the Multi-Domain Task Force, which includes an element known as the Intelligence, Information, Cyber, Electronic Warfare and Space unit, with an opportunity to demonstrate non-kinetic capabilities. The Committee recognizes the growing importance of the electromagnetic spectrum in military operations and encourages the Secretary of the Army to ensure adequate operation and maintenance funding to develop requirements and demonstrate

capabilities is provided as experimentation of this type is pursued in the future.

Arctic Organizational Clothing and Individual Equipment.—The Committee recognizes the importance of equipping soldiers training and operating in cold and arctic environments. This gear includes items such as cold weather boots, mittens, arctic socks, and sleeping bags. The Committee encourages the Secretary of the Army to appropriately field cold weather items to ensure the safety and readiness of soldiers in order to conduct their training and operations in accordance with the Army’s Arctic Strategy.

Mobile Federal Law Enforcement Enterprise Technology Service.—The Army has recently deployed a Mobile Federal Law Enforcement Enterprise Technology Service program with dash-cameras, video recorders, ruggedized computers, mobile communications, and secure cloud storage for patrol vehicles at 10 installations. The program is designed to increase transparency and accountability for officers and the protection of servicemembers and their families. The Committee encourages the continued use and expansion of this information technology solution to additional Army installations.

OPERATION AND MAINTENANCE, NAVY

Budget estimate, 2022	\$60,441,228,000
Committee recommendation	62,895,758,000

The Committee recommends an appropriation of \$62,895,758,000. This is \$2,454,530,000 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	2022 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	6,264,654	6,264,654	.....
20	FLEET AIR TRAINING	2,465,007	2,465,007	.....
30	AVIATION TECHNICAL DATA AND ENGINEERING SERVICES	55,140	55,140	.....
40	AIR OPERATIONS AND SAFETY SUPPORT	197,904	197,904	.....
50	AIR SYSTEMS SUPPORT	1,005,932	1,005,932	.....
60	AIRCRAFT DEPOT MAINTENANCE	1,675,356	1,675,356	.....
70	AIRCRAFT DEPOT OPERATIONS SUPPORT	65,518	65,518	.....
80	AVIATION LOGISTICS	1,460,546	1,460,546	.....
SHIP OPERATIONS				
90	MISSION AND OTHER SHIP OPERATIONS	5,858,028	5,758,028	– 100,000
100	SHIP OPERATIONS SUPPORT AND TRAINING	1,154,696	1,129,696	– 25,000
110	SHIP DEPOT MAINTENANCE	10,300,078	10,300,078	.....
120	SHIP DEPOT OPERATIONS SUPPORT	2,188,454	2,088,454	– 100,000
COMBAT OPERATIONS/SUPPORT				
130	COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE	1,551,846	1,501,846	– 50,000
140	SPACE SYSTEMS AND SURVEILLANCE	327,251	327,251	.....
150	WARFARE TACTICS	798,082	801,082	+ 3,000
160	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY	447,486	447,486	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
170	COMBAT SUPPORT FORCES	2,250,756	2,210,756	- 40,000
180	EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT	192,968	192,968	.....
190	COMBATANT COMMANDERS CORE OPERATIONS	61,614	61,614	.....
200	COMBATANT COMMANDERS DIRECT MISSION SUPPORT	198,596	341,566	+ 142,970
210	MILITARY INFORMATION SUPPORT OPERATIONS	8,984	36,984	+ 28,000
220	CYBERSPACE ACTIVITIES	565,926	557,926	- 8,000
	WEAPONS SUPPORT			
230	FLEET BALLISTIC MISSILE	1,476,247	1,476,247	.....
240	WEAPONS MAINTENANCE	1,538,743	1,538,743	.....
250	OTHER WEAPON SYSTEMS SUPPORT	592,357	592,357	.....
	BASE SUPPORT			
260	ENTERPRISE INFORMATION	734,970	1,467,970	+ 733,000
270	SUSTAINMENT, RESTORATION AND MODERNIZATION	2,961,937	3,471,937	+ 510,000
280	BASE OPERATING SUPPORT	4,826,314	4,780,314	- 46,000
	TOTAL, BUDGET ACTIVITY 1	51,225,390	52,273,360	+ 1,047,970
	BUDGET ACTIVITY 2: MOBILIZATION			
290	SHIP PREPOSITIONING AND SURGE	457,015	457,015	.....
300	READY RESERVE FORCE	645,522	645,522	.....
310	SHIP ACTIVATIONS/INACTIVATIONS	353,530	353,530	.....
320	EXPEDITIONARY HEALTH SERVICES SYSTEMS	149,384	149,384	.....
330	COAST GUARD SUPPORT	20,639	20,639	.....
	TOTAL, BUDGET ACTIVITY 2	1,626,090	1,626,090	.....
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
340	OFFICER ACQUISITION	172,913	172,913	.....
350	RECRUIT TRAINING	13,813	13,813	.....
360	RESERVE OFFICERS TRAINING CORPS	167,152	167,152	.....
	BASIC SKILLS AND ADVANCED TRAINING			
370	SPECIALIZED SKILL TRAINING	1,053,104	1,053,104	.....
380	PROFESSIONAL DEVELOPMENT EDUCATION	311,209	301,209	- 10,000
390	TRAINING SUPPORT	306,302	306,302	.....
	RECRUITING, AND OTHER TRAINING AND EDUCATION			
400	RECRUITING AND ADVERTISING	205,219	209,519	+ 4,300
410	OFF-DUTY AND VOLUNTARY EDUCATION	79,053	79,053	.....
420	CIVILIAN EDUCATION AND TRAINING	109,754	109,754	.....
430	JUNIOR ROTC	57,323	58,823	+ 1,500
	TOTAL, BUDGET ACTIVITY 3	2,475,842	2,471,642	- 4,200
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	SERVICEWIDE SUPPORT			
440	ADMINISTRATION	1,268,961	1,243,961	- 25,000
450	CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT	212,952	212,952	.....
460	MILITARY MANPOWER AND PERSONNEL MANAGEMENT	562,546	562,546	.....
470	MEDICAL ACTIVITIES	285,436	285,436	.....
	LOGISTICS OPERATIONS AND TECHNICAL SUPPORT			
480	SERVICEWIDE TRANSPORTATION	217,782	217,782	.....
500	PLANNING, ENGINEERING, AND PROGRAM SUPPORT	479,480	479,480	.....
510	ACQUISITION, LOGISTICS, AND OVERSIGHT	741,045	741,045	.....
	INVESTIGATIONS AND SECURITY PROGRAMS			
520	INVESTIGATIVE AND SECURITY SERVICES	738,187	738,187	.....
	OTHER PROGRAMS			
	CLASSIFIED PROGRAMS	607,517	601,017	- 6,500
	TOTAL, BUDGET ACTIVITY 4	5,113,906	5,082,406	- 31,500
	UNJUSTIFIED GROWTH		- 58,000	- 58,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	PROGRAM INCREASE: READINESS/OPERATIONAL SHORTFALLS		1,500,000	+ 1,500,000
	PUBLIC LAW 115-68 IMPLEMENTATION		260	+ 260
	TOTAL, OPERATION AND MAINTENANCE, NAVY	60,441,228	62,895,758	+ 2,454,530

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1B1B	Mission and Other Ship Operations	5,858,028	5,758,028	- 100,000
	Unjustified growth			- 100,000
1B2B	Ship Operations Support & Training	1,154,696	1,129,696	- 25,000
	Unjustified growth			- 25,000
1B5B	Ship Depot Operations Support	2,188,454	2,088,454	- 100,000
	Unjustified growth			- 100,000
1C1C	Combat Communications and Electronic Warfare	1,551,846	1,501,846	- 50,000
	Program decrease unaccounted for			- 50,000
1C4C	Warfare Tactics	798,082	801,082	+ 3,000
	Program increase: INDOPACOM Pacific Multi-Domain Training and Experimentation Capability			+ 3,000
1C6C	Combat Support Forces	2,250,756	2,210,756	- 40,000
	Program decrease unaccounted for			- 40,000
1CCM	Combatant Commanders Direct Mission Support	198,596	341,566	+ 142,970
	Program Increase: INDOPACOM Wargaming Analytical Tools			+ 88,000
	Program increase: INDOPACOM Mission Partner Environment			+ 50,170
	Program Increase: INDOPACOM Future Fusion Centers			+ 3,300
	Program Increase: INDOPACOM Pacific Movement Coordination Center			+ 500
	Program increase: Public Law 115-68			+ 1,000
1CCS	Military Information Support Operations	8,984	36,984	+ 28,000
	Program Increase: INDOPACOM Military Information Support Operations			+ 28,000
1CCY	Cyberspace Activities	565,926	557,926	- 8,000
	Unjustified growth			- 8,000
BSIT	Enterprise Information	734,970	1,467,970	+ 733,000
	Program decrease unaccounted for			- 45,000
	Transfer: Deny transfer to RDTEEN for BA08 Software Pilot Program			+ 778,000
BSM1	Sustainment, Restoration and Modernization	2,961,937	3,471,937	+ 510,000
	Program increase: FSRM			+ 330,000
	Program increase: FSRM for public shipyards/SIOP			+ 180,000
BSS1	Base Operating Support	4,826,314	4,780,314	- 46,000
	Unjustified growth			- 46,000
3B3K	Professional Development Education	311,209	301,209	- 10,000
	Program decrease unaccounted for			- 10,000
3C1L	Recruiting and Advertising	205,219	209,519	+ 4,300
	Program Increase: U.S. Naval Sea Cadets			+ 4,300
3C5L	Junior ROTC	57,323	58,823	+ 1,500
	Program increase: JROTC STEM training and education			+ 1,500
4A1M	Administration	1,268,961	1,243,961	- 25,000
	Unjustified growth			- 25,000
999	Classified Programs	607,517	601,017	- 6,500
	Classified program adjustment			- 6,500
UNDIST	Unjustified growth		- 58,000	- 58,000
UNDIST	Program increase: Readiness/operational shortfalls		1,500,000	+ 1,500,000
UNDIST	Program increase: Public Law 115-68 implementation		260	+ 260

Mk VI Patrol Boats.—The Secretary of the Navy has proposed to divest Mk VI patrol boats from its inventory despite the platform filling an essential role in close-in maritime operations. The Committee is concerned this decision may be premature, particularly without a clear plan for how the Navy will continue to fulfill the missions these crafts accomplish. Therefore, the Committee directs the Secretary of the Navy to conduct a review prior to making any final decision on the program, and submit a report to the congressional defense committees not later than 60 days after the enactment of this act that includes an assessment of the Mk VI platform's current and future mission capabilities; any capability gaps that are not currently fulfilled by the Mk VI fleet; any possible modifications necessary to ensure identified capability gaps are filled and the system engineering, testing, and evaluation data to support such conclusions; the vessel's utility in foreign partnership building and engagement with allies; and the Navy's proposal to independently fulfill current and future patrol boat missions.

Naval Shipyard Apprentice Program.—The Committee directs that during fiscal year 2022 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 2023 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.

Barbers Point Electrical Infrastructure.—Naval Air Station Barbers Point was closed as a result of the 1993 Base Closure and Realignment Commission [BRAC] recommendations. In order to facilitate the divestiture and transfer of the electrical utility system in the area from the Navy to the local utility provider on Oahu, Hawaii, significant upgrades need to occur. The Committee directs the Secretary of the Navy to provide a briefing to the congressional defense committees not later than January 31, 2022, that identifies the funding requirements by appropriation for the design costs and electrical utility infrastructure upgrades, as well as customer connections to the new lines for a seamless transition for residents and tenants. The Secretary shall also advise on any statutory authority required to support this project given the unique circumstances of the BRAC properties.

Illegal, Unreported, and Unregulated Fishing.—The Committee notes that illegal, unreported, and unregulated fishing poses a threat to food security and marine ecosystem health. The United States Southern Command has participated in intelligence collection and collaborated with partner nations to combat this threat as it relates to maritime domain awareness and national security. The Committee encourages the Secretary of Defense to leverage technology to support efforts in this area.

OPERATION AND MAINTENANCE, MARINE CORPS

Budget estimate, 2022 \$9,024,791,000
 Committee recommendation 9,313,631,000

The Committee recommends an appropriation of \$9,313,631,000.
 This is \$288,840,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, MARINE CORPS			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	EXPEDITIONARY FORCES			
10	OPERATIONAL FORCES	1,587,456	1,592,456	+ 5,000
20	FIELD LOGISTICS	1,532,630	1,502,630	- 30,000
30	DEPOT MAINTENANCE	215,949	215,949	.....
	USMC PREPOSITIONING			
40	MARITIME PREPOSITIONING	107,969	107,969	.....
	COMBAT OPERATIONS/SUPPORT			
50	CYBERSPACE ACTIVITIES	233,486	233,486	.....
	BASE SUPPORT			
60	SUSTAINMENT, RESTORATION & MODERNIZATION	1,221,117	1,355,617	+ 134,500
70	BASE OPERATING SUPPORT	2,563,278	2,533,778	- 29,500
	TOTAL, BUDGET ACTIVITY 1	7,461,885	7,541,885	+ 80,000
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING			
80	RECRUIT TRAINING	24,729	24,729	.....
90	OFFICER ACQUISITION	1,208	1,208	.....
	BASIC SKILLS AND ADVANCED TRAINING			
100	SPECIALIZED SKILLS TRAINING	110,752	110,752	.....
110	PROFESSIONAL DEVELOPMENT EDUCATION	61,539	61,539	.....
120	TRAINING SUPPORT	490,975	490,975	.....
	RECRUITING AND OTHER TRAINING EDUCATION			
130	RECRUITING AND ADVERTISING	223,643	223,643	.....
140	OFF-DUTY AND VOLUNTARY EDUCATION	49,369	49,369	.....
150	JUNIOR ROTC	26,065	27,565	+ 1,500
	TOTAL, BUDGET ACTIVITY 3	988,280	989,780	+ 1,500
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	SERVICEWIDE SUPPORT			
160	SERVICEWIDE TRANSPORTATION	100,475	100,475	.....
170	ADMINISTRATION	410,729	410,729	.....
	OTHER PROGRAMS			
	CLASSIFIED PROGRAMS	63,422	63,422	.....
	TOTAL, BUDGET ACTIVITY 4	574,626	574,626	.....
	PROGRAM INCREASE—PUBLIC LAW 115-68 IMPLEMENTATION .....	.....	340	+ 340
	UNJUSTIFIED GROWTH .....	.....	- 18,000	- 18,000
	PROGRAM INCREASE: READINESS/OPERATIONAL SHORTFALLS .....	.....	225,000	+ 225,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS	9,024,791	9,313,631	+ 288,840

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Operational Forces	1,587,456	1,592,456	+ 5,000
	Program increase: Autonomous robotic targets			+ 5,000
1A2A	Field Logistics	1,532,630	1,502,630	- 30,000
	Unjustified growth			- 30,000
BSM1	Sustainment, Restoration & Modernization	1,221,117	1,355,617	+ 134,500
	Program increase: FSRM			+ 133,000
	Program increase: AFFF removal repairs			+ 1,500
BSS1	Base Operating Support	2,563,278	2,533,778	- 29,500
	Unjustified growth			- 20,000
	Program decrease unaccounted for			- 10,000
	Program increase: AFFF disposal			+ 500
3C3F	Junior ROTC	26,065	27,565	+ 1,500
	Program increase: JROTC STEM training and education			+ 1,500
UNDIST	Unjustified growth		- 18,000	- 18,000
UNDIST	Program increase: Readiness/operational shortfalls		225,000	+ 225,000
UNDIST	Program increase: Public Law 115-68 implementation		340	+ 340

OPERATION AND MAINTENANCE, AIR FORCE

Budget estimate, 2022 \$53,876,475,000
 Committee recommendation 55,619,741,000

The Committee recommends an appropriation of \$55,619,741,000. This is \$1,743,266,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, AIR FORCE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
10	PRIMARY COMBAT FORCES	706,860	661,860	- 45,000
20	COMBAT ENHANCEMENT FORCES	2,382,448	2,303,164	- 79,284
30	AIR OPERATIONS TRAINING (OJT, MAINTAIN SKILLS)	1,555,320	1,577,430	+ 22,110
40	DEPOT PURCHASE EQUIPMENT MAINTENANCE	3,661,762	3,661,762	
50	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	3,867,114	4,302,114	+ 435,000
60	CYBERSPACE SUSTAINMENT	179,568	179,568	
70	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT ...	8,457,653	8,612,653	+ 155,000
80	FLYING HOUR PROGRAM	5,646,730	5,646,730	
90	BASE SUPPORT	9,846,037	9,776,037	- 70,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	COMBAT RELATED OPERATIONS			
100	GLOBAL C3I AND EARLY WARNING	979,705	964,705	- 15,000
110	OTHER COMBAT OPS SPT PROGRAMS	1,418,515	1,378,515	- 40,000
120	CYBERSPACE ACTIVITIES	864,761	872,761	+ 8,000
	SPACE OPERATIONS			
150	SPACE CONTROL SYSTEMS	13,223	13,223	.....
	COCOM			
160	US NORTHCOM/NORAD	196,774	197,339	+ 565
170	US STRATCOM	475,015	524,445	+ 49,430
180	US CYBERCOM	389,663	413,213	+ 23,550
190	US CENTCOM	372,354	341,539	- 30,815
200	US SOCOM	28,733	29,623	+ 890
210	US TRANSCOM .....	.....	250	+ 250
220	CENTCOM CYBERSPACE SUSTAINMENT	1,289	1,289	.....
230	USSPACECOM	272,601	263,109	- 9,492
	OPERATING FORCES			
	CLASSIFIED PROGRAMS	1,454,383	1,458,233	+ 3,850
	TOTAL, BUDGET ACTIVITY 1	42,770,508	43,179,562	+ 409,054
	BUDGET ACTIVITY 2: MOBILIZATION			
	MOBILITY OPERATIONS			
240	AIRLIFT OPERATIONS	2,422,784	2,382,784	- 40,000
250	MOBILIZATION PREPAREDNESS	667,851	667,851	.....
	TOTAL, BUDGET ACTIVITY 2	3,090,635	3,050,635	- 40,000
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
	ACCESSION TRAINING			
260	OFFICER ACQUISITION	156,193	156,193	.....
270	RECRUIT TRAINING	26,072	26,072	.....
280	RESERVE OFFICER TRAINING CORPS (ROTC)	127,693	127,693	.....
	BASIC SKILLS AND ADVANCED TRAINING			
290	SPECIALIZED SKILL TRAINING	491,286	481,286	- 10,000
300	FLIGHT TRAINING	718,742	718,742	.....
310	PROFESSIONAL DEVELOPMENT EDUCATION	302,092	306,092	+ 4,000
320	TRAINING SUPPORT	162,165	162,165	.....
	RECRUITING, AND OTHER TRAINING AND EDUCATION			
330	RECRUITING AND ADVERTISING	171,339	171,339	.....
340	EXAMINING	8,178	8,178	.....
350	OFF DUTY AND VOLUNTARY EDUCATION	236,760	236,760	.....
360	CIVILIAN EDUCATION AND TRAINING	306,602	296,602	- 10,000
370	JUNIOR ROTC	65,940	69,940	+ 4,000
	TOTAL, BUDGET ACTIVITY 3	2,773,062	2,761,062	- 12,000
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	LOGISTICS OPERATIONS			
380	LOGISTICS OPERATIONS	1,062,709	1,056,709	- 6,000
390	TECHNICAL SUPPORT ACTIVITIES	169,957	169,957	.....
	ADMIN SERVICEWIDE ACTIVITIES			
400	ADMINISTRATION	1,005,827	1,064,914	+ 59,087
410	SERVICEWIDE COMMUNICATIONS	31,054	31,054	.....
420	OTHER SERVICEWIDE ACTIVITIES	1,470,757	1,450,757	- 20,000
430	CIVIL AIR PATROL	29,128	47,263	+ 18,135
450	INTERNATIONAL SUPPORT	81,118	81,118	.....
	CLASSIFIED PROGRAMS	1,391,720	1,353,960	- 37,760
	TOTAL, BUDGET ACTIVITY 4	5,242,270	5,255,732	+ 13,462
	PUBLIC LAW 115-68 IMPLEMENTATION .....	.....	750	+ 750

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
UNDIST	AUTHORIZATION ADJUSTMENT: RETAIN TWO KC-10 .....	.....	22,000	+ 22,000
	PROGRAM INCREASE: READINESS/OPERATIONAL SHORTFALLS .....	.....	1,350,000	+ 1,350,000
	TOTAL, OPERATION AND MAINTENANCE, AIR FORCE	53,876,475	55,619,741	+ 1,743,266

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
011A	Primary Combat Forces	706,860	661,860	- 45,000
	Unjustified growth .....	.....	.....	- 45,000
011C	Combat Enhancement Forces	2,382,448	2,303,164	- 79,284
	Unjustified growth .....	.....	.....	- 150,000
	Transfer: From RDAF lines 317, 318, 319 .....	.....	.....	+ 70,716
011D	Air Operations Training (OJT, Maintain Skills)	1,555,320	1,577,430	+ 22,110
	Program increase: INDOPACOM Multi-Domain Training and Experimentation Capability .....	.....	.....	+ 22,110
011R	Facilities Sustainment, Restoration & Modernization	3,867,114	4,302,114	+ 435,000
	Program increase: FSRM .....	.....	.....	+ 435,000
011W	Contractor Logistics Support and System Support	8,457,653	8,612,653	+ 155,000
	Unjustified growth .....	.....	.....	- 30,000
	Program increase: F-35 sustainment .....	.....	.....	+ 185,000
011Z	Base Support	9,846,037	9,776,037	- 70,000
	Unjustified growth .....	.....	.....	- 70,000
012A	Global C3I and Early Warning	979,705	964,705	- 15,000
	Unjustified growth .....	.....	.....	- 15,000
012C	Other Combat Ops Spt Programs	1,418,515	1,378,515	- 40,000
	Unjustified growth .....	.....	.....	- 40,000
012D	Cyberspace Activities	864,761	872,761	+ 8,000
	Program increase: Cyber resiliency for NC3 bases .....	.....	.....	+ 8,000
012F	Tactical Intelligence and Special Activities	1,454,383	1,458,233	+ 3,850
	Program increase: INDOPACOM Mission Partner Environment BICES-X .....	.....	.....	+ 3,850
015C	US NORTHCOM/NORAD	196,774	197,339	+ 565
	Program increase: Public Law 115-68 .....	.....	.....	+ 565
015D	US STRATCOM	475,015	524,445	+ 49,430
	Transfer: From RDAF lines 317, 318, 319 .....	.....	.....	+ 49,180
	Program increase: Public Law 115-68 .....	.....	.....	+ 250
015E	US CYBERCOM	389,663	413,213	+ 23,550
	Program increase: Cyber training .....	.....	.....	+ 23,300
	Program increase: Public Law 115-68 .....	.....	.....	+ 250
015F	US CENTCOM	372,354	341,539	- 30,815
	Unjustified growth .....	.....	.....	- 15,000
	Unjustified growth: OSC-I .....	.....	.....	- 16,000
	Program increase: Public Law 115-68 .....	.....	.....	+ 185
015G	US SOCOM	28,733	29,623	+ 890
	Program increase: Public Law 115-68 .....	.....	.....	+ 890
015H	US TRANSCOM .....	.....	250	+ 250
	Program increase: Public Law 115-68 .....	.....	.....	+ 250
015X	USSPACECOM	272,601	263,109	- 9,492
	Unjustified growth .....	.....	.....	- 10,000
	Program increase: Public Law 115-68 .....	.....	.....	+ 508
021A	Airlift Operations	2,422,784	2,382,784	- 40,000
	Program decrease unaccounted for .....	.....	.....	- 40,000
032A	Specialized Skill Training	491,286	481,286	- 10,000
	Unjustified growth .....	.....	.....	- 10,000
032C	Professional Development Education	302,092	306,092	+ 4,000
	Program increase: Air University Center of Excellence .....	.....	.....	+ 4,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
033D	Civilian Education and Training	306,602	296,602	– 10,000
	Program decrease unaccounted for			– 10,000
033E	Junior ROTC	65,940	69,940	+ 4,000
	Program increase: JROTC STEM training and education			+ 4,000
041A	Logistics Operations	1,062,709	1,056,709	– 6,000
	Unjustified growth			– 6,000
042A	Administration	1,005,827	1,064,914	+ 59,087
	Unjustified growth			– 20,000
	Transfer: From RDAF lines 317, 318, 319			+ 79,087
042G	Other Servicewide Activities	1,470,757	1,450,757	– 20,000
	Unjustified growth			– 20,000
042I	Civil Air Patrol	29,128	47,263	+ 18,135
	Program increase			+ 18,135
999	Classified Programs	1,391,720	1,353,960	– 37,760
	Classified program adjustment			– 37,760
UNDIST	Authorization adjustment: Retain two KC–10		22,000	+ 22,000
UNDIST	Program increase: Readiness/operational shortfalls		1,350,000	+ 1,350,000
UNDIST	Program increase: Public Law 115–68 implementation		750	+ 750

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 collegiate level through the Reserve Officer Training Corps, and encourages the Secretary of the Air Force to work with higher-education institutions, including Historically Black Colleges and Universities and other Minority Serving Institutions, to develop programs that will prepare more students to meet the eligibility requirements for pilot training.

Air Force Network Modernization.—The Committee notes that the Air Force is in the third year of a three-year pilot program for partnering with industry to provide Enterprise Information Technology as a Service. This includes the assessment, evaluation, and deployment of commercial solutions for network operations; maintenance and security; help desk and end-user services; and compute-and-store capabilities for Air Force installations. This effort will allow the Air Force to take advantage of the commercial sector’s continual innovations while enabling Airmen to refocus on core missions. The Committee acknowledges the utilization of commercial best practices and capabilities from multiple vendors and encourages the Air Force to expand beyond the pilot sites.

Operational Support Airlift.—The Committee recognizes the importance of the Air Force’s C–40 B/C fleet in providing safe and reliable transportation to U.S. officials in the process of meeting national security objectives, and is concerned by proposals to divest a number of C–40C aircraft within the Future Years Defense Program. Therefore, the Committee directs the Secretary of the Air Force to conduct a review prior to making any final divestment decision on the program, and submit a report to the congressional defense committees not later than 90 days after the enactment of this act that includes the number of C–40 missions flown over the past five fiscal years, to include detailed information on the purpose of each such mission, the types of missions and passengers, and

where each mission originated and terminated. The report shall also include an assessment of the demand for C-40 missions over the next five fiscal years, how a reduction in the number of available aircraft will impact the missions, and the alternative modes of transportation the Air Force is considering to fulfill these types of requirements.

OPERATION AND MAINTENANCE, SPACE FORCE

Budget estimate, 2022 \$3,440,712,000
 Committee recommendation 3,556,350,000

The Committee recommends an appropriation of \$3,556,350,000. This is \$115,638,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, SPACE FORCE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
10	GLOBAL C3I & EARLY WARNING	495,615	495,615	.....
20	SPACE LAUNCH OPERATIONS	185,700	185,700	.....
30	SPACE OPERATIONS	611,269	611,269	.....
40	EDUCATION & TRAINING	22,887	22,887	.....
50	SPECIAL PROGRAMS			
60	DEPOT MAINTENANCE	280,165	299,165	+ 19,000
70	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	213,347	231,985	+ 18,638
80	CONTRACTOR LOGISTICS & SYSTEM SUPPORT	1,158,707	1,246,707	+ 88,000
90	SPACE OPERATIONS -BOS	143,520	143,520	.....
	CLASSIFIED PROGRAMS	172,755	172,755	.....
	TOTAL, BUDGET ACTIVITY 1	3,283,965	3,409,603	+ 125,638
	BUDGET ACTIVITY 4: ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
100	ADMINISTRATION	156,747	146,747	- 10,000
	TOTAL, BUDGET ACTIVITY 4	156,707	146,747	- 10,000
	TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE	3,440,712	3,556,350	+ 115,638

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
013M	Depot Maintenance	280,165	299,165	+ 19,000
	Unjustified growth .....	.....	.....	- 7,000
	Program increase: Weapon system sustainment .....	.....	.....	+ 26,000
013R	Facilities Sustainment, Restoration and Modernization	213,347	231,985	+ 18,638

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
013W	Program increase: FSRM			+ 18,638
	Contractor Logistics & System Support	1,158,707	1,246,707	+ 88,000
	Program increase: Weapon system sustainment			+ 94,000
042A	Unjustified growth			- 6,000
	Administration	156,747	146,747	- 10,000
	Unjustified growth			- 10,000

Defense-in-Depth as Mission Assurance Spacecraft.—The Committee recognizes the importance of cyber protection to space-based systems that use small satellites for communications, intelligence, weather, and other purposes and encourages the United States Space Force Chief of Space Operations to place a high priority on resiliency to preserve mission essential functions in space.

OPERATION AND MAINTENANCE, DEFENSE—WIDE

Budget estimate, 2022 \$44,918,366,000
 Committee recommendation 45,317,901,000

The Committee recommends an appropriation of \$45,317,901,000. This is \$399,535,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, DEFENSE-WIDE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
10	JOINT CHIEFS OF STAFF	407,240	399,240	- 8,000
20	JOINT CHIEFS OF STAFF—CE2T2	554,634	568,634	+ 14,000
30	JOINT CHIEFS OF STAFF—CYBER	8,098	8,098	
40	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	2,044,479	2,053,479	+ 9,000
50	SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES ...	45,851	45,851	
60	SPECIAL OPERATIONS COMMAND INTELLIGENCE	1,614,757	1,612,255	- 2,502
70	SPECIAL OPERATIONS COMMAND MAINTENANCE	1,081,869	1,061,504	- 20,365
80	SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS	180,042	180,042	
90	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	1,202,060	1,183,563	- 18,497
100	SPECIAL OPERATIONS COMMAND THEATER FORCES	3,175,789	3,155,852	- 19,937
	TOTAL, BUDGET ACTIVITY 1	10,314,819	10,268,518	- 46,301
	BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
130	DEFENSE ACQUISITION UNIVERSITY	171,607	171,607	
140	JOINT CHIEFS OF STAFF	92,905	89,905	- 3,000
150	SPECIAL OPERATIONS COMMAND PROFESSIONAL DEVELOPMENT EDUCATION	31,669	31,669	
	TOTAL, BUDGET ACTIVITY 3	296,181	293,181	- 3,000
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
170	CIVIL MILITARY PROGRAMS	137,311	264,592	+ 127,281
190	DEFENSE CONTRACT AUDIT AGENCY	618,526	606,526	- 12,000
200	DEFENSE CONTRACT AUDIT AGENCY—CYBER	3,984	3,984	

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
220	DEFENSE CONTRACT MANAGEMENT AGENCY	1,438,296	1,426,296	- 12,000
230	DEFENSE CONTRACT MANAGEMENT AGENCY—CYBER	11,999	11,999	.....
240	DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY ...	941,488	931,488	- 10,000
260	DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY— CYBER	9,859	9,859	.....
270	DEFENSE HUMAN RESOURCES ACTIVITY	816,168	922,668	+ 106,500
280	DEFENSE HUMAN RESOURCES ACTIVITY—CYBER	17,655	17,655	.....
290	DEFENSE INFORMATION SYSTEMS AGENCY	1,913,734	1,885,059	- 28,675
310	DEFENSE INFORMATION SYSTEMS AGENCY—CYBER	530,278	592,378	+ 62,100
350	DEFENSE LEGAL SERVICES AGENCY	229,498	229,498	.....
360	DEFENSE LOGISTICS AGENCY	402,864	425,258	+ 22,394
370	DEFENSE MEDIA ACTIVITY	222,655	222,655	.....
380	DEFENSE PERSONNEL ACCOUNTING AGENCY	130,174	132,174	+ 2,000
390	DEFENSE SECURITY COOPERATION AGENCY	2,067,446	1,963,404	- 104,042
420	DEFENSE TECHNOLOGY SECURITY AGENCY	39,305	39,305	.....
440	DEFENSE THREAT REDUCTION AGENCY	885,749	870,749	- 15,000
460	DEFENSE THREAT REDUCTION AGENCY—CYBER	36,736	36,736	.....
470	DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	3,138,345	3,213,345	+ 75,000
490	MISSILE DEFENSE AGENCY	502,450	502,450	.....
530	OFFICE OF THE LOCAL DEFENSE COMMUNITY COOPERA- TION—OSD	89,686	184,686	+ 95,000
540	OFFICE OF THE SECRETARY OF DEFENSE	1,766,614	1,763,890	- 2,724
550	OFFICE OF THE SECRETARY OF DEFENSE—CYBER	32,851	49,575	+ 16,724
560	SPACE DEVELOPMENT AGENCY	53,851	53,851	.....
570	WASHINGTON HEADQUARTERS SERVICES	369,698	364,698	- 5,000
	CLASSIFIED PROGRAMS	17,900,146	17,624,020	- 276,126
	TOTAL, BUDGET ACTIVITY 4	34,307,366	34,348,798	+ 41,432
	PROGRAM INCREASE: IMPLEMENTATION OF THE INDE- PENDENT REVIEW COMMISSION ON SEXUAL ASSAULT IN THE MILITARY .....	.....	400,000	+ 400,000
	PROGRAM INCREASE: VIETNAM DIOXIN REMEDIATION .....	.....	15,000	+ 15,000
	PUBLIC LAW 115-68 IMPLEMENTATION .....	.....	2,100	+ 2,100
	OVERESTIMATION OF CIVILIAN FTES: SPECIAL OPERATIONS COMMAND ONLY .....	.....	- 9,696	- 9,696
	TOTAL, OPERATION AND MAINTENANCE, DEFENSE- WIDE	44,918,366	45,317,901	+ 399,535

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1PL1	Joint Chiefs of Staff	407,240	399,240	- 8,000
	Unjustified growth .....	.....	.....	- 8,000
8PL1	Joint Chiefs of Staff—CE2T2	554,634	568,634	+ 14,000
	Unjustified growth .....	.....	.....	- 4,000
	Program increase: AFRICOM joint exercise program ....	.....	.....	+ 18,000
1PL6	Special Operations Command Combat Development Activi- ties	2,044,479	2,053,479	+ 9,000
	Program increase: Subterranean training facility .....	.....	.....	+ 9,000
1PLU	Special Operations Command Intelligence	1,614,757	1,612,255	- 2,502
	Underexecution of JTWS .....	.....	.....	- 2,502
1PL7	Special Operations Command Maintenance	1,081,869	1,061,504	- 20,365
	AC-130W PSP sustainment decrease unaccounted for .....	.....	.....	- 16,348
	Overestimation of AC-130J PSP costs .....	.....	.....	- 1,448
	Unjustified growth—DCS .....	.....	.....	- 4,571

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: MC-12			+ 1,102
	Program increase: Modernized forward-look sonar			+ 900
1PLV	Special Operations Command Operational Support	1,202,060	1,183,563	- 18,497
	Underexecution of STC program			- 6,194
	Underexecution of C4IAS			- 27,303
	Program increase: Identity management			+ 15,000
1PLR	Special Operations Command Theater Forces	3,175,789	3,155,852	- 19,937
	Overestimation of flying hours			- 9,640
	Overestimation of civilian average annual salary			- 5,097
	Overestimation of 127e			- 7,700
	Program increase: Tactical rinse system for aircraft			+ 2,500
3PL1	Joint Chiefs of Staff	92,905	89,905	- 3,000
	Program decrease unaccounted for			- 3,000
4GT3	Civil Military Programs	137,311	264,592	+ 127,281
	Program increase: National Guard Youth Challenge			+ 85,281
	Program increase: STARBASE			+ 42,000
4GT6	Defense Contract Audit Agency	618,526	606,526	- 12,000
	Unjustified growth			- 12,000
4GTO	Defense Contract Management Agency	1,438,296	1,426,296	- 12,000
	Unjustified growth			- 10,000
	Program decrease unaccounted for			- 2,000
4GTE	Defense Counterintelligence and Security Agency	941,488	931,488	- 10,000
	Program decrease unaccounted for			- 10,000
4GT8	Defense Human Resources Activity	816,168	922,668	+ 106,500
	Unjustified growth			- 4,000
	Program increase: Defense Language Training Centers			+ 20,000
	Program increase: EASE			+ 10,000
	Program increase: Special Victims' Counsel			+ 46,000
	Program increase: Sexual assault prevention			+ 7,500
	Program increase: Beyond Yellow Ribbon			+ 22,000
	Program increase: Defense Suicide Prevention Office ..			+ 2,000
	Program increase: Suicide prevention with focus on rural, remote, isolated, and OCONUS installations ..			+ 3,000
4GT9	Defense Information Systems Agency	1,913,734	1,885,059	- 28,675
	Program decrease unaccounted for: Joint Enterprise Defense Infrastructure			- 45,000
	Unjustified growth			- 10,000
	Transfer: From RDDW line 203 JAIC for proper execution-Responsible AI (RAI)			+ 4,250
	Transfer: From RDDW line 203 JAIC for proper execution-Strategy and Policy			+ 4,775
	Program increase: MilCloud 2.0 migration			+ 17,300
4GU9	Defense Information Systems Agency-Cyber	530,278	592,378	+ 62,100
	Program increase: Hardening DOD networks			+ 62,100
4GTB	Defense Logistics Agency	402,864	425,258	+ 22,394
	Program increase: Procurement Technical Assistance Program			+ 22,394
4GTC	Defense Personnel Accounting Agency	130,174	132,174	+ 2,000
	Program increase: Vietnam MIA program			+ 2,000
4GTD	Defense Security Cooperation Agency	2,067,446	1,963,404	- 104,042
	Unjustified growth-Regional Defense Fellowship Program			- 1,356
	Unjustified request-International Security Cooperation Program-Afghanistan			- 6,686
	Lift and Sustain program adjustment			- 125,000
	Coalition Support Funds unjustified request			- 60,000
	Program increase: Center for Arctic Security Studies ..			+ 10,000
	Program increase: Regional Centers cybersecurity capacity building			+ 3,000
	Program increase: Institute for Security Governance cybersecurity capacity building			+ 5,000
	Program increase: Irregular Warfare Functional Center			+ 10,000
	Program increase: Northern Triangle border security ..			+ 8,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Authorization adjustment: Ukraine Security Assistance Initiative			+ 50,000
	Program increase: International Security Cooperation Programs—Women’s programs			+ 3,000
4GTI	Defense Threat Reduction Agency	885,749	870,749	– 15,000
	Program decrease unaccounted for			– 15,000
4GTJ	Department of Defense Education Activity	3,138,345	3,213,345	+ 75,000
	Program increase: World language advancement and readiness grants program			+ 5,000
	Program increase: Impact Aid			+ 50,000
	Program increase: Impact Aid for children with severe disabilities			+ 20,000
4GTM	Office of Local Defense Community Cooperation	89,686	184,686	+ 95,000
	Program increase: Defense Manufacturing Community Support Program			+ 30,000
	Program increase: Reappropriation of Noise Mitigation Community Partnership			+ 5,000
	Program increase: Defense Community Infrastructure Program			+ 40,000
	Program increase: OLDCC restore defense-wide review reductions			+ 20,000
4GTN	Office of the Secretary of Defense	1,766,614	1,763,890	– 2,724
	Unjustified growth: Non-pay			– 10,000
	Transfer: OSD requested to OSD CYBER line			– 16,724
	Program increase: Emerging Contaminants Program			+ 4,000
	Program increase: Military spouse licensures			+ 3,000
	Program increase: CDC water contamination study and assessment			+ 15,000
	Program Increase: Commission on Planning, Programming, Budgeting, and Execution Reform			+ 2,000
4GTC	Office of the Secretary of Defense—Cyber	32,851	49,575	+ 16,724
	Transfer: OSD requested from OSD non-CYBER line			+ 16,724
4GTQ	Washington Headquarters Services	369,698	364,698	– 5,000
	Unjustified growth			– 5,000
999	Classified Programs	17,900,146	17,624,020	– 276,126
	Classified program adjustment			– 276,126
UNDIST	Overestimation of civilian FTEs: Special Operations Command only		– 9,696	– 9,696
UNDIST	Program increase: Implementation of the Independent Review Commission on Sexual Assault in the Military		400,000	+ 400,000
UNDIST	Program increase: Vietnam dioxin remediation		15,000	+ 15,000
UNDIST	Program increase: Public Law 115–68 implementation		2,100	+ 2,100

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 servicemembers 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 provided for the Language Training Centers as a congressional special interest item. The Committee further directs that the funding profiles for the Language Training Centers and the Language Flagship Program 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.

Defense Community Infrastructure Program.—The Committee notes the important connection between local defense community infrastructure and community support to military readiness and is concerned that the Department of Defense’s priorities for such infrastructure investments are undefined given the costs of individual projects coupled with the cumulative total for all potential such projects. To that end, the Committee directs the Director of the Office of Local Defense Community Cooperation to provide a report that details the Department’s priorities for allocating the limited resources within this program prior to the award of fiscal year 2022 grant awards, and with submission of the fiscal year 2023 President’s budget request. Further, the Committees on Appropriations of the House of Representatives and the Senate shall be briefed on the contents of the report and the Department’s methodology for prioritization not later than 30 days following the release of the report.

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 report to the Committees on Appropriations of the House of Representatives and the Senate, not later than 30 days after the enactment of this act, to update the initiative established under Section 550D of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116–92). The report 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 Directors of the Defense Manpower Data Center and the Defense Civilian Personnel Advisory Service to consider the use of private sector technology solutions to provide verifications of the employment status and income of civilian and military personnel and retirees as permitted under the Fair Credit Reporting Act.

Readiness and Environmental Protection Integration Program.—The Committee recommendation fully funds the \$150,000,000 included in the fiscal year 2022 President’s budget request for the Readiness and Environmental Protection Integration Program and designates this funding as a congressional special interest item.

Ex Gratia Payments.—The Committee recommendation includes sufficient funding for the Office of the Secretary of Defense under Operation and Maintenance, Defense-Wide, for payments made to redress injury and loss pursuant to section 1213 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116–92).

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.

AFGHANISTAN SECURITY FORCES FUND

Budget estimate, 2022 \$3,327,810,000
 Committee recommendation

The Committee recommends no appropriation for the Afghanistan Security Forces Fund.

Afghanistan Security Forces Fund.—The Committee provides no funding for the Afghanistan Security Forces Fund [ASFF] in fiscal year 2022, and rescinds \$500,000,000 from the fiscal year 2021 ASFF appropriation, in light of the recent dissolution of the Afghanistan National Security Forces [ANSF]. The Committee has preserved sufficient ASFF balances to allow the Department of Defense to closeout Afghanistan-related contracts. The Committee is concerned with the disposition of United States property, equipment, and supplies, including property, equipment, and supplies provided to the ANSF, which were destroyed, taken out of Afghanistan, or remain in Afghanistan following the United States military withdrawal. The Committee understands that the Department of Defense’s review of these inventories is ongoing, and directs the Secretary of Defense to provide a report to the congressional defense committees not later than 30 days after concluding the review that lays out the Department’s conclusions regarding such property, equipment, and supplies. The report should include an estimate of any costs beyond fiscal year 2022 for closeout activities related to such items.

COUNTER-ISIS TRAIN AND EQUIP FUND

Budget estimate, 2022 \$522,000,000
 Committee recommendation 492,000,000

The Committee recommends an appropriation of \$492,000,000. This is \$30,000,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table details the program recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Iraq	345,000	345,000	.....
	Syria	177,000	147,000	– 30,000
	Unjustified growth: stipends .....	.....	.....	– 30,000
	Total, Counter-ISIS Train and Equip Fund	522,000	492,000	– 30,000

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. The Committee notes, however, that the program continues to have challenges with program execution. Therefore, the Committee recommends a rescission of \$355,000,000 for unexecuted balances.

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 Secretary of Defense to notify the congressional defense committees no later than 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 Secretary of Defense to engage with the SDF on ensuring that detainees are afforded all protections due under the Geneva Conventions.

OPERATION AND MAINTENANCE, ARMY RESERVE

Budget estimate, 2022	\$3,000,635,000
Committee recommendation	3,008,635,000

The Committee recommends an appropriation of \$3,008,635,000. This is \$8,000,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, ARMY RESERVE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	LAND FORCES			
10	MODULAR SUPPORT BRIGADES	10,465	10,465	.....
20	ECHELONS ABOVE BRIGADES	554,992	554,992	.....
30	THEATER LEVEL ASSETS	120,892	120,892	.....
40	LAND FORCES OPERATIONS SUPPORT	597,718	597,718	.....
50	AVIATION ASSETS	111,095	111,095	.....
	LAND FORCES READINESS			
60	FORCES READINESS OPERATIONS SUPPORT	385,506	385,506	.....
70	LAND FORCES SYSTEM READINESS	98,021	98,021	.....
80	DEPOT MAINTENANCE	34,368	34,368	.....
	LAND FORCES READINESS SUPPORT			
90	BASE OPERATIONS SUPPORT	584,513	579,513	- 5,000
100	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	342,433	379,433	+ 37,000
110	MANAGEMENT AND OPERATIONS HEADQUARTERS	22,472	22,472	.....
120	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	2,764	2,764	.....
130	CYBERSPACE ACTIVITIES—CYBERSECURITY	7,476	7,476	.....
	TOTAL, BUDGET ACTIVITY 1	2,872,715	2,904,715	+ 32,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	LOGISTICS OPERATIONS			
140	SERVICEWIDE TRANSPORTATION	15,400	15,400	.....
150	ADMINISTRATION	19,611	15,611	- 4,000
160	SERVICEWIDE COMMUNICATIONS	37,458	37,458	.....
170	MANPOWER MANAGEMENT	7,162	7,162	.....
180	OTHER PERSONNEL SUPPORT	48,289	48,289	.....
	TOTAL, BUDGET ACTIVITY 4	127,920	123,920	- 4,000
	UNJUSTIFIED GROWTH .....	.....	- 20,000	- 20,000
	TOTAL, OPERATION AND MAINTENANCE, ARMY RE-SERVE	3,000,635	3,008,635	+ 8,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
131	Base Operations Support	584,513	579,513	- 5,000
	Unjustified growth .....	.....	.....	- 5,000
132	Facilities Sustainment, Restoration & Modernization	342,433	379,433	+ 37,000
	Program increase: FSRM .....	.....	.....	+ 37,000
431	Administration	19,611	15,611	- 4,000
	Unjustified growth .....	.....	.....	- 4,000
UNDIST	Unjustified growth .....	.....	- 20,000	- 20,000

OPERATION AND MAINTENANCE, NAVY RESERVE

Budget estimate, 2022 \$1,148,698,000
 Committee recommendation 1,130,198,000

The Committee recommends an appropriation of \$1,130,198,000. This is \$18,500,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, NAVY RESERVE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	OPERATING FORCES			
10	MISSION AND OTHER FLIGHT OPERATIONS	628,522	603,522	- 25,000
20	INTERMEDIATE MAINTENANCE	9,593	9,593	.....
30	AIRCRAFT DEPOT MAINTENANCE	135,280	135,280	.....
40	AIRCRAFT DEPOT OPERATIONS SUPPORT	497	497	.....
50	AVIATION LOGISTICS	29,435	29,435	.....
70	COMBAT COMMUNICATIONS	18,469	18,469	.....
80	COMBAT SUPPORT FORCES	136,710	136,710	.....
90	CYBERSPACE ACTIVITIES	440	440	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
100	ENTERPRISE INFORMATION	26,628	26,628	.....
110	SUSTAINMENT, RESTORATION & MODERNIZATION	42,311	48,811	+ 6,500
120	BASE OPERATING SUPPORT	103,606	103,606	.....
	TOTAL, BUDGET ACTIVITY 1	1,131,491	1,112,991	- 18,500
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
130	ADMINISTRATION	1,943	1,943	.....
140	MILITARY MANPOWER & PERSONNEL MANAGEMENT	12,191	12,191	.....
150	ACQUISITION AND PROGRAM MANAGEMENT	3,073	3,073	.....
	TOTAL, BUDGET ACTIVITY 4	17,207	17,207	.....
	TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE	1,148,698	1,130,198	- 18,500

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1A1A	Mission and Other Flight Operations	628,522	603,522	- 25,000
	Program decrease unaccounted for .....	.....	.....	- 25,000
BSMR	Sustainment, Restoration and Modernization	42,311	48,811	+ 6,500
	Program increase: FSRM .....	.....	.....	+ 6,500

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

Budget estimate, 2022 \$285,050,000
 Committee recommendation 335,450,000

The Committee recommends an appropriation of \$335,450,000. This is \$50,400,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, MARINE CORPS RESERVE			
	BUDGET ACTIVITY 1: OPERATING FORCES			
10	OPERATING FORCES	102,271	102,271	.....
20	DEPOT MAINTENANCE	16,811	16,811	.....
30	SUSTAINMENT, RESTORATION & MODERNIZATION	42,702	49,202	+ 6,500
40	BASE OPERATING SUPPORT	109,210	107,210	- 2,000
	TOTAL, BUDGET ACTIVITY 1	270,994	275,494	+ 4,500

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
50	ADMINISTRATION	14,056	14,056	.....
	TOTAL, BUDGET ACTIVITY 4	14,056	14,056	.....
	PROGRAM INCREASE: READINESS/OPERATIONAL SHORTFALLS		45,900	+ 45,900
	TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE	285,050	335,450	+ 50,400

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
BSM1	Sustainment, Restoration and Modernization	42,702	49,202	+ 6,500
	Program increase: FSRM			+ 6,500
BSS1	Base Operating Support	109,210	107,210	- 2,000
	Unjustified growth			- 2,000
UNDIST	Program increase: Readiness/operational shortfalls		45,900	+ 45,900

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Budget estimate, 2022 \$3,352,106,000
 Committee recommendation 3,317,106,000

The Committee recommends an appropriation of \$3,317,106,000. This is \$35,000,000 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	2022 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	1,665,015	1,636,015	- 29,000
20	MISSION SUPPORT OPERATIONS	179,486	179,486	.....
30	DEPOT PURCHASE EQUIPMENT MAINTENANCE	530,540	530,540	.....
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	114,987	129,987	+ 15,000
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT ...	254,831	254,831	.....
60	BASE SUPPORT	470,801	464,801	- 6,000
70	CYBERSPACE ACTIVITIES	1,372	1,372	.....
	TOTAL, BUDGET ACTIVITY 1	3,217,032	3,197,032	- 20,000
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
80	ADMINISTRATION	91,289	91,289	.....
90	RECRUITING AND ADVERTISING	23,181	23,181	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
100	MILITARY MANPOWER AND PERS MGMT (ARPC)	13,966	13,966	.....
110	OTHER PERS SUPPORT (DISABILITY COMP)	6,196	6,196	.....
120	AUDIOVISUAL	442	442	.....
	TOTAL, BUDGET ACTIVITY 4	135,074	135,074	.....
	UNJUSTIFIED GROWTH		- 15,000	- 15,000
	TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE	3,352,106	3,317,106	- 35,000

COMMITTEE RECOMMENDED ADJUSTMENTS

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
011A	Primary Combat Forces	1,665,015	1,636,015	- 29,000
	Unjustified growth			- 13,000
	Program decrease unaccounted for			- 16,000
011R	Facilities Sustainment, Restoration & Modernization	114,987	129,987	+ 15,000
	Program increase: FSRM			+ 15,000
011Z	Base Support	470,801	464,801	- 6,000
	Unjustified growth			- 6,000
UNDIST	Unjustified growth		- 15,000	- 15,000

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

Budget estimate, 2022 \$7,647,209,000
Committee recommendation 7,705,193,000

The Committee recommends an appropriation of \$7,705,193,000.
This is \$57,984,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	LAND FORCES			
10	MANEUVER UNITS	799,854	799,854	.....
20	MODULAR SUPPORT BRIGADES	211,561	211,561	.....
30	ECHELONS ABOVE BRIGADE	835,709	825,709	- 10,000
40	THEATER LEVEL ASSETS	101,179	101,179	.....
50	LAND FORCES OPERATIONS SUPPORT	34,436	34,436	.....
60	AVIATION ASSETS	1,110,416	1,095,416	- 15,000
	LAND FORCES READINESS			
70	FORCE READINESS OPERATIONS SUPPORT	704,827	686,861	- 17,966
80	LAND FORCES SYSTEMS READINESS	47,886	47,886	.....
90	LAND FORCES DEPOT MAINTENANCE	244,439	244,439	.....
	LAND FORCES READINESS SUPPORT			
100	BASE OPERATIONS SUPPORT	1,097,960	1,083,610	- 14,350
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	956,988	1,060,988	+ 104,000
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS	1,047,870	1,050,770	+ 2,900

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
130	CYBERSPACE ACTIVITIES—CYBERSPACE OPERATIONS	8,071	10,071	+ 2,000
140	CYBERSPACE ACTIVITIES—CYBERSECURITY	7,828	7,828	.....
	TOTAL, BUDGET ACTIVITY 1	7,209,024	7,260,608	+ 51,584
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
150	SERVICEWIDE TRANSPORTATION	8,017	8,017	.....
160	ADMINISTRATION	76,993	76,993	.....
170	SERVICEWIDE COMMUNICATIONS	101,113	96,113	- 5,000
180	MANPOWER MANAGEMENT	8,920	8,920	.....
190	OTHER PERSONNEL SUPPORT	240,292	240,292	.....
200	REAL ESTATE MANAGEMENT	2,850	2,850	.....
	TOTAL, BUDGET ACTIVITY 4	438,185	433,185	- 5,000
	PROGRAM INCREASE: READINESS/OPERATIONAL SHORTFALLS		11,400	+ 11,400
	TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD	7,647,209	7,705,193	+ 57,984

COMMITTEE RECOMMENDED ADJUSTMENTS

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
111	Maneuver Units	799,854	799,854	.....
	Program increase: Exercise Northern Strike			+ 7,000
	Program decrease unaccounted for			- 7,000
113	Echelons Above Brigade	835,709	825,709	- 10,000
	Unjustified growth			- 10,000
116	Aviation Assets	1,110,416	1,095,416	- 15,000
	Unjustified growth			- 15,000
121	Force Readiness Operations Support	704,827	686,861	- 17,966
	Program decrease unaccounted for			- 20,000
	Program increase: Advanced trauma and public health direct training services			+ 534
	Program increase: Wildfire training			+ 1,500
131	Base Operations Support	1,097,960	1,083,610	- 14,350
	Unjustified growth			- 15,000
	Program increase: AFFF disposal			+ 650
132	Facilities Sustainment, Restoration & Modernization	956,988	1,060,988	+ 104,000
	Program increase: FSRM			+ 104,000
133	Management and Operational Headquarters	1,047,870	1,050,770	+ 2,900
	Program increase: Prevention workforce			+ 1,600
	Program increase: Sexual assault prevention and response			+ 1,300
151	Cyberspace Activities—Cyberspace Operations	8,071	10,071	+ 2,000
	Program increase: Pilot program for remote provision of cybersecurity technical assistance			+ 2,000
432	Servicewide Communications	101,113	96,113	- 5,000
	Unjustified growth			- 5,000
UNDIST	Program increase: Readiness/operational shortfalls		11,400	+ 11,400

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 82 unique security partnerships involving 89 nations around the globe. The Committee recognizes the impor-

tance of SPP and encourages continued robust support of this important partnership program.

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Budget estimate, 2022 \$6,574,020,000
Committee recommendation 6,678,660,000

The Committee recommends an appropriation of \$6,678,660,000. This is \$104,640,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE, AIR NATIONAL GUARD			
	BUDGET ACTIVITY 1: OPERATING FORCES			
	AIR OPERATIONS			
10	AIRCRAFT OPERATIONS	2,281,432	2,281,432	.....
20	MISSION SUPPORT OPERATIONS	582,848	593,788	+ 10,940
30	DEPOT PURCHASE EQUIPMENT MAINTENANCE	1,241,318	1,226,318	- 15,000
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	353,193	390,693	+ 37,500
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT ...	1,077,654	1,057,654	- 20,000
60	BASE SUPPORT	908,198	915,398	+ 7,200
70	CYBERSPACE SUSTAINMENT	23,895	23,895	.....
80	CYBERSPACE ACTIVITIES	17,263	17,263	.....
	TOTAL, BUDGET ACTIVITY 1	6,485,801	6,506,441	+ 20,640
	BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
90	ADMINISTRATION	46,455	46,455	.....
100	RECRUITING AND ADVERTISING	41,764	41,764	.....
	TOTAL, BUDGET ACTIVITY 4	88,219	88,219	.....
	UNJUSTIFIED GROWTH		- 15,000	- 15,000
	AUTHORIZATION ADJUSTMENT: RETAIN EIGHT C-130H		19,000	+ 19,000
	PROGRAM INCREASE: READINESS/OPERATIONAL SHORTFALLS		80,000	+ 80,000
	TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD	6,574,020	6,678,660	+ 104,640

COMMITTEE RECOMMENDED ADJUSTMENTS

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
011G	Mission Support Operations	582,848	593,788	+ 10,940
	Program increase: Advanced trauma and public health direct training services			+ 1,800
	Program increase: Joint Terminal Attack Controller training			+ 8,000
	Program increase: Wildfire training			+ 1,140
011M	Depot Purchase Equipment Maintenance	1,241,318	1,226,318	- 15,000
	Unjustified growth			- 15,000
011R	Facilities Sustainment, Restoration & Modernization	353,193	390,693	+ 37,500
	Program increase: FSRM			+ 37,500
011W	Contractor Logistics Support and System Support	1,077,654	1,057,654	- 20,000
	Unjustified growth			- 20,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
011Z	Base Support	908,198	915,398	+ 7,200
	Program increase: Prevention workforce .....	.....	.....	+ 900
	Program increase: Sexual assault prevention and response .....	.....	.....	+ 500
	Program increase: Pilot program for remote provision of cybersecurity technical assistance .....	.....	.....	+ 2,000
	Program increase: HMMWV modernization program .....	.....	.....	+ 3,800
UNDIST	Unjustified growth .....	.....	- 15,000	- 15,000
UNDIST	Program increase: Readiness/operational shortfalls .....	.....	80,000	+ 80,000
UNDIST	Authorization adjustment: Retain eight C-130H .....	.....	19,000	+ 19,000

U.S. COURT OF APPEALS FOR THE ARMED FORCES

Budget estimate, 2022 \$15,589,000
 Committee recommendation 15,589,000

The Committee recommends an appropriation of \$15,589,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, ARMY

Budget estimate, 2022 \$200,806,000
 Committee recommendation 299,606,000

The Committee recommends an appropriation of \$299,606,000. This is \$98,800,000 above the budget estimate for the Army and Army National Guard to address costs associated with remediating contamination caused by per- and polyfluoroalkyl substances.

ENVIRONMENTAL RESTORATION, NAVY

Budget estimate, 2022 \$298,250,000
 Committee recommendation 465,550,000

The Committee recommends an appropriation of \$465,550,000. This is \$167,300,000 above the budget estimate for the Navy to address costs associated with remediating contamination caused by per- and polyfluoroalkyl substances.

ENVIRONMENTAL RESTORATION, AIR FORCE

Budget estimate, 2022 \$301,768,000
 Committee recommendation 796,568,000

The Committee recommends an appropriation of \$796,568,000. This is \$494,800,000 above the budget estimate for the Air Force and Air National Guard to address costs associated with remediating contamination caused by per- and polyfluoroalkyl substances.

ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

Budget estimate, 2022 \$8,783,000
 Committee recommendation 8,783,000

The Committee recommends an appropriation of \$8,783,000. This is equal to the budget estimate.

ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

Budget estimate, 2022 \$218,580,000
 Committee recommendation 218,580,000

The Committee recommends an appropriation of \$218,580,000.
 This is equal to the budget estimate.

OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

Budget estimate, 2022 \$110,051,000
 Committee recommendation 110,051,000

The Committee recommends an appropriation of \$110,051,000.
 This is equal to the budget estimate.

COOPERATIVE THREAT REDUCTION ACCOUNT

Budget estimate, 2022 \$239,849,000
 Committee recommendation 239,849,000

The Committee recommends an appropriation of \$239,849,000.
 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	2022 budget estimate	Committee recommendation	Change from budget estimate
Strategic Offensive Arms Elimination	2,997	2,997	.....
Chemical Security and Elimination	13,250	13,250	.....
Global Nuclear Security	17,767	17,767	.....
Biological Threat Reduction Program	124,022	124,022	.....
Proliferation Prevention Program	58,754	58,754	.....
Other Assessments/Admin Costs	23,059	23,059	.....
Total, Cooperative Threat Reduction Account	239,849	239,849	.....

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT

Budget estimate, 2022 \$54,679,000
 Committee recommendation 56,679,000

The Committee recommends an appropriation of \$56,679,000.
 This is \$2,000,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Training and Development	51,840	51,840	.....
2	Retention and Recognition	1,395	1,395	.....
3	Recruiting and Hiring	1,444	3,444	+ 2,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Diversity STEM talent development			+ 2,000
	Total, Department of Defense Acquisition Workforce Development Account	54,679	56,679	+ 2,000

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 2023 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 2023 President’s budget request additional details regarding total funding for the acquisition workforce by funding category and specific appropriations accounts in the Future Years Defense Program, to include an explanation of changes from prior year’s submission.

Department of Defense Acquisition Workforce Development Account Reprogramming Guidance.—The Secretary of Defense is directed to follow reprogramming guidance for the Department of Defense Acquisition Workforce Development Account [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 2022 budget requests a total of \$132,546,005,000 for procurement appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends procurement appropriations totaling \$141,510,173,000 for fiscal year 2022. This is \$8,964,168,000 above the budget estimate.

Committee recommended procurement appropriations for fiscal year 2022 are summarized below:

SUMMARY OF PROCUREMENT APPROPRIATIONS

[In thousands of dollars]

Account	2022 budget estimate	Committee recommendation	Change from budget estimate
Procurement:			
Aircraft Procurement, Army	2,806,452	2,786,952	- 19,500
Missile Procurement, Army	3,556,251	3,487,796	- 68,455
Procurement of Weapons and Tracked Combat Vehicles, Army	3,875,893	4,250,563	+ 374,670
Procurement of Ammunition, Army	2,158,110	2,074,163	- 83,947
Other Procurement, Army	8,873,558	8,496,987	- 376,571
Aircraft Procurement, Navy	16,477,178	17,710,805	+ 1,233,627
Weapons Procurement, Navy	4,220,705	4,134,152	- 86,553
Procurement of Ammunition, Navy and Marine Corps	988,018	853,620	- 134,398
Shipbuilding and Conversion, Navy	22,571,059	25,559,000	+ 2,987,941
Other Procurement, Navy	10,875,912	11,349,471	+ 473,559
Procurement, Marine Corps	3,043,091	3,496,614	+ 453,523
Aircraft Procurement, Air Force	15,727,669	17,311,222	+ 1,583,553
Missile Procurement, Air Force	2,669,811	2,584,306	- 85,505
Procurement of Ammunition, Air Force	795,168	667,227	- 127,941
Other Procurement, Air Force	25,251,137	26,367,426	+ 1,116,289
Procurement, Space Force	2,766,854	2,728,549	- 38,305
Procurement, Defense-Wide	5,548,212	5,898,393	+ 350,181
Defense Production Act Purchases	340,927	302,927	- 38,000
National Guard and Reserve Equipment .....	.....	1,450,000	+ 1,450,000
Total	132,546,005	141,510,173	+ 8,964,168

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

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

threshold for reprogramming funds will remain at \$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

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.

Active hearing protection.—The Committee notes that despite recognition by the military services of the importance of using hearing protection, hearing loss and auditory injuries are persistent military issues. Therefore, the Committee encourages the Service Secretaries to pursue the use of commercial-off-the-shelf, active hearing protection products to protect the hearing of our military men and women.

Aircraft Pricing.—The Committee recommends an increase of \$1,828,800,000 within Aircraft Procurement, Air Force for 16 additional C–130J aircraft for Air National Guard Squadrons, as well as increases within the Aircraft Procurement, Navy account of \$334,400,000 for four additional CMV–22 aircraft for the Navy and \$418,000,000 for five additional MV–22 aircraft for the Marine Corps. The Committee notes that both the C–130 and V–22 programs are executing multi-year procurement contracts that achieve significant unit cost savings. The Committee encourages the Secretary of the Navy and Air Force to work with the industrial base to continue to achieve unit cost savings for these recommended increases in annual production.

AIRCRAFT PROCUREMENT, ARMY

Budget estimate, 2022	\$2,806,452,000
Committee recommendation	2,786,952,000

The Committee recommends an appropriation of \$2,786,952,000. This is \$19,500,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	AIRCRAFT PROCUREMENT, ARMY						
	AIRCRAFT						
	FIXED WING						
4	SMALL UNMANNED AIRCRAFT SYSTEM		16,005		16,005		
	ROTARY						
7	AH-64 APACHE BLOCK IIIA REMAN	30	504,136		479,136		-25,000
8	AH-64 APACHE BLOCK IIIA REMAN [AP-CY]		192,230	30	192,230		
10	UH-60 BLACKHAWK [MYP]	24	630,263		630,263		
11	UH-60 BLACKHAWK [MYP] [AP-CY]		146,068	24	146,068		
12	UH-60 BLACKHAWK L AND V MODELS	24	166,205		166,205		
13	CH-47 HELICOPTER	6	145,218		145,218		
14	CH-47 HELICOPTER [AP-CY]		18,559	6	18,559		
	TOTAL, AIRCRAFT		1,818,684		1,793,684		-25,000
	MODIFICATION OF AIRCRAFT						
17	GRAY EAGLE MODS2		3,143		3,143		
18	MULTI SENSOR ABN RECON		127,665		125,665		-2,000
19	AH-64 MODS		118,560		118,560		
20	CH-47 CARGO HELICOPTER MODS [MYP]		9,918		11,918		+2,000
21	GRCS SEMA MODS		2,762		2,762		
22	ARL SEMA MODS		9,437		9,437		
23	EMARSS SEMA MODS		1,568		1,568		
24	UTILITY/CARGO AIRPLANE MODS		8,530		8,530		
25	UTILITY HELICOPTER MODS		15,826		25,326		+9,500
26	NETWORK AND MISSION PLAN		29,206		29,206		
27	COMMS, NAV SURVEILLANCE		58,117		58,117		
29	AVIATION ASSURED PNT		47,028		47,028		
30	GATM ROLLUP		16,776		16,776		
32	UAS MODS		3,840		3,840		
	TOTAL, MODIFICATION OF AIRCRAFT		452,376		461,876		+9,500

	SUPPORT EQUIPMENT AND FACILITIES							
	GROUND SUPPORT AVIONICS							
33	AIRCRAFT SURVIVABILITY EQUIPMENT	64,561		62,961				-1,600
34	SURVIVABILITY CM	5,104		5,104				
35	CMWS	148,570		148,570				
36	COMMON INFRARED COUNTERMEASURES (CIRCUM)	240,412	120	238,012	120			-2,400
	OTHER SUPPORT							
38	COMMON GROUND EQUIPMENT	13,561		13,561				
39	AIRCREW INTEGRATED SYSTEMS	41,425		41,425				
40	AIR TRAFFIC CONTROL	21,759		21,759				
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES	535,392		531,392				-4,000
	TOTAL, AIRCRAFT PROCUREMENT, ARMY	2,806,452		2,786,952				-19,500

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
7	AH-64 Apache Block IIIA Reman	504,136	479,136	- 25,000
	Program growth			- 25,000
18	MULTI SENSOR ABN RECON	127,665	125,665	- 2,000
	Cost growth			- 2,000
20	CH-47 Cargo Helicopter Mods [MYP]	9,918	11,918	+ 2,000
	Program increase: Improved vibration control			+ 2,000
25	Utility Helicopter Mods	15,826	25,326	+ 9,500
	Program increase: UH-60 generators			+ 9,500
33	Aircraft Survivability Equipment	64,561	62,961	- 1,600
	Cost growth			- 1,600
36	Common Infrared Countermeasures (CIRCM)	240,412	238,012	- 2,400
	Training support cost growth			- 2,400

Chinook Block II.—The Committee remains supportive of the CH-47 Block II upgrade program and supports efforts to address developmental issues identified with the advanced Chinook rotor blade during test. The Committee supports the Army's plans to put additional aircraft added by the Department of Defense Appropriations Act, 2021 (Public Law 116-260) on contract in the coming months. The Committee recognizes that the Army is investing in its modernization priorities, however without a clear path to a new heavy lift platform, incremental improvements to the Army's existing rotorcraft to increase capability through the Block II program should be considered a priority. The Committee strongly encourages the Secretary of the Army to support the Chinook program by providing the necessary resources to procure the next production buy of Block II in the fiscal year 2023 President's budget request.

MISSILE PROCUREMENT, ARMY

Budget estimate, 2022	\$3,556,251,000
Committee recommendation	3,487,796,000

The Committee recommends an appropriation of \$3,487,796,000. This is \$68,455,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	MISSILE PROCUREMENT, ARMY						
	OTHER MISSILES						
	SURFACE-TO-AIR MISSILE SYSTEM						
2	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SEN		35,473		35,473		
3	M-SHORAD—PROCUREMENT	37	331,575	37	331,575		
4	MSE MISSILE	180	776,696	180	776,696		
5	PRECISION STRIKE MISSILE (PRSM)	110	166,130	110	166,130		
6	INDIRECT FIRE PROTECTION CAPABILITY INC 2—1		25,253		25,253		
	AIR-TO-SURFACE MISSILE SYSTEM						
7	HELLFIRE SYS SUMMARY	802	118,800	802	118,800		
8	JOINT AIR-TO-GROUND MSLs (JAGM)	386	152,177	386	152,177		
9	LONG RANGE PRECISION MUNITION	179	44,744	179	44,744		
	ANTI-TANK/ASSAULT MISSILE SYSTEM						
10	JAVELIN (AAWS-M) SYSTEM SUMMARY	376	120,842	376	130,842		+ 10,000
11	TOW 2 SYSTEM SUMMARY	887	104,412	887	104,412		
12	GUIDED MLRS ROCKET (GMLRS)	5817	935,917	5817	880,354		- 55,563
13	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR)	3048	29,574	3048	29,574		
14	HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)	19	128,438	19	128,438		
16	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	900	68,278	900	45,386		- 22,892
	TOTAL, OTHER MISSILES		3,038,309		2,969,854		- 68,455
	MODIFICATION OF MISSILES						
	MODIFICATIONS						
17	PATRIOT MODS		205,469		205,469		
21	AVENGER MODS		11,227		11,227		
22	ITAS/TOW MODS		4,561		4,561		
23	MLRS MODS		273,856		273,856		
24	HIMARS MODIFICATIONS		7,192		7,192		
	TOTAL, MODIFICATION OF MISSILES		502,305		502,305		

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
25	SPARES AND REPAIR PARTS		5,019		5,019		
	SPARES AND REPAIR PARTS						
26	SUPPORT EQUIPMENT AND FACILITIES		10,618		10,618		
	AIR DEFENSE TARGETS						
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES		10,618		10,618		
	TOTAL, MISSILE PROCUREMENT, ARMY		3,556,251		3,487,796		-68,455

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
10	Javelin (AAWS-M) System Summary	120,842	130,842	+ 10,000
	Program increase: Tooling for G Model Upgrade .....	.....	.....	+ 10,000
12	Guided MLRS Rocket (GMLRS)	935,917	880,354	- 55,563
	Unit cost adjustment .....	.....	.....	- 105,563
	Program increase: Additional AURs .....	.....	.....	+ 50,000
16	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	68,278	45,386	- 22,892
	Unit cost adjustment .....	.....	.....	- 22,892

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

Budget estimate, 2022 \$3,875,893,000
Committee recommendation 4,250,563,000

The Committee recommends an appropriation of \$4,250,563,000.
This is \$374,670,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY						
	TRACKED COMBAT VEHICLES						
1	ARMORED MULTI PURPOSE VEHICLE (AMPV)		104,727		90,127		- 14,600
2	ASSAULT BREACHER VEHICLE (ABV)		16,454		16,454		
3	MOBILE PROTECTED FIREPOWER	23	286,977	23	286,977		
	MODIFICATION OF TRACKED COMBAT VEHICLES						
5	STRYKER UPGRADE	187	1,005,028	187	977,328		- 27,700
6	BRADLEY PROGRAM (MOD)		461,385		472,785		+ 11,400
7	M109 FOV MODIFICATIONS		2,534		2,534		
8	PALADIN INTEGRATED MANAGEMENT (PIM)	25	446,430	48	662,900	+ 23	+ 216,470
9	IMPROVED RECOVERY VEHICLE (M88A2 HERCULES)		52,059		52,059		
10	ASSAULT BRIDGE (MOD)		2,136		2,136		
13	JOINT ASSAULT BRIDGE	23	110,773	23	110,773		
15	ABRAMS UPGRADE PROGRAM	70	981,337	90	1,156,337	+ 20	+ 175,000
16	VEHICLE PROTECTION SYSTEMS (VPS)		80,286		80,286		
	TOTAL, TRACKED COMBAT VEHICLES		3,550,126		3,910,696		+ 360,570
	WEAPONS AND OTHER COMBAT VEHICLES						
17	M240 MEDIUM MACHINE GUN (762MM)		31,623		10,500		+ 10,500
18	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS		37,485		37,485		
19	MORTAR SYSTEMS		8,666		8,666		
20	XM320 GRENADE LAUNCHER MODULE (GLM)		11,040		10,040		- 1,000
21	PRECISION SNIPER RIFLE		4,434		4,434		
23	CARBINE		97,087		97,087		
24	NEXT GENERATION SQUAD WEAPON		4,930		4,930		
26	HANDGUN						
	MOD OF WEAPONS AND OTHER COMBAT VEH						
27	MK-19 GRENADE MACHINE GUN MODS		13,027		23,027		+ 10,000
28	M777 MODS		21,976		16,576		- 5,400
30	M2 50 CAL MACHINE GUN MODS		3,612		3,612		
	SUPPORT EQUIPMENT AND FACILITIES						
36	ITEMS LESS THAN \$50M (WOCV-WTCV)		1,068		1,068		

37	PRODUCTION BASE SUPPORT (WOCV-WTCV)	90,819	90,819	90,819	.....
	TOTAL, WEAPONS AND OTHER COMBAT VEHICLES	325,767	339,867	.....	+ 14,100
	TOTAL, PROCUREMENT OF W&TCV, ARMY	3,875,893	4,250,563	.....	+ 374,670

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Armored Multi Purpose Vehicle (AMPV)	104,727	90,127	- 14,600
	Change orders early to need			- 14,600
5	Stryker Upgrade	1,005,028	977,328	- 27,700
	CROWS-J cost growth			- 7,500
	Engineering support early to need			- 20,200
6	Bradley Program (MOD)	461,385	472,785	+ 11,400
	Mobility modifications early to need			- 8,600
	Program increase: Bradley program modifications			+ 20,000
8	Paladin Integrated Management (PIM)	446,430	662,900	+ 216,470
	Unit cost growth			- 11,000
	Program increase: Additional 23 PIM			+ 227,470
15	Abrams Upgrade Program	981,337	1,156,337	+ 175,000
	Program increase: Additional 20 Abrams			+ 175,000
17	M240 Medium Machine Gun (7.62mm)		10,500	+ 10,500
	Program increase: M240 machine guns			+ 10,500
21	Precision Sniper Rifle	11,040	10,040	- 1,000
	Unit cost growth			- 1,000
27	MK-19 Grenade Machine Gun MODS	13,027	23,027	+ 10,000
	Program increase: MK93 machine gun mounts			+ 10,000
28	M777 Mods	21,976	16,576	- 5,400
	Unjustified cost growth			- 5,400

PROCUREMENT OF AMMUNITION, ARMY

Budget estimate, 2022 \$2,158,110,000
 Committee recommendation 2,074,163,000

The Committee recommends an appropriation of \$2,074,163,000. This is \$83,947,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	AMMUNITION						
	PROCUREMENT OF AMMUNITION, ARMY						
	SMALL/MEDIUM CAL AMMUNITION						
1	CTG. 556MM, ALL TYPES	47,490	44,626				-2,864
2	CTG. 762MM, ALL TYPES	74,870	67,993				-6,877
3	NEXT GENERATION SQUAD WEAPON AMMUNITION	76,794	41,284				-35,510
4	CTG. HANDGUN, ALL TYPES	7,812	7,812				
5	CTG. 50 CAL, ALL TYPES	29,716	26,909				-2,807
6	CTG. 20MM, ALL TYPES	4,371	4,371				
7	CTG. 25MM, ALL TYPES						
8	CTG. 30MM, ALL TYPES	34,511	45,450				+10,939
9	CTG. 40MM, ALL TYPES	35,231	38,344				+3,113
	MORTAR AMMUNITION						
10	60MM MORTAR, ALL TYPES	23,219	19,365				-3,854
11	81MM MORTAR, ALL TYPES	52,135	42,735				-9,400
12	120MM MORTAR, ALL TYPES	104,144	90,801				-13,343
	TANK AMMUNITION						
13	CTG. TANK 105MM AND 120MM: ALL TYPES	224,503	150,453				-74,050
	ARTILLERY AMMUNITION						
14	CTG. ARTY. 75MM AND 105MM: ALL TYPES	26,709	26,709				
15	ARTILLERY PROJECTILE, 155MM, ALL TYPES	174,015	137,582				-36,433
16	PROJ 155MM EXTENDED RANGE XM982	73,498	56,755	350			-16,743
17	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES	150,873	142,451				-8,422
	MINES						
18	MINES AND CLEARING CHARGES, ALL TYPES	25,980	25,980				
19	CLOSE TERRAIN SHAPING OBSTACLE	34,761	34,761				
	ROCKETS						
20	SHOULDER LAUNCHED MUNITIONS, ALL TYPES	24,408	17,384				-7,024
21	ROCKET, HYDRA 70, ALL TYPES	109,536	107,536				-2,000

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER AMMUNITION						
22	CAD/PAD ALL TYPES		6,549		4,597		- 1,952
23	DEMOLITION MUNITIONS, ALL TYPES		27,904		23,468		- 4,436
24	GRENADES, ALL TYPES		37,437		31,437		- 6,000
25	SIGNALS, ALL TYPES		7,530		7,530		
26	SIMULATORS, ALL TYPES		8,350		7,350		- 1,000
27	REACTIVE ARMOR TILES		17,755		17,755		
	MISCELLANEOUS						
28	AMMO COMPONENTS, ALL TYPES		2,784		1,500		- 1,284
29	ITEMS LESS THAN \$5 MILLION		17,797		16,297		- 1,500
30	AMMUNITION PECULIAR EQUIPMENT		12,290		9,790		- 2,500
31	FIRST DESTINATION TRANSPORTATION (AMMO)		4,331		4,331		
32	CLOSEOUT LIABILITIES		99		99		
	TOTAL, AMMUNITION		1,477,402		1,253,455		- 223,947
	AMMUNITION PRODUCTION BASE SUPPORT						
	PRODUCTION BASE SUPPORT						
34	INDUSTRIAL FACILITIES		538,120		688,120		+ 150,000
35	CONVENTIONAL MUNITIONS DEMILITARIZATION		139,410		129,410		- 10,000
36	ARMS INITIATIVE		3,178		3,178		
	TOTAL, AMMUNITION PRODUCTION BASE SUPPORT		680,708		820,708		+ 140,000
	TOTAL, PROCUREMENT OF AMMUNITION, ARMY		2,158,110		2,074,163		- 83,947

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	CTG, 5.56MM, All Types	47,490	44,626	- 2,864
	Excess to Need: 5.56mm Blank, M200 Linked f/SAW, E01101			- 864
	Excess to Need: 5.56mm Ball, M855A1 EPR, Clipped Mil Pack, E95400			- 2,000
2	CTG, 7.62MM, All Types	74,870	67,993	- 6,877
	Excess to Need: 7.62mm 4 Ball M80A1/1 Trcr M62A1 Lead Free, E02012			- 6,109
	Excess to Need: CTG, 7.62mm Special Ball, M118 Long Range, E89100			- 768
3	Next Generation Squad Weapon Ammunition	76,794	41,284	- 35,510
	Early to need: Next Generation Squad Weapon			- 29,950
	Reduce Carryover			- 5,560
5	CTG, .50 Cal, All Types	29,716	26,909	- 2,807
	Excess to Need: .50cal 4 Ball M33/1 Tracer M17 w/ M9 Link, E07200			- 2,807
8	CTG, 30mm, All Types	34,511	45,450	+ 10,939
	Excess to Need: CTG 30mm HEDP M789 Single Round, E09900			- 1,900
	Excess to Need: Complete Round M788 TP, E10100			- 161
	Program increase: Mk317 and Mk258			+ 13,000
9	CTG, 40mm, All Types	35,231	38,344	+ 3,113
	Excess to need: BA54, 40mm TP-Day/Nite/Ther Low Velocity			- 7,873
	Excess to need: BA55, 40mm TP-Day/Nite/Ther, Hi Velocity			- 3,014
	Program increase: 40mm Training Practice (TP) M918/M385A1 Mixed Belt rounds			+ 14,000
10	60MM Mortar, All Types	23,219	19,365	- 3,854
	Excess to Need: 60mm Mortar FRTR,M769 Series w/ Practice Fuze, E92900			- 743
	Unit Cost Growth: 60mm Mortar HE, M768 Series w/ PD Fuze, E92200			- 3,111
11	81MM Mortar, All Types	52,135	42,735	- 9,400
	Excess to Need: 81mm Mortar HE, M821 Series w/ MOFM, E18403			- 9,400
12	120MM Mortar, All Types	104,144	90,801	- 13,343
	Unjustified Growth: 120mm Mortar HE, M933 Series w/PD Fuze, E25502			- 10,490
	Unjustified growth: 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze, E25503			- 2,853
13	Cartridges, Tank, 105MM And 120MM, All Types	224,503	150,453	- 74,050
	Unjustified growth: 120mm, Target Practice Multi Purpose-Tracer (TPMP-T) M1002, E73201			- 8,000
	Unjustified growth: 120mm M865A1 (Longer Length) Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T), E73400			- 33,050
	Prior year carryover: 120mm M829A4 Armor Piercing Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T), E88106			- 33,000
15	Artillery Projectile, 155MM, All Types	174,015	137,582	- 36,433
	Excess to Need: 155mm Extended Range Spotting, M1121, E21618			- 1,478
	Excess to Need: 155mm HE, M795, E66800			- 30,890
	Excess to Need: 155mm WP Smoke M825, E67800			- 4,065
16	Proj 155mm Extended Range M982	73,498	56,755	- 16,743
	Restoring Acquisition Accountability: E80103			- 16,743
17	Artillery Propellants, Fuzes and Primers, All	150,873	142,451	- 8,422
	Early to Need: XM654, E99350 and XM659, E99360 ..			- 8,422

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
20	Shoulder Launched Munitions, All Types	24,408	17,384	-7,024
	Excess to Need: Munition 83mm Bunker Defeat (BDM) Rocket & Launcher M141, E88401			-7,024
21	Rocket, Hydra 70, All Types	109,536	107,536	-2,000
	Excess to Need: Government Management Expenses			-2,000
22	CAD/PAD, All Types	6,549	4,597	-1,952
	Reduce Carryover			-1,952
23	Demolition Munitions, All Types	27,904	23,468	-4,436
	Reduce Carryover: Charge, Demo Cratering 40 lb, E51300			-3,878
	Quantities Previously Funded: Charge, Demo, (50ft), Sheet Explosive, M186			-558
24	Grenades, All Types	37,437	31,437	-6,000
	Restoring Acquisition Accountability: Grenade 66MM Vehicle Launched White Smoked Screening Train- ing, E00500			-1,000
	Unjustified Growth: Grenade Hand Offensive M111, E33010			-5,000
26	Simulators, All Types	8,350	7,350	-1,000
	Reduce Carryover			-1,000
28	Ammo Components, All Types	2,784	1,500	-1,284
	Excess to Need			-1,284
29	Items Less Than \$5 Million (AMMO)	17,797	16,297	-1,500
	Unjustified Growth			-1,500
30	Ammunition Peculiar Equipment	12,290	9,790	-2,500
	Reduce Carryover			-2,500
34	Industrial Facilities	538,120	688,120	+150,000
	Program increase			+150,000
35	Conventional Munitions Demilitarization	139,410	129,410	-10,000
	Reduce Carryover			-10,000

Conventional Ammunition Demilitarization Mission Award Delays.—The Committee is concerned about the growing stockpile of munitions and the year-long contract award delay for the ongoing conventional ammunition demilitarization mission. The dangerous and challenging environment of munition demilitarization requires the combination of a proven workforce and highly specialized equipment to safely handle and dispose of explosives and hazardous munitions. Continued uncertainty and contract award delays have resulted in poor program execution of previously enacted funds. As a result, the Committee directs the Secretary of the Army to provide a report to the congressional defense committees, not later than 90 days after the enactment of this act, that will address the following areas: the Army's allocation of the conventional demilitarization budget across the industrial base; the strategy for government-owned, government-operated; government-owned, contractor-operated; and contractor-owned, contractor-operated allocations that focus on efficiency and environmental compliance; any recent cost-benefit analyses and cost trends; the percentage of open burn/open detonation across all industrial base locations and efforts to minimize the activity; and whether Environmental Protection Agency compliance for clean air standards is an allocation factor for demilitarization requirements.

Aligning the Munitions Requirements Process with Acquisition.—The Committee is aware of the Munitions Requirements Process, which is the annual process for updating the Army's total munitions requirement. The Committee is concerned that annual budget

requests and supporting documentation fail to sufficiently connect proposed acquisition activities with current requirements information. In past fiscal years, discontinuity between the budget request and the total munitions requirement has resulted in excess realignment of appropriated funds within the year of execution. Therefore, the Committee directs the Secretary of the Army to study the sequencing of the Munitions Requirement Process in relation to the development of its budget requests and identify opportunities for strengthening the fidelity of future year budget requests. The Secretary of the Army shall submit a report to the congressional defense committees on its findings and recommendations not later than 90 days after the enactment of this act.

OTHER PROCUREMENT, ARMY

Budget estimate, 2022	\$8,873,558,000
Committee recommendation	8,496,987,000

The Committee recommends an appropriation of \$8,496,987,000. This is \$376,571,000 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:

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER PROCUREMENT, ARMY						
	TACTICAL AND SUPPORT VEHICLES						
	TACTICAL VEHICLES						
2	SEMITRAILERS, FLATBED:		12,539		12,539		
3	SEMITRAILERS, TANKERS		17,985		17,985		
4	HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV)		60,706		120,706		+ 60,000
5	GROUND MOBILITY VEHICLES (GMV)		29,807		37,307		+ 7,500
8	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES		574,562		694,562		+ 120,000
9	TRUCK, DUMP, 20t (CCE)		9,882		9,882		
10	FAMILY OF MEDIUM TACTICAL VEH (FMTV)		36,885		61,885		+ 25,000
11	FAMILY OF COLD WEATHER ALL-TERRAIN VEHICLE (C)		16,450		16,450		
12	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMENT		26,256		26,256		
13	FAMILY OF HEAVY TACTICAL VEHICLES [HTV]		64,282		173,282		+ 109,000
14	PLS ESP		16,943		16,943		
17	TACTICAL WHEELED VEHICLE PROTECTION KITS		17,957		17,957		
18	MODIFICATION OF IN SVC EQUIP		29,349		29,349		
	NON-TACTICAL VEHICLES						
20	PASSENGER CARRYING VEHICLES		1,232		1,232		
21	NON-TACTICAL VEHICLES, OTHER		24,246		24,246		
	TOTAL, TACTICAL AND SUPPORT VEHICLES		939,081		1,260,581		+ 321,500
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
	COMM—JOINT COMMUNICATIONS						
22	SIGNAL MODERNIZATION PROGRAM		140,036		140,036		
23	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE		436,524		440,624		+ 4,100
25	DISASTER INCIDENT RESPONSE COMMS TERMINAL (DI		3,863		3,863		
26	JCSSE EQUIPMENT (USREDCOM)		4,845		4,845		
	COMM—SATELLITE COMMUNICATIONS						
29	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS		97,369		90,928		- 6,441
30	TRANS-PORTABLE TACTICAL COMMAND COMMUNICATIONS		120,550		120,550		
31	SHF TERM		38,129		38,129		

32	ASSURED POSITIONING, NAVIGATION AND TIMING	115,291	115,291	.....	.....
33	SMART-T (SPACE)	15,407	15,407	.....	.....
34	GLOBAL BRDCAST SVC—GBS	2,763	2,763	.....	.....
	COMM—COMBAT SUPPORT COMM				
37	COMM—C3 SYSTEM	99,858	99,858	.....	.....
	COE TACTICAL SERVER INFRASTRUCTURE (TSI)				
38	COMM—COMBAT COMMUNICATIONS	775,069	775,069	.....	.....
	HANDHELD MANPACK SMALL FORM FIT (HMS)	17,749	17,749	.....	.....
40	ARMY LINK 16 SYSTEMS	17,984	17,984	.....	.....
42	UNIFIED COMMAND SUITE	191,702	191,702	.....	.....
43	COTS COMMUNICATIONS EQUIPMENT	15,957	15,957	.....	.....
44	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE	89,441	89,441	.....	.....
45	ARMY COMMUNICATIONS & ELECTRONICS				
	COMM—INTELLIGENCE COMM				
47	CI AUTOMATION ARCHITECTURE (IMPI)	13,317	9,317	.....	-4,000
48	DEFENSE MILITARY DECEPTION INITIATIVE	5,207	5,207	.....	.....
49	MULTI-DOMAIN INTELLIGENCE	20,095	20,095	.....	.....
	INFORMATION SECURITY				
51	INFORMATION SYSTEM SECURITY PROGRAM-ISSP	987	987	.....	.....
52	COMMUNICATIONS SECURITY (COMSEC)	126,273	126,273	.....	.....
53	DEFENSIVE CYBER OPERATIONS	27,389	27,389	.....	.....
56	SIO CAPABILITY	21,303	21,303	.....	.....
57	BIOMETRIC ENABLING CAPABILITY (BEC)	914	914	.....	.....
	COMM—LONG HAUL COMMUNICATIONS				
59	BASE SUPPORT COMMUNICATIONS	9,209	9,209	.....	.....
	COMM—BASE COMMUNICATIONS				
60	INFORMATION SYSTEMS	219,026	219,026	.....	.....
61	EMERGENCY MANAGEMENT MODERNIZATION PROGRAM	4,875	4,875	.....	.....
64	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	223,001	223,001	.....	.....
67	JTT/CBS-M (MIP)	5,463	5,463	.....	.....
68	TERRESTRIAL LAYER SYSTEMS (TLS)	39,240	39,240	.....	.....
70	DCGS-A INTEL	92,613	92,613	.....	.....
71	JOINT TACTICAL GROUND STATION (JTAGS)-INTEL	8,088	8,088	.....	.....
72	TROJAN	30,828	30,828	.....	.....
73	MOD OF IN-SVC EQUIP (INTEL SPT)	39,039	51,039	.....	+12,000
74	BIOMETRIC TACTICAL COLLECTION DEVICES	11,097	11,097	.....	.....

109	AUTOMATED DATA PROCESSING EQUIPMENT	130,924	130,924	130,924	17,604	130,924	.....	.....	.....
110	ACCESSIONS INFORMATION ENVIRONMENT (AIE)	44,635	44,635	44,635	.....	44,635	.....	.....	.....
111	GENERAL FUND ENTERPRISE BUSINESS SYSTEM	1,452	1,452	1,452	.....	1,452	.....	.....	.....
112	HIGH PERF COMPUTING MOD PROGRAM	69,943	69,943	69,943	.....	69,943	.....	.....	.....
113	CONTRACT WRITING SYSTEM	16,957	16,957	16,957	.....	16,957	.....	.....	-2,000
114	CSS COMMUNICATIONS	73,110	73,110	73,110	.....	73,110	.....	.....	.....
115	RESERVE COMPONENT AUTOMATION SYS [RCAS]	12,905	12,905	12,905	.....	12,905	.....	.....	.....
	ELECT EQUIP—AUDIO VISUAL SYS (AV) .....	.....	.....	.....	.....	.....	.....	.....	.....
	CLASSIFIED PROGRAMS	18,304	18,304	18,304	.....	18,304	.....	.....	-700
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT	5,822,037	5,822,037	4,996,132	.....	4,996,132	.....	.....	-825,905
119	BASE DEFENSE SYSTEMS [BDS]	62,295	62,295	62,295	.....	62,295	.....	.....	.....
120	CBRN DEFENSE	55,632	55,632	55,632	.....	55,632	.....	.....	.....
122	TACTICAL BRIDGING	9,625	9,625	9,625	.....	9,625	.....	.....	.....
123	TACTICAL BRIDGE, FLOAT-RIBBON	76,082	76,082	76,082	.....	76,082	.....	.....	.....
124	BRIDGE SUPPLEMENTAL SET	19,867	19,867	19,867	.....	19,867	.....	.....	.....
125	COMMON BRIDGE TRANSPORTER RECAP	109,796	109,796	109,796	.....	109,796	.....	.....	.....
126	HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST	5,628	5,628	5,628	.....	5,628	.....	.....	.....
128	HUSKY MOUNTED DETECTION SYSTEM (HMDS)	26,823	26,823	26,823	.....	26,823	.....	.....	+48,300
131	ROBOTICS AND APPLIQUE SYSTEMS	124,233	124,233	104,233	.....	104,233	.....	.....	-20,000
132	RENDER SAFE SETS KITS OUTFITS	84,000	84,000	84,000	.....	84,000	.....	.....	.....
134	HEATERS AND ECUs	7,116	7,116	7,116	.....	7,116	.....	.....	.....
135	SOLDIER ENHANCEMENT	1,286	1,286	1,286	.....	1,286	.....	.....	.....
136	PERSONNEL RECOVERY SUPPORT SYSTEM [PRSS]	9,741	9,741	9,741	.....	9,741	.....	.....	.....
137	GROUND SOLDIER SYSTEM	150,244	150,244	150,244	.....	150,244	.....	.....	.....
138	MOBILE SOLDIER POWER	17,815	17,815	17,815	.....	17,815	.....	.....	+10,000
139	FORCE PROVIDER	28,860	28,860	38,860	.....	38,860	.....	.....	.....
140	FIELD FEEDING EQUIPMENT	2,321	2,321	2,321	.....	2,321	.....	.....	-3,200
141	CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM	40,240	40,240	37,040	.....	37,040	.....	.....	.....
142	FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS	36,163	36,163	36,163	.....	36,163	.....	.....	.....
144	QUALITY SURVEILLANCE EQUIPMENT18355	744	744	744	.....	744	.....	.....	.....
145	DISTRIBUTION SYSTEMS, PETROLEUM & WATER	72,296	72,296	72,296	.....	72,296	.....	.....	.....
146	COMBAT SUPPORT MEDICAL	122,145	122,145	122,145	.....	122,145	.....	.....	.....
147	MOBILE MAINTENANCE EQUIPMENT SYSTEMS	14,756	14,756	134,756	.....	134,756	.....	.....	+120,000
154	ALL TERRAIN CRANES	112,784	112,784	112,784	.....	112,784	.....	.....	.....
156	CONST EQUIP ESP	8,694	8,694	21,694	.....	21,694	.....	.....	+13,000
158	ARMY WATERCRAFT ESP	44,409	44,409	58,009	.....	58,009	.....	.....	+13,600
159	MANEUVER SUPPORT VESSEL (MSV)	76,660	76,660	76,660	.....	76,660	.....	.....	.....
161	GENERATORS AND ASSOCIATED EQUIPMENT	47,606	47,606	47,606	.....	47,606	.....	.....	.....

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
162	TACTICAL ELECTRIC POWER RECAPITALIZATION		10,500		10,500		
163	FAMILY OF FORKLIFTS		13,325		13,325		
164	COMBAT TRAINING CENTERS SUPPORT		79,565		94,965		+ 15,400
165	TRAINING DEVICES, NONSYSTEM		174,644		174,644		
166	SYNTHETIC TRAINING ENVIRONMENT (STE)		122,104		52,838		- 69,266
168	GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING		11,642		11,642		
	TEST MEASURE AND DIG EQUIPMENT (TMD)						
170	INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE)		42,934		42,934		
172	TEST EQUIPMENT MODERNIZATION (TEMOD)	399	24,304		24,304		- 399
174	PHYSICAL SECURITY SYSTEMS (OPAS)		86,930		86,930		
175	BASE LEVEL COM'L EQUIPMENT		27,823		27,823		
176	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)		32,392		32,392		
177	BUILDING, PRE-FAB, RELOCATABLE		32,227		32,227		
179	SPECIAL EQUIPMENT FOR TEST AND EVALUATION		76,917		76,917		
	TOTAL, OTHER SUPPORT EQUIPMENT		2,103,168		2,231,002		+ 127,834
180	INITIAL SPARES—C&E		9,272		9,272		
	TOTAL, SPARE AND REPAIR PARTS		9,272		9,272		
	TOTAL, OTHER PROCUREMENT, ARMY		8,873,558		8,496,987		- 376,571

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
4	HI MOB MULTI-PURP WHLD VEH (HMMWV)	60,706	120,706	+ 60,000
	Program increase			+ 60,000
5	Ground Mobility Vehicles (GMV)	29,807	37,307	+ 7,500
	Program increase: Infantry squad vehicle			+ 7,500
8	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICL	574,562	694,562	+ 120,000
	Program increase			+ 120,000
10	Family Of Medium Tactical Veh [FMTV]	36,885	61,885	+ 25,000
	Program increase			+ 25,000
13	Family Of Heavy Tactical Vehicles [FHTV]	64,282	173,282	+ 109,000
	Program increase			+ 109,000
23	Tactical Network Technology Mod In Svc	436,524	440,624	+ 4,100
	Program increase: Joint CONUS Communications Support Environment Satellite Communications Upgrade			+ 4,100
29	Defense Enterprise Wideband Satcom Systems	97,369	90,928	- 6,441
	Justification discrepancies for EWS Terminal Mod			- 6,441
47	CI AUTOMATION ARCHITECTURE-INTEL	13,317	9,317	- 4,000
	Prior year execution			- 4,000
73	MOD OF IN-SVC EQUIP (INTEL SPT)	39,039	51,039	+ 12,000
	Program increase: Prophet Enhanced ESP			+ 12,000
82	Sentinel Mods	47,642	44,242	- 3,400
	Prior year carryover			- 3,400
83	Night Vision Devices	1,092,341	264,377	- 827,964
	Transfer to RDTE,A line 57 for IVAS development			- 75,000
	IVAS ahead of need			- 778,864
	Program increase: ENVG-B			+ 17,000
	Program increase: Laser target locator			+ 8,900
108	Army Training Modernization	9,833	12,333	+ 2,500
	Program increase: CUAS Training Facility			+ 2,500
113	Contract Writing System	16,957	14,957	- 2,000
	Program growth			- 2,000
999	Classified Programs	18,304	17,604	- 700
	Classified program adjustment			- 700
128	HUSKY MOUNTED DETECTION SYSTEM (HMDS)	26,823	75,123	+ 48,300
	Program increase			+ 48,300
131	Robotics and Applique Systems	124,233	104,233	- 20,000
	Prior year execution delays			- 20,000
139	Force Provider	28,860	38,860	+ 10,000
	Program increase: Expeditionary Shelter Protection Systems			+ 10,000
141	Cargo Aerial Del & Personnel Parachute System	40,240	37,040	- 3,200
	ATPS cost growth			- 3,200
147	Mobile Maintenance Equipment Systems	14,756	134,756	+ 120,000
	Program increase: Next Generation HMMWV Shop Equipment Contact Maintenance Vehicle			+ 120,000
156	Const Equip ESP	8,694	21,694	+ 13,000
	Program increase: High mobility engineer excavator [SLEP]			+ 13,000
158	Army Watercraft Esp	44,409	58,009	+ 13,600
	Program increase: Watercraft modernization service life extension program			+ 13,600
164	Combat Training Centers Support	79,565	94,965	+ 15,400
	Program increase: INDOPACOM Pacific Multi-Domain Training and Experimentation Capability			+ 15,400
166	Synthetic Training Environment (STE)	122,104	52,838	- 69,266
	SiVT ahead of need			- 69,266

Vehicle Rollover Mitigation.—The Committee continues to be concerned with recurring rollovers of High Mobility Multipurpose Wheeled Vehicle [HMMWVs] leading to service member and civilian casualties. The Committee is encouraged by the deployment and installation of rollover mitigation systems on all new HMMWVs and Joint Light Tactical Vehicles. The Committee is aware that work has begun to retrofit rollover mitigation in the enduring fleet of legacy vehicles and vehicles that are new or have been modernized without the safety critical technology. The Program Executive Office for Combat Support and Combat Service Support is encouraged to continue the retrofit of these vehicles.

Multi-Domain Task Force All Domain Operation Concept Pilot/Cloud.—The Committee recognizes that advances in digital warfare, autonomous robotics, and artificial intelligence will comprise the future of combat. It is imperative that the United States maintains digital overmatch against near-peer adversaries and non-state actors, by shortening kill chains, providing a persistent capability, and enabling freedom of maneuver that does not compromise national security. Therefore, the Committee encourages the Secretary of the Army to develop a plan for a Multi-Domain Task Force All Domain Operation Concept Pilot/Cloud to securely deploy computing resources on-demand to networked users around the globe.

Land Mobile Radios.—The Committee is concerned about the delayed pace at which the Army is moving to secure upgraded communications infrastructure, specifically land mobile radios, under its current roadmap. With the force protection condition at high readiness states and with an increased requirement for military installations to interoperate with their local civilian communities in times of emergency, the Committee is concerned that the current timeline leaves many installations facing undue risks to force protection, public safety, and interoperable communications. Therefore, the Committee encourages the Secretary of the Army to accelerate plans for continued modernization and sustainment of the communications infrastructure, including the land mobile radio network.

Public Safety Concerns.—The Committee believes that the Army's response to public safety failures at Fort Hood and elsewhere must not be subject to piece-meal investment efforts. The Fort Hood Independent Review Committee has identified specific public safety technology upgrades that are available off-the-shelf. The Army currently lacks a dedicated program of record to support the investment in and oversight of a comprehensive upgrade of public safety systems. Therefore, the Committee encourages the Secretary of the Army to establish a program to invest in public safety systems such as surveillance cameras, security systems, license plate readers, and analytic tools which were called out in the Report of the Fort Hood Independent Review Committee.

Personnel Recovery Devices.—The Committee recognizes that the Army may no longer have access to its secure-mode personnel recovery device [PRD]. The Committee notes that personnel recovery support systems that ensure soldier safety, recovery, and survivability are of paramount importance and should remain a priority. The Committee encourages the Secretary of the Army to continue

to develop, invest in, and field a secure-mode PRD capable of operating in increasingly contested environments utilizing secure signals of opportunity that meet Army qualifications.

Mobile X-ray Technology.—The Committee recognizes the need of forward deployed military facilities to have equipment that can provide essential lifesaving and timely diagnostics in adverse conditions. The Committee is aware that certain recent developments in mobile x-ray technology may surpass existing equipment in the Department of Army inventory and may provide more accurate and efficient medical care on the battlefield. The Committee encourages the Secretary of the Army to examine acquisition of rugged, lightweight, and high-fidelity digital mobile x-ray units for use at forward deployed field hospitals on the battlefield.

Tactical Electrical Power.—The Committee commends the work of the Department of the Army to incorporate fuel and energy efficiencies into the latest generator sets and innovative power solutions. As the military services continue to enhance and modernize the tactical electric power solutions such as large tactical power, the Committee encourages the Secretary of the Army to consider systems that would be compatible with existing and proven solutions in the field.

AIRCRAFT PROCUREMENT, NAVY

Budget estimate, 2022	\$16,477,178,000
Committee recommendation	17,710,805,000

The Committee recommends an appropriation of \$17,710,805,000. This is \$1,233,627,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
AIRCRAFT PROCUREMENT, NAVY							
1	COMBAT AIRCRAFT						
	F/A-18E/F (FIGHTER) HORNET [MYP]	20	87,832		87,832		
3	JOINT STRIKE FIGHTER CV		2,108,645	20	2,058,393		-50,252
4	JOINT STRIKE FIGHTER CV [AP-CY]		249,145		249,145		
5	JSF STOVL	17	2,256,735		2,216,735		-40,000
6	JSF STOVL [AP-CY]		216,814		216,814		
7	CH-53K (HEAVY LIFT)	9	1,286,264	9	1,279,264		-7,000
8	CH-53K (HEAVY LIFT) [AP-CY]		182,903		182,903		
9	V-22 (MEDIUM LIFT)	17	751,716	17	1,504,116		+752,400
11	UH-1Y/AH-1Z		939		939		
13	P-8A POSEIDON		44,595		44,595		
14	E-2D ADV HAWKEYE	5	765,945	5	765,945		
15	E-2D ADV HAWKEYE [AP-CY]		118,938		118,938		
	TOTAL, COMBAT AIRCRAFT		8,070,471		8,725,619		+655,148
16	TRAINER AIRCRAFT	36	163,490	36	163,490		
	ADVANCED HELICOPTER TRAINING SYSTEM						
	TOTAL, TRAINER AIRCRAFT		163,490		163,490		
OTHER AIRCRAFT							
17	KC-130J	6	520,787		742,809		+222,022
18	KC-130J [AP-CY]		68,088	8	68,088		
21	MQ-4 TRITON		160,151	3	591,651		+431,500
23	MQ-8 UAV		49,249		49,249		
24	STUASLO UAV		13,151		13,151		
25	MQ-25 [AP-CY]		47,468		47,468		
27	MARINE GROUP 5 UAS	6	233,686	6	233,686		
	TOTAL, OTHER AIRCRAFT		1,092,580		1,746,102		+653,522
30	MODIFICATION OF AIRCRAFT		163,095		162,095		-1,000
	F-18 A-D UNIQUE						

31	F-18E/F AND EA-18G MODERNIZATION AND SUSTAIN	482,899	482,899			
32	MARINE GROUP 5 UAS SERIES	1,982	1,982			
33	AEA SYSTEMS	23,296	23,296			
34	AV-8 SERIES	17,882	17,882			
35	INFRARED SEARCH AND TRACK (IRST)	138,827	138,827			-18,450
36	ADVERSARY	143,571	143,571			
37	F-18 SERIES	327,571	327,571			
38	H-53 SERIES	112,436	112,436			
39	MH-60 SERIES	94,794	94,794			
40	H-1 SERIES	124,194	124,194			
41	EP-3 SERIES	28,848	28,848			
42	E-2 SERIES	204,826	204,826			-10,000
43	TRAINER A/C SERIES	7,849	7,849			
44	C-2A	2,843	2,843			
45	C-130 SERIES	145,610	142,610			-3,000
46	FEWSG	734	734			
47	CARGO/TRANSPORT A/C SERIES	10,682	10,682			
48	E-6 SERIES	128,029	128,029			
49	EXECUTIVE HELICOPTERS SERIES	45,326	45,326			
51	T-45 SERIES	158,772	158,772			
52	POWER PLANT CHANGES	24,915	24,915			
53	JPATS SERIES	22,955	22,955			
54	AVIATION LIFE SUPPORT MODS	2,477	2,477			
55	COMMON ECM EQUIPMENT	119,574	119,574			
56	COMMON AVONICS CHANGES	118,839	118,839			
57	COMMON DEFENSIVE WEAPON SYSTEM	5,476	5,476			
58	ID SYSTEMS	13,154	13,154			
59	P-8 SERIES	131,298	115,998			-15,300
60	MAGTF EW FOR AVIATION	29,151	29,151			
61	MQ-8 SERIES	31,624	31,624			
62	V-22 (TILT/ROTOR AGFT) OSPREY	312,835	312,835			
63	NEXT GENERATION JAMMER (NGJ)	266,676	266,676			
64	F-35 STOVL SERIES	177,054	166,850			-10,204
65	F-35 CV SERIES	138,269	111,069			-27,200
66	QUICK REACTION CAPABILITY (QRC)	98,563	98,563			
67	MQ-4 SERIES	7,100	7,100			
68	RQ-21 SERIES	14,123	14,123			
	TOTAL, MODIFICATION OF AIRCRAFT	3,878,149	3,792,995			-85,154

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
72	AIRCRAFT SPARES AND REPAIR PARTS SPARES AND REPAIR PARTS		2,339,077		2,349,188		+ 10,111
73	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES COMMON GROUND EQUIPMENT		517,267		517,267		
74	AIRCRAFT INDUSTRIAL FACILITIES		80,500		80,500		
75	WAR CONSUMABLES		42,496		42,496		
76	OTHER PRODUCTION CHARGES		21,374		21,374		
77	SPECIAL SUPPORT EQUIPMENT		271,774		271,774		
	TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES		933,411		933,411		
	TOTAL, AIRCRAFT PROCUREMENT, NAVY		16,477,178		17,710,805		+ 1,233,627

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
3	Joint Strike Fighter CV	2,108,645	2,058,393	-50,252
	Unit cost savings			-50,252
5	JSF STOVL	2,256,735	2,216,735	-40,000
	Non-recurring cost growth			-40,000
7	CH-53K (Heavy Lift)	1,286,264	1,279,264	-7,000
	GFE electronics excess growth			-4,600
	Other GFE growth			-2,400
9	V-22 (Medium Lift)	751,716	1,504,116	+752,400
	Program increase: Four additional CMV-22			+334,400
	Program increase: Five additional MV-22			+418,000
17	KC-130J	520,787	742,809	+222,022
	Unit cost growth			-7,378
	Program increase: Two additional aircraft			+197,900
	Program increase: KC-130J weapons system trainer			+31,500
21	MQ-4 Triton	160,151	591,651	+431,500
	Program increase: Three additional aircraft			+431,500
30	F/A-18 A-D Unique	163,095	162,095	-1,000
	F/A-18 aircraft structural life management (OSIP 11-99) inner wing installation excess cost growth			-1,000
35	Infrared Search and Track (IRST)	138,827	120,377	-18,450
	Limit production growth			-18,450
42	E-2 Series	204,826	194,826	-10,000
	Program growth			-10,000
45	C-130 Series	145,610	142,610	-3,000
	Cost growth on installs			-3,000
59	P-8 Series	131,298	115,998	-15,300
	Program delays			-15,300
64	F-35 STOVL Series	177,054	166,850	-10,204
	Block 4 B kits early to need			-10,204
65	F-35 CV Series	138,269	111,069	-27,200
	Block 4 B kits early to need			-27,200
72	Spares and Repair Parts	2,339,077	2,349,188	+10,111
	Program increase: KC-130J weapon system trainer initial spares			+3,111
	Program increase: KC-130J initial spares			+7,000

Navy Reserve Aviation Modernization.—The Committee is aware that certain Navy Reserve aviation squadrons are equipped with old F/A-18C Hornet aircraft, which limits their ability to deploy and fully integrate with other operational units that are flying more advanced F/A-18E/F Super Hornets. Because of the limitations of the older aircraft capabilities, Navy Reserve units equipped with these aircraft have been in jeopardy of personnel reductions. The Committee supports a well-equipped, fully manned, and modern Reserve force. The Committee is aware that previous Navy plans to modernize Reserve aviation squadrons with Super Hornets has not been executed. Therefore, the Committee directs the Secretary of the Navy to provide a plan to modernize Navy Reserve aviation squadrons with F/A-18E/F or other modern aircraft, such as F-35Cs, and to brief the plan, to include the anticipated costs to implement the plan, along with impacts on personnel and manning levels at each squadron, to the congressional defense committees not later than 90 after the enactment of this act.

RQ-21A Blackjack.—The Marine Corps has indicated its plan to invest in a new medium altitude unmanned aerial system [UAS] thereby divesting its current fleet of RQ-21A. The Committee directs the Secretary of the Navy to provide a report to the congressional defense committees, not later than 180 days after enactment of this act that fully outlines the operational need to invest in a new UAS platform. The report shall include: an analysis of intelligence, surveillance, and reconnaissance requirements within the new roles, missions, and concepts of operations for the Marine Corps described in the Commandant’s Planning Guidance and Force Design 2030; a corresponding description of how current and future platforms meet or fail to meet such requirements; any upgrades which include existing available upgrades and integration of armaments that would materially improve performance of existing platforms; and cost estimates to upgrade the RQ-21A in comparison to fielding a new UAS system.

WEAPONS PROCUREMENT, NAVY

Budget estimate, 2022	\$4,220,705,000
Committee recommendation	4,134,152,000

The Committee recommends an appropriation of \$4,134,152,000. This is \$86,553,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	WEAPONS PROCUREMENT, NAVY						
	BALLISTIC MISSILES						
	MODIFICATION OF MISSILES						
1	TRIDENT II MODS		1,144,446		1,144,446		
2	SUPPORT EQUIPMENT AND FACILITIES						
	MISSILE INDUSTRIAL FACILITIES		7,319		7,319		
	TOTAL, BALLISTIC MISSILES		1,151,765		1,151,765		
	OTHER MISSILES						
	STRATEGIC MISSILES						
3	TOMAHAWK	60	124,513	60	124,513		
	TACTICAL MISSILES						
5	SIDEWINDER	178	86,366	178	82,788		-3,578
6	STANDARD MISSILE	125	521,814	125	521,814		
7	STANDARD MISSILE (AP-CY)		45,357		45,357		
8	JASSM	25	37,039	25	37,039		
9	SMALL DIAMETER BOMB II	180	40,877	180	40,877		
10	RAM	100	92,981	100	92,981		
11	JOINT AIR GROUND MISSILE (JAGM)	164	49,702	164	49,702		
12	HELLFIRE	120	7,557	120	7,557		
13	AERIAL TARGETS		150,339		150,339		
14	DRONES AND DECOYS	18	30,321	18	30,321		
15	OTHER MISSILE SUPPORT		3,474		3,474		
16	LRASM	48	161,212	48	161,212		
17	NAVAL STRIKE MISSILE (NSM)	34	59,331	34	59,331		
	MODIFICATION OF MISSILES						
18	TOMAHAWK MODS		206,233		162,074		-44,159
19	ESSM	108	248,619	108	248,619		
21	AARGM	54	116,345	54	116,345		
22	STANDARD MISSILES MODS		148,834		148,834		

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
23	SUPPORT EQUIPMENT AND FACILITIES						
	WEAPONS INDUSTRIAL FACILITIES		1,819		11,819		+ 10,000
26	ORDNANCE SUPPORT EQUIPMENT		191,905		143,089		- 48,816
	ORDNANCE SUPPORT EQUIPMENT						
	TOTAL, OTHER MISSILES		2,324,638		2,238,085		- 86,553
	TORPEDOS AND RELATED EQUIPMENT						
	TORPEDOS AND RELATED EQUIP						
27	SSTD	58	4,545		4,545		
28	MK-48 TORPEDO		159,107	58	159,107		
29	ASW TARGETS		13,630		13,630		
	MOD OF TORPEDOS AND RELATED EQUIP						
30	MK-54 TORPEDO MODS		106,112		106,112		
31	MK-48 TORPEDO ADCAP MODS		35,680		35,680		
32	MARITIME MINES		8,567		8,567		
	SUPPORT EQUIPMENT						
33	TORPEDO SUPPORT EQUIPMENT		93,400		93,400		
34	ASW RANGE SUPPORT		3,997		3,997		
	DESTINATION TRANSPORTATION						
35	FIRST DESTINATION TRANSPORTATION		4,023		4,023		
	TOTAL, TORPEDOS AND RELATED EQUIPMENT		429,061		429,061		
	OTHER WEAPONS						
	GUNS AND GUN MOUNTS						
36	SMALL ARMS AND WEAPONS		14,909		14,909		
	MODIFICATION OF GUNS AND GUN MOUNTS						
37	CWS MODS		6,274		6,274		
38	COAST GUARD WEAPONS		45,958		45,958		
39	GUN MOUNT MODS		68,775		68,775		
40	LCS MODULE WEAPONS	14	2,121	14	2,121		

41	AIRBORNE MINE NEUTRALIZATION SYSTEMS .....	.....	14,822	.....	14,822	.....
	TOTAL, OTHER WEAPONS .....	.....	152,859	.....	152,859	.....
43	SPARES AND REPAIR PARTS .....	.....	162,382	.....	162,382	.....
	TOTAL, WEAPONS PROCUREMENT, NAVY .....	.....	4,220,705	.....	4,134,152	- 86,553

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
5	Sidewinder	86,366	82,788	- 3,578
	Unit cost adjustment: AUR Block II .....	.....	.....	- 2,624
	Unit cost adjustment: CATM Block II .....	.....	.....	- 954
18	Tomahawk Mods	206,233	162,074	- 44,159
	Classified adjustment .....	.....	.....	- 44,159
23	Weapons Industrial Facilities	1,819	11,819	+ 10,000
	Program increase .....	.....	.....	+ 10,000
26	Ordnance Support Equipment	191,905	143,089	- 48,816
	Classified adjustment .....	.....	.....	- 48,816

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

Budget estimate, 2022	\$988,018,000
Committee recommendation	853,620,000

The Committee recommends an appropriation of \$853,620,000. This is \$134,398,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROCUREMENT OF AMMO, NAVY & MARINE CORPS						
	PROC AMMO, NAVY						
	NAVY AMMUNITION						
1	GENERAL PURPOSE BOMBS	2971	48,635		43,424		-5,211
2	JDAM		74,140	890	25,000		-49,140
3	AIRBORNE ROCKETS, ALL TYPES		75,383		70,383		-5,000
4	MACHINE GUN AMMUNITION		11,215		11,215		
5	PRACTICE BOMBS		52,225		52,225		
6	CARTRIDGES & CART ACTUATED DEVICES		70,876		68,901		-1,975
7	AIR EXPENDABLE COUNTERMEASURES		61,600		56,249		-5,351
8	JATOS		6,620		6,620		
9	5 INCH/54 GUN AMMUNITION		28,922		27,923		-999
10	INTERMEDIATE CALIBER GUN AMMUNITION		36,038		28,610		-7,428
11	OTHER SHIP GUN AMMUNITION		39,070		39,070		
12	SMALL ARMS & LANDING PARTY AMMO		45,493		39,293		-6,200
13	PYROTECHNIC AND DEMOLITION		9,163		9,163		
15	AMMUNITION LESS THAN \$5 MILLION		1,575		1,575		
	TOTAL, PROC AMMO, NAVY		560,955		479,651		-81,304
	PROC AMMO, MARINE CORPS						
	MARINE CORPS AMMUNITION						
16	MORTARS		50,707		41,228		-9,479
17	DIRECT SUPPORT MUNITIONS		120,037		118,157		-1,880
18	INFANTRY WEAPONS AMMUNITION		94,001		68,428		-25,573
19	COMBAT SUPPORT MUNITIONS		35,247		26,386		-8,861
20	AMMO MODERNIZATION		16,267		16,267		
21	ARTILLERY MUNITIONS		105,669		98,368		-7,301
22	ITEMS LESS THAN \$5 MILLION		5,135		5,135		
	TOTAL, PROC AMMO, MARINE CORPS		427,063		373,969		-53,094
	TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS		988,018		853,620		-134,398

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	General Purpose Bombs	48,635	43,424	- 5,211
	Excess to Need: BLU-137			- 5,211
2	JDAM	74,140	25,000	- 49,140
	Early to Need: JDAM Contract Delay			- 49,140
3	Airborne Rockets, All Types	75,383	70,383	- 5,000
	Unjustified Growth: Q5040			- 5,000
6	Cartridges & Cart Actuated Devices	70,876	68,901	- 1,975
	Quantities Previously Funded: MK122 Parachute Deploy RCKT MT29			- 1,975
7	Air Expendable Countermeasures	61,600	56,249	- 5,351
	Award Delay: RR-198AL, RR-199AL			- 500
	Quantities Previously Funded: IR Decoys			- 4,351
	Excess Growth: Acceptance Test & Evaluation IR Decoys ..			- 500
9	5 Inch/54 Gun Ammunition	28,922	27,923	- 999
	Unit Cost Growth: 5"/54 Prop Charge, Full DA65			- 999
10	Intermediate Caliber Gun Ammunition	36,038	28,610	- 7,428
	Quantities Previously Funded: CART, .57MM HE-PD.			- 7,428
12	Small Arms & Landing Party Ammo	45,493	39,293	- 6,200
	Unit Cost Growth: Integrated Warfare Systems .50 Cal Cartridges			- 1,000
	Unit Cost Growth: Integrated Warfare Systems 7.62MM Cartridges			- 639
	Excess to Need: G881 Grenade, Hand Frag, NSW			- 916
	Excess to Need: 9MM MMR Green Primer (Red)			- 405
	Quantities Previously Funded: NSW .50 Cal Linked Ball MK322 Mod 1/TRAC			- 3,240
16	Mortars	50,707	41,228	- 9,479
	Unjustified Growth: Mortar 81MM HE Frag			- 9,479
17	Direct Support Munitions	120,037	118,157	- 1,880
	Excess to Need: 20MM Carl Gustaf Trainer System			- 1,880
18	Infantry Weapons Ammunition	94,001	68,428	- 25,573
	Excess to Need: BA54 & BA55 Termination			- 30,742
	Unit Cost Growth: 25MM TPDS-T Linked M910			- 1,031
	Program increase: Mk281 Mod 3			+ 6,200
19	Combat Support Munitions	35,247	26,386	- 8,861
	Excess to Need: ML25 M59A1 Linear Demolition Charge			- 7,880
	Excess to Need: DWHH MK18 Electric Blasting Cap			- 981
21	Artillery Munitions	105,669	98,368	- 7,301
	Excess to Need: 155mm [MACS] M32A2			- 7,301

Aligning the Naval Munitions Requirements Process with Acquisition.—The Committee is aware of the Naval Munitions Requirements Process, which is the annual process for updating the Navy total munitions requirement. The Committee is concerned that annual budget requests and supporting documentation fail to sufficiently connect proposed acquisition activities with current requirements information. In past fiscal years, discontinuity between the budget request and current Naval Munitions Requirement has resulted in excess realignment of appropriated funds within the year of execution. Therefore, the Committee directs the Secretary of the Navy to study the sequencing of the Naval Munitions Requirements Process in relation to the development of its budget requests and identify opportunities for strengthening the fidelity of future year budget requests. The Secretary of the Navy shall submit a report to the congressional defense committees on its findings and

recommendations not later than 90 days after the enactment of this act.

SHIPBUILDING AND CONVERSION, NAVY

Budget estimate, 2022	\$22,571,059,000
Committee recommendation	25,559,000,000

The Committee recommends an appropriation of \$25,559,000,000. This is \$2,987,941,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
SHIPBUILDING & CONVERSION, NAVY							
FLEET BALLISTIC MISSILE SHIPS							
1	COLUMBIA CLASS SUBMARINE		3,003,000		3,003,000		
2	COLUMBIA CLASS SUBMARINE [AP-CY]		1,643,980		1,773,980		+ 130,000
OTHER WARSHIPS							
3	CARRIER REPLACEMENT PROGRAM (CVN 80)		1,068,705		1,068,705		
4	CARRIER REPLACEMENT PROGRAM (CVN 81)		1,299,764		1,299,764		
5	VIRGINIA CLASS SUBMARINE	2	4,249,240	2	4,199,240		- 50,000
6	VIRGINIA CLASS SUBMARINE [AP-CY]		2,120,407		2,105,407		- 15,000
7	CVN REFUELING OVERHAUL		2,456,018		2,444,218		- 11,800
8	CVN REFUELING OVERHAULS [AP-CY]		66,262		66,262		
9	DDG 1000		56,597		56,597		
10	DDG-51	1	2,016,787	2	3,675,987		+ 1,659,200
11	DDG-51 [AP-CY]				120,000		+ 120,000
13	FFG-FRIGATE	1	1,087,900	1	1,090,900		+ 3,000
14	FFG-FRIGATE [AP-CY]		69,100				- 69,100
	TOTAL, OTHER WARSHIPS		14,490,780		16,127,080		+ 1,636,300
AMPHIBIOUS SHIPS							
15	LPD FLIGHT II		60,636		60,636		
16	LPD 32 (AP)				250,000		+ 250,000
17	EXPEDITIONARY SEA BASE (ESB)	1		1	577,000		+ 577,000
19	LHA REPLACEMENT		68,637		68,637		
20	EXPEDITIONARY FAST TRANSPORT	2		2	590,000		+ 590,000
	TOTAL, AMPHIBIOUS SHIPS		129,273		1,546,273		+ 1,417,000
AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS							
21	TAO FLEET OILER	1	668,184	1	668,184		
22	TAO FLEET OILER [AP-CY]		76,012				- 76,012
23	TAGOS SURTASS SHIPS	1	434,384	1	434,384		
24	TOWING, SALVAGE, AND RESCUE SHIP (ATS)	2	183,800	2	183,800		
25	LCU 1700	4	67,928	4	67,928		

26	OUTFITTING		655,707		641,260		-14,447
27	SHIP TO SHORE CONNECTOR	2	156,738	5	351,738	+3	+195,000
28	SERVICE CRAFT		67,866		67,866		
29	LCAC SLEP	2	32,712	2	32,712		
30	AUXILIARY VESSELS	5	299,900			-5	-299,900
31	COMPLETION OF PY SHIPBUILDING PROGRAMS		660,795		660,795		
	TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM		3,304,026		3,108,667		-195,359
	TOTAL, SHIPBUILDING & CONVERSION, NAVY		22,571,059		25,559,000		+2,987,941

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
2	Columbia Class Submarine [AP-CY]	1,643,980	1,773,980	+ 130,000
	SSBN 827 AP (FF FY24-25)	[1,251,428]	[1,251,428]	.....
	SSBN 828 AP (FF FY26)	[149,899]	[149,899]	.....
	SSBN 829 AP (FF FY27)	[77,973]	[77,973]	.....
	SSBN 830 AP (FF FY28)	[10,667]	[10,667]	.....
	SSBN 831 AP (FF FY29)	[2,241]	[2,241]	.....
	SSBN 832 AP (FF FY30)	[892]	[892]	.....
	SSBN 833 AP (FF FY31)	[893]	[893]	.....
	SSBN 834 AP (FF FY32)	[892]	[892]	.....
	SSBN 835 AP (FF FY33)	[892]	[892]	.....
	SSBN 836 AP (FF FY34)	[892]	[892]	.....
	SSBN 837 AP (FF FY35)	[147,311]	[147,311]	.....
	Program increase: Submarine supplier development ..	.....	.....	+ 130,000
5	Virginia Class Submarine FF	4,249,240	4,199,240	- 50,000
	Unjustified request .....	.....	.....	- 50,000
6	Virginia Class Submarine [AP-CY]	2,120,407	2,105,407	- 15,000
	SSN 810 AP (FF FY23)	[305,960]	[305,960]	.....
	SSN 811 AP (FF FY23)	[305,960]	[305,960]	.....
	SSN 812 AP (FF FY24)	[754,244]	[754,244]	.....
	SSN 813 AP (FF FY24)	[754,244]	[754,244]	.....
	Program adjustment .....	.....	.....	- 15,000
7	CVN Refueling Overhauls	2,456,018	2,444,218	- 11,800
	MQ-25 infrastructure early to need .....	.....	.....	- 11,800
8	CVN Refueling Overhauls [AP-CY]	66,262	66,262	.....
	CVN 75 AP (IFF in FY25-26)	[66,262]	[66,262]	.....
10	DDG-51	2,016,787	3,675,987	+ 1,659,200
	Program increase: One additional DDG-51 .....	.....	.....	+ 1,659,200
11	DDG-51 [AP-CY] .....	.....	120,000	+ 120,000
	Program increase: Advance procurement for DDG-51 ..	.....	.....	+ 120,000
13	FFG-Frigate	1,087,900	1,090,900	+ 3,000
	Program increase: Bromine free water systems .....	.....	.....	+ 3,000
14	FFG-Frigate [AP-CY]	69,100	.....	- 69,100
	Unjustified request for advance procurement .....	.....	.....	- 69,100
16	LPD Flight II [AP-CY] .....	.....	250,000	+ 250,000
	Program increase: Advance procurement for LPD 32 ..	.....	.....	+ 250,000
17	Expeditionary Sea Base (ESB) .....	.....	577,000	+ 577,000
	Program increase: Expeditionary Sea Base .....	.....	.....	+ 577,000
20	Expeditionary Fast Transport (EPF) .....	.....	590,000	+ 590,000
	Program increase: One additional EMS .....	.....	.....	+ 330,000
	Program increase: One additional EPF .....	.....	.....	+ 260,000
22	TAO Fleet Oiler [AP-CY]	76,012	.....	- 76,012
	Advance procurement early to need .....	.....	.....	- 76,012
26	Outfitting	655,707	641,260	- 14,447
	Submarine outfitting early to need .....	.....	.....	- 14,447
27	Ship to Shore Connector	156,738	351,738	+ 195,000
	Program increase: Three additional SSC .....	.....	.....	+ 195,000
30	Auxiliary Vessels	299,900	.....	- 299,900
	Auxiliary ships early to need .....	.....	.....	- 299,900

DDG-51 Flight III Multi-Year Procurement.—The Committee notes that the current multi-year procurement contract for the DDG-51 Flight III destroyer ends in fiscal year 2022, however the fiscal year 2022 President’s budget submission removes one DDG-51 Flight III, breaching the current multi-year contract. The Committee is troubled by the Navy’s decision to underfund this shipbuilding program, despite identifying the ship as the Navy’s highest unfunded priority. The Committee expects the Navy to honor

the commitments it has made to our domestic shipbuilding industrial base, and avoid paying unnecessary penalties that increase the cost of shipbuilding programs. The Committee remains deeply concerned that the Navy continually reduces the procurement profile for DDG-51 Flight III destroyers despite repeated delays to the Large Surface Combatant program, which undercuts naval maritime superiority and injects unnecessary risk into the industrial base. The Committee believes that the lack of a predictable and stable acquisition strategy for the current large surface combatants is inconsistent with previously stated shipbuilding objectives and will result in a reduction of force-level goals during a period of increasing demand. Therefore, the Committee encourages the Navy to finalize a follow-on DDG-51 destroyer multi-year procurement contract beginning in fiscal year 2023. The Committee also expects the Navy to structure the DDG-51 destroyer follow-on multi-year procurement to maximize the number of ships that can be procured under the contract, with the understanding that the shipbuilding industrial base can support at least three ships per year, if adequately funded. Therefore, the Committee recommendation includes an additional \$120,000,000 in advanced procurement for the follow-on DDG-51 destroyer multi-year procurement contract.

COLUMBIA Class Submarines.—The fiscal year 2022 President's budget request includes \$4,646,980,000 for the incrementally funded procurement of the first COLUMBIA Class submarine [CLB] and advance procurement [AP] of eleven additional hulls of the COLUMBIA Class. Included in the fiscal year 2022 President's budget request for AP is \$247,960,000 to implement Integrated Enterprise Plan [IEP] initiatives that were not identified in prior year budget submissions. The fiscal year 2022 President's budget justification material did not include the future year funding amounts required to implement the IEP initiatives requested in fiscal year 2022. The Committee supports Navy initiatives, such as IEP, that intend to mitigate cost and schedule risk for CLB and continues to provide unprecedented acquisition and funding flexibilities for CLB, including: authority to enter into economic order quantity contracts, authority to award contracts for advance construction, authority to award contracts for continuous production, incremental funding authority for advance procurement, authority for incremental full funding of the first two CLB hulls, as well as sizeable additional appropriations to support the submarine industrial base for both COLUMBIA and VIRGINIA Class submarines. However, the Committee is displeased with the insufficient details regarding the future year funding requirements for the IEP initiatives requested in the fiscal year 2022 budget submission, and is concerned about a similar lack of transparency for such initiatives requested in future budget submissions. Therefore, the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to submit to the congressional defense committees the Navy's fully funded IEP initiative strategy, by fiscal year, with the submission of any future President's budget request that includes funding for IEP initiatives.

CONSTELLATION Class Frigate.—The fiscal year 2022 President's budget request includes \$1,087,900 for the procurement of a third 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 2021. While the Committee recognizes the significant role that CCF will have in the future Navy battle force, and is based on a proven hull design and mature shipboard technologies, it remains a new class and presents typical first-in-class production challenges. The Committee notes the past challenges of the Navy and shipbuilding industrial base in managing costs, technical concurrency, design changes, and schedule of lead ships of a class. The Committee is concerned that prematurely adding a second CCF shipyard before the first shipyard has identified and corrected technical and production issues will inject unneeded risk and complexity into the program. Therefore, prior to award of a contract for a second CCF shipyard, the Committee directs the Secretary of the Navy to prioritize the following objectives: technology maturation and risk reduction for critical shipboard components; major systems integration; full ship technical data package creation; and successful operationally realistic testing for the first ship. The Committee also understands that setting up the CCF manufacturing capacity, workforce, and supply chain requires consistent year-over-year funding to meet the demand for production ramp up. Therefore, the Committee directs the Secretary of the Navy to submit a report not later than 90 days prior to awarding a contract for the second CCF shipyard to the congressional defense committees outlining the acquisition strategy for achieving the full Frigate Program of Record and meeting these technology maturation and risk reduction objectives.

OTHER PROCUREMENT, NAVY

Budget estimate, 2022	\$10,875,912,000
Committee recommendation	11,349,471,000

The Committee recommends an appropriation of \$11,349,471,000. This is \$473,559,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER PROCUREMENT, NAVY						
	SHIPS SUPPORT EQUIPMENT						
	SHIP PROPULSION EQUIPMENT						
1	SURFACE POWER EQUIPMENT		41,414		41,414		
	GENERATORS						
2	SURFACE COMBATANT HM&E		83,746		83,746		
	NAVIGATION EQUIPMENT						
3	OTHER NAVIGATION EQUIPMENT		72,300		72,300		
	OTHER SHIPBOARD EQUIPMENT						
4	SUB PERISCOPES, IMAGING AND SUPPORT EQUIPMENT PROGRAM		234,932		234,932		
5	DDG MOD		583,136		583,136		
6	FIREFIGHTING EQUIPMENT		15,040		15,040		
7	COMMAND AND CONTROL SWITCHBOARD		133,627		129,488		-4,139
8	LHA/LHD MIDLIFE		4,387		1,401		-2,986
9	LCC 19/20 EXTENDED SERVICE LIFE PROGRAM		18,159		18,159		
10	POLLUTION CONTROL EQUIPMENT		88,284		88,284		
11	SUBMARINE SUPPORT EQUIPMENT		22,669		22,669		
12	VIRGINIA CLASS SUPPORT EQUIPMENT		9,640		9,640		
13	LCS CLASS SUPPORT EQUIPMENT		21,834		21,834		
14	SUBMARINE BATTERIES		34,292		34,292		
15	LPD CLASS SUPPORT EQUIPMENT		126,107		85,907		-40,200
16	DDG-1000 CLASS SUPPORT EQUIPMENT		12,256		12,256		
17	STRATEGIC PLATFORM SUPPORT EQUIP		10,682		10,682		
18	DSSP EQUIPMENT		156,951		156,951		
19	CRUISER MODERNIZATION		21,314		21,314		
20	LCAC		24,146		24,146		
21	UNDERWATER EOD EQUIPMENT		84,789		84,789		
22	ITEMS LESS THAN \$5 MILLION		2,997		2,997		
23	CHEMICAL WARFARE DETECTORS						
25	SHIP MAINTENANCE, REPAIR AND MODERNIZATION		1,307,651		1,307,651		

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
26	REACTOR PLANT EQUIPMENT		3,270		3,270		
27	REACTOR POWER UNITS		438,729		438,729		
	REACTOR COMPONENTS						
28	OCEAN ENGINEERING		10,772		10,772		
	DIVING AND SALVAGE EQUIPMENT						
	SMALL BOATS						
29	STANDARD BOATS		58,770		58,770		
	PRODUCTION FACILITIES EQUIPMENT						
30	OPERATING FORCES IPE		168,822		468,822		+ 300,000
	OTHER SHIP SUPPORT						
31	LCS COMMON MISSION MODULES EQUIPMENT		74,231		74,231		
32	LCS MCM MISSION MODULES		40,630		30,119		- 10,511
33	LCS ASW MISSION MODULES		1,565		1,565		
34	LCS SUW MISSION MODULES		3,395		3,395		
35	LCS IN-SERVICE MODERNIZATION		122,591		118,326		- 4,265
36	SMALL & MEDIUM UUV		32,534		45,534		+ 13,000
	TOTAL, SHIPS SUPPORT EQUIPMENT		4,067,856		4,318,755		+ 250,899
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
	SHIP SONARS						
38	SPQ-9B RADAR		15,927		15,927		
39	AN/SQQ-89 SURF ASW COMBAT SYSTEM		131,829		131,829		
40	SSN ACOUSTICS EQUIPMENT		379,850		398,450		+ 18,600
41	UNDERSEA WARFARE SUPPORT EQUIPMENT		13,965		13,965		
	ASW ELECTRONIC EQUIPMENT						
42	SUBMARINE ACOUSTIC WARFARE SYSTEM		24,578		24,578		
43	SSTD		11,010		11,010		
44	FIXED SURVEILLANCE SYSTEM		363,651		363,651		
45	SURTASS		67,500		67,500		

46	ELECTRONIC WARFARE EQUIPMENT				360,817			-9,742
	AN/SLO-32							
	RECONNAISSANCE EQUIPMENT							
47	SHIPBOARD IW EXPLOIT			261,735	240,937			-20,798
48	AUTOMATED IDENTIFICATION SYSTEM [AIS]			3,771	3,771			
	OTHER SHIP ELECTRONIC EQUIPMENT							
49	COOPERATIVE ENGAGEMENT CAPABILITY			24,641	24,641			
50	NAVAL TACTICAL COMMAND SUPPORT SYSTEM [NTCSS]			14,439	14,439			
51	ATDLS			101,595	101,595			
52	NAVY COMMAND AND CONTROL SYSTEM [NCGS]			3,535	3,535			
53	MINESWEEPING SYSTEM REPLACEMENT			15,640	15,640			
54	SHALLOW WATER ICM			5,610	5,610			
55	NAVSTAR GPS RECEIVERS (SPACE)			33,097	33,097			
56	AMERICAN FORCES RADIO AND TV SERVICE			2,513	2,513			
57	STRATEGIC PLATFORM SUPPORT EQUIP			4,823	4,823			
	AVIATION ELECTRONIC EQUIPMENT							
58	ASHORE ATC EQUIPMENT			83,464	83,464			
59	AFLOAT ATC EQUIPMENT			67,055	67,055			
60	ID SYSTEMS			46,918	46,918			
61	JOINT PRECISION APPROACH AND LANDING SYSTEM			35,386	35,386			
62	NAVAL MISSION PLANNING SYSTEMS			17,951	17,951			
	OTHER SHORE ELECTRONIC EQUIPMENT							
63	MARITIME INTEGRATED BROADCAST SYSTEM			2,360	2,360			
64	TACTICAL/MOBILE C4I SYSTEMS			18,919	18,919			
65	DCGS-N			16,691	16,691			
66	CAMES			412,002	412,002			
67	RADIAC			9,074	9,074			
68	CAMES-INTELL			51,593	51,593			
69	GPETE			23,930	23,930			
70	NETWORK TACTICAL COMMON DATA LINK			8,795	8,795			
71	INTEG COMBAT SYSTEM TEST FACILITY			5,829	5,829			
72	EMI CONTROL INSTRUMENTATION			3,925	3,925			
73	ITEMS LESS THAN \$5 MILLION			156,042	156,042			
	SHIPBOARD COMMUNICATIONS							
74	SHIPBOARD TACTICAL COMMUNICATIONS			43,212	43,212			
75	SHIP COMMUNICATIONS AUTOMATION			90,724	90,724			
76	COMMUNICATIONS ITEMS UNDER \$5M			44,447	44,447			

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
77	SUBMARINE COMMUNICATIONS						
78	SUBMARINE BROADCAST SUPPORT		47,579		47,579		
	SUBMARINE COMMUNICATION EQUIPMENT		64,642		64,642		
79	SATELLITE COMMUNICATIONS						
80	SATELLITE COMMUNICATIONS SYSTEMS		38,636		38,636		
	NAVY MULTIBAND TERMINAL (NMT)		34,723		34,723		
	SHORE COMMUNICATIONS						
81	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)		2,651		2,651		
	CRYPTOGRAPHIC EQUIPMENT						
82	INFO SYSTEMS SECURITY PROGRAM [ISSP]		146,879		146,879		
83	MID INTEL EXPLOITATION TEAM		977		977		
	CRYPTOLOGIC EQUIPMENT						
84	CRYPTOLOGIC COMMUNICATIONS EQUIP		17,809		17,809		
	OTHER ELECTRONIC SUPPORT						
92	COAST GUARD EQUIPMENT		63,214		83,214		+ 20,000
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT		3,405,701		3,413,761		+ 8,060
	AVIATION SUPPORT EQUIPMENT						
	SONOBUOYS						
94	SONOBUOYS—ALL TYPES		249,121		303,521		+ 54,400
	AIRCRAFT SUPPORT EQUIPMENT						
95	MINOTAUR		4,963		4,963		
96	WEAPONS RANGE SUPPORT EQUIPMENT		98,898		98,898		
97	AIRCRAFT SUPPORT EQUIPMENT		178,647		178,647		
98	ADVANCED ARRESTING GEAR (AAG)		22,265		22,265		
99	METEOROLOGICAL EQUIPMENT		13,687		13,687		
100	LEGACY AIRBORNE MINE COUNTERMEASURES		4,446		4,446		
101	COMMON CONTROL SYSTEM		1,470		1,470		
102	AVIATION SUPPORT EQUIPMENT		70,665		70,665		

103	UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL		86,584	75,784		- 10,800
	ORDNANCE SUPPORT EQUIPMENT					
	TOTAL, AVIATION SUPPORT EQUIPMENT	730,746	774,346		+43,600	
104	SHIP GUN SYSTEM EQUIPMENT					
	SHIP GUN SYSTEMS EQUIPMENT	5,536	5,536			
105	SHIP MISSILE SYSTEMS EQUIPMENT					
	HARPOON SUPPORT EQUIPMENT	204	204			
106	SHIP MISSILE SUPPORT EQUIPMENT	237,987	233,987			- 4,000
107	TOMAHAWK SUPPORT EQUIPMENT	88,726	88,726			
108	FBM SUPPORT EQUIPMENT					
	STRATEGIC MISSILE SYSTEMS EQUIP	281,259	281,259			
109	ASW SUPPORT EQUIPMENT					
	SSN COMBAT CONTROL SYSTEMS	143,289	143,289			
110	ASW SUPPORT EQUIPMENT	30,595	30,595			
111	OTHER ORDNANCE SUPPORT EQUIPMENT					
	EXPLOSIVE ORDNANCE DISPOSAL EQUIP	1,721	1,721			
112	ITEMS LESS THAN \$5 MILLION	8,746	8,746			
113	OTHER EXPENDABLE ORDNANCE					
	ANTI-SHIP MISSILE DECOY SYSTEM	76,994	76,994			
114	SUBMARINE TRAINING DEVICE MODS	75,813	75,813			
115	SURFACE TRAINING EQUIPMENT	127,814	127,814			
	TOTAL, ORDNANCE SUPPORT EQUIPMENT	1,078,684	1,074,684			- 4,000
116	CIVIL ENGINEERING SUPPORT EQUIPMENT					
	PASSENGER CARRYING VEHICLES	4,140	4,140			
117	GENERAL PURPOSE TRUCKS	2,805	2,805			
118	CONSTRUCTION & MAINTENANCE EQUIP	48,403	48,403			
119	FIRE FIGHTING EQUIPMENT	15,084	15,084			
120	TACTICAL VEHICLES	27,400	27,400			
121	POLLUTION CONTROL EQUIPMENT	2,607	2,607			
122	ITEMS UNDER \$5 MILLION	51,963	51,963			
123	PHYSICAL SECURITY VEHICLES	1,165	1,165			
	TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT	153,567	153,567			

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
124	SUPPLY SUPPORT EQUIPMENT						
125	SUPPLY EQUIPMENT		24,698		24,698		
126	FIRST DESTINATION TRANSPORTATION		5,385		5,385		
	SPECIAL PURPOSE SUPPLY SYSTEMS		660,750		660,750		
	TOTAL, SUPPLY SUPPORT EQUIPMENT		690,833		690,833		
	PERSONNEL AND COMMAND SUPPORT EQUIPMENT						
	TRAINING DEVICES						
127	TRAINING SUPPORT EQUIPMENT		3,465		3,465		
128	TRAINING AND EDUCATION EQUIPMENT		60,114		60,114		
	COMMAND SUPPORT EQUIPMENT						
129	COMMAND SUPPORT EQUIPMENT		31,007		31,007		
130	MEDICAL SUPPORT EQUIPMENT		7,346		7,346		
132	NAVAL MIP SUPPORT EQUIPMENT		2,887		2,887		
133	OPERATING FORCES SUPPORT EQUIPMENT		12,815		12,815		
134	C4ISR EQUIPMENT		6,324		6,324		
135	ENVIRONMENTAL SUPPORT EQUIPMENT		25,098		25,098		
136	PHYSICAL SECURITY EQUIPMENT		110,647		110,647		
137	ENTERPRISE INFORMATION TECHNOLOGY		31,709		31,709		
141	NEXT GENERATION ENTERPRISE SERVICE		41		175,041		+ 175,000
142	CYBERSPACE ACTIVITIES		12,859		12,859		
	TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT		304,312		479,312		+ 175,000
143	SPARES AND REPAIR PARTS		424,405		424,405		
999	CLASSIFIED PROGRAMS		19,808		19,808		
	TOTAL, OTHER PROCUREMENT, NAVY		10,875,912		11,349,471		+ 473,559

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
8	LHA/LHD MIDLIFE	133,627	129,488	- 4,139
	Ballast and DC console excess to need			- 2,928
	ICT upgrade early to need			- 1,211
9	LCC 19/20 EXTENDED SERVICE LIFE PROGRAM	4,387	1,401	- 2,986
	Excess to need			- 2,986
16	DDG-1000 CLASS SUPPORT EQUIPMENT	126,107	85,907	- 40,200
	Data center lab insufficient budget justification			- 16,700
	CPS early to need			- 23,500
30	OPERATING FORCES IPE	168,822	468,822	+ 300,000
	Program increase: Naval Shipyard Capital Investment Program			+ 300,000
32	LCS MCM MISSION MODULES	40,630	30,119	- 10,511
	AN/SLW-2 unmanned surface vehicle early to need ...			- 10,511
35	LCS IN-SERVICE MODERNIZATION	122,591	118,326	- 4,265
	LCS maintenance modernization insufficient budget justification			- 4,265
36	SMALL & MEDIUM UUV	32,534	45,534	+ 13,000
	Program increase			+ 13,000
40	SSN ACOUSTICS EQUIPMENT	379,850	398,450	+ 18,600
	Program increase: TB-29C towed arrays			+ 18,600
46	AN/SLQ-32	370,559	360,817	- 9,742
	Block 3 spares and ECPs unjustified growth			- 9,742
47	SHIPBOARD IW EXLPOIT	261,735	240,937	- 20,798
	SSEE Increment F(V)7/8 ship—below deck and core excess to need			- 16,749
	SSEE Increment F(V)7/8 ship—infrastructure excess to need			- 4,049
92	COAST GUARD EQUIPMENT	63,214	83,214	+ 20,000
	Program increase: Sea Giraffe (AN/SPS 77) tech data transfer and test asset			+ 20,000
94	SONOBUOYS—ALL TYPES	249,121	303,521	+ 54,400
	Program increase: Additional sonobuoys—all types ...			+ 54,400
103	UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL MQ-25 infrastructure early to need (CVN 72)	86,584	75,784	- 10,800
	Ground control station insufficient budget justification			- 4,900
106	SHIP MISSILE SUPPORT EQUIPMENT	237,987	233,987	- 4,000
	OTH WS installation excess to need			- 4,000
141	NEXT GENERATION ENTERPRISE SERVICE	41	175,041	+ 175,000
	Transfer from RDTE,N line 255			+ 175,000

PROCUREMENT, MARINE CORPS

Budget estimate, 2022	\$3,043,091,000
Committee recommendation	3,496,614,000

The Committee recommends an appropriation of \$3,496,614,000. This is \$453,523,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROCUREMENT, MARINE CORPS						
	WEAPONS AND COMBAT VEHICLES						
	TRACKED COMBAT VEHICLES						
1	AAV7A1 PIP	92	36,836		36,836		
2	AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES		532,355	92	520,697		-11,658
3	LAV PIP		23,476		22,116		-1,360
	ARTILLERY AND OTHER WEAPONS						
4	155MM LIGHTWEIGHT TOWED HOWITZER		32		32		
5	ARTILLERY WEAPONS SYSTEM		67,548		221,347		+153,799
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION		35,402		33,712		-1,690
	OTHER SUPPORT						
	TOTAL, WEAPONS AND COMBAT VEHICLES		695,649		834,740		+139,091
	GUIDED MISSILES AND EQUIPMENT						
	GUIDED MISSILES						
8	GROUND BASED AIR DEFENSE		9,349		9,349		
9	ANTI-ARMOR MISSILE—JAVELIN	1	937	1	937		
10	FAMILY OF ANTI-ARMOR WEAPON SYSTEMS		20,481		20,481		
11	ANTI-ARMOR MISSILE—TOW		14,359		9,793		-4,566
12	GUIDED MLRS ROCKET (GMLRS)	654	98,299	654	76,368		-21,931
	TOTAL, GUIDED MISSILES AND EQUIPMENT		143,425		116,928		-26,497
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
	COMMAND AND CONTROL SYSTEMS						
13	COMMON AVIATION COMMAND AND CONTROL SYSTEM		18,247		18,247		
	REPAIR AND TEST EQUIPMENT						
14	REPAIR AND TEST EQUIPMENT		33,554		33,554		
15	MODIFICATION KITS	167	167		167		

	OTHER SUPPORT (TEL)								
	COMMAND AND CONTROL								
16	ITEMS UNDER \$5 MILLION (COMM & ELEC)					103,632			+38,753
17	AIR OPERATIONS C2 SYSTEMS					1,291			
19	RADAR + EQUIPMENT (NON-TEL)				16	643,369		+8	+346,000
	GROUND/AIR TASK ORIENTED RADAR								
	INTELL/COMM EQUIPMENT (NON-TEL)	8							
20	GCSS-MC								-604
21	FIRE SUPPORT SYSTEM					39,810			
22	INTELLIGENCE SUPPORT EQUIPMENT					63,274			-4,035
24	UNMANNED AIR SYSTEMS (INTEL)					24,299			
25	DCGS-MC					28,633			
26	UAS PAYLOADS					3,074			-656
29	OTHER SUPPORT (NON-TEL)								-4,351
	NEXT GENERATION ENTERPRISE NETWORK					92,709			-4,000
30	COMMON COMPUTER RESOURCES					79,606			-5,075
31	COMMAND POST SYSTEMS					48,633			
32	RADIO SYSTEMS					468,678			
33	COMM SWITCHING & CONTROL SYSTEMS					49,600			-6,000
34	COMM & ELEC INFRASTRUCTURE SUPPORT					110,835			-4,892
35	CYBERSPACE ACTIVITIES					25,377			+21,235
	CLASSIFIED PROGRAMS					4,034			
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT					1,849,165			+376,375
	SUPPORT VEHICLES								
	ADMINISTRATIVE VEHICLES								
38	COMMERCIAL CARGO VEHICLES					17,848			
	TACTICAL VEHICLES								
39	MOTOR TRANSPORT MODIFICATIONS					23,363			-1,439
40	JOINT LIGHT TACTICAL VEHICLE	613				322,013	613		-5,896
41	FAMILY OF TACTICAL TRAILERS								
42	TRAILERS					9,876			
	TOTAL, SUPPORT VEHICLES					373,100			-7,335

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	ENGINEER AND OTHER EQUIPMENT						
	ENGINEER AND OTHER EQUIPMENT						
43	ENVIRONMENTAL CONTROL EQUIP ASSORTED		2,161		2,161		
44	TACTICAL FUEL SYSTEMS		26,625		16,040		-10,585
45	POWER EQUIPMENT ASSORTED		17,119		15,909		-1,210
46	AMPHIBIOUS SUPPORT EQUIPMENT		94,472		94,472		
47	EOD SYSTEMS						
	MATERIALS HANDLING EQUIPMENT						
48	PHYSICAL SECURITY EQUIPMENT		84,513		65,820		-18,693
	GENERAL PROPERTY						
49	FIELD MEDICAL EQUIPMENT		8,105		8,105		
50	TRAINING DEVICES		37,814		35,211		-2,603
51	FAMILY OF CONSTRUCTION EQUIPMENT		34,658		39,638		+4,980
52	ULTRA-LIGHT TACTICAL VEHICLE		15,439		15,439		
	OTHER SUPPORT						
53	ITEMS LESS THAN \$5 MILLION		4,402		4,402		
	TOTAL, ENGINEER AND OTHER EQUIPMENT		325,308		297,197		-28,111
54	SPARES AND REPAIR PARTS		32,819		32,819		
	CLASSIFIED PROGRAMS						
	TOTAL, PROCUREMENT, MARINE CORPS		3,043,091		3,496,614		+453,523

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
2	Amphibious Combat Vehicle Family of Vehicles	532,355	520,697	-11,658
	Reduce Carryover: Engineering Change Orders			-3,000
	Unjustified Growth: Nonrecurring Engineering & Industrial Tooling			-8,658
3	LAV PIP	23,476	22,116	-1,360
	Reduce carryover			-1,360
5	Artillery Weapons System	67,548	221,347	+153,799
	Program increase: Tactical Tomahawk (TACTOM)			+96,000
	Program increase: Naval Strike Missile (NSM)			+57,799
6	Weapons and Combat Vehicles Under \$5 Million	35,402	33,712	-1,690
	Unjustified Request: Principal End Item (PEI) Re-Procurement Semi-Automatic Sniper System (SASS)			-1,690
11	Anti-Armor Missile-TOW	14,359	9,793	-4,566
	Restoring Acquisition Accountability: Guided missiles			-4,566
12	Guided MLRS Rocket [GMLRS]	98,299	76,368	-21,931
	Restoring Acquisition Accountability: Tactical GMLRS Hardware			-21,931
16	Items Under \$5 Million (Comm & Elec)	64,879	103,632	+38,753
	Program increase: Squad Binocular Night Vision Goggle			+40,000
	Unjustified Growth: SIGMAN Equipment			-1,247
19	Ground/Air Task Oriented Radar (G/ATOR)	297,369	643,369	+346,000
	Early to Need: Depot Tooling Facilitization			-2,000
	Program increase: G/ATOR Radars			+304,000
	Program increase: AN/TPS-80 Ground/ Air Task-Oriented Radar (G/ATOR) Long Range Radar			+44,000
20	GCSS-MC	604		-604
	Reduce Carryover			-604
22	Intelligence Support Equipment	67,309	63,274	-4,035
	Program increase: Sensitive Compartmented Information Network (SCINet)			+5,551
	Quantities Previously Funded: Ground Electronic Attack System Core			-2,688
	Reduce Carryover			-6,898
26	UAS Payloads	3,730	3,074	-656
	Excess to Need			-656
29	Next Generation Enterprise Network	97,060	92,709	-4,351
	Early to Need: EUD Tech Refresh			-4,351
30	Common Computer Resources	83,606	79,606	-4,000
	Early to Need: Wargaming Hardware			-2,000
	Early to Need: Recruit Training			-2,000
31	Command Post Systems	53,708	48,633	-5,075
	Early to need: NOTM ULTV Systems			-5,075
33	Comm Switching & Control Systems	49,600	43,600	-6,000
	Reduce Carryover: ECP Networking Equipment			-3,000
	Unjustified Request: ECP Cryptographic Equipment			-3,000
34	Comm & Elec Infrastructure Support	110,835	105,943	-4,892
	Early to Need: BTI Defense Policy Review Initiative Guam			-4,892
35	Cyberspace Activities	25,377	46,612	+21,235
	Program increase: Defensive Cyber Operations (DCO)—Internal Defensive Measures (IDM) Kits			+21,235
39	Motor Transport Modifications	23,363	21,924	-1,439
	Unjustified Growth: Light tactical vehicle modifications engineering change proposals			-1,439
40	Joint Light Tactical Vehicle	322,013	316,117	-5,896
	Unjustified Growth: System Technical Support			-5,896
45	Power Equipment Assorted	26,625	16,040	-10,585
	Excess to Need: IPMS Intelligent Power Distribution			-10,585

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
46	Amphibious Support Equipment	17,119	15,909	- 1,210
	Early to Need: Enhanced Combat Rubber Reconnaissance Craft			- 1,210
48	Physical Security Equipment	84,513	65,820	- 18,693
	Early to Need: Collateral Equipment			- 18,693
50	Training Devices	37,814	35,211	- 2,603
	Previously Funded: RTAM Multiple Instrum			- 2,603
51	Family of Construction Equipment	34,658	39,638	+ 4,980
	Program increase: Rough Terrain Container Handler ...			+ 4,980

AIRCRAFT PROCUREMENT, AIR FORCE

Budget estimate, 2022 \$15,727,669,000
 Committee recommendation 17,311,222,000

The Committee recommends an appropriation of \$17,311,222,000.
 This is \$1,583,553,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
AIRCRAFT PROCUREMENT, AIR FORCE							
1	COMBAT AIRCRAFT B-21 RAIDER (AP-CY)		108,027		108,027		
TACTICAL FORCES							
2	F-35	48	4,167,604	48	4,061,212		-106,392
3	F-35 (AP-CY)		352,632		352,632		
5	F-15EX	12	1,186,903	12	1,113,456		-73,447
6	F-15EX (AP-CY)		147,919		147,919		
	TOTAL, COMBAT AIRCRAFT		5,963,085		5,783,246		-179,839
AIRLIFT AIRCRAFT/TACTICAL AIRLIFT							
7	KC-46A TANKER	14	2,380,315	14	2,209,015		-171,300
OTHER AIRLIFT							
8	C-130J		128,896	16	1,984,006		+1,855,110
9	MC-130J	3	220,049	3	220,049		
10	MC-130J (AP)						
	TOTAL, AIRLIFT AIRCRAFT		2,729,260		4,413,070		+1,683,810
OTHER AIRCRAFT							
TRAINER AIRCRAFT							
11	ADVANCED TRAINER REPLACEMENT T-X		10,397				-10,397
HELICOPTERS							
12	UH-1H REPLACEMENT	8		8	141,360		+141,360
13	COMBAT RESCUE HELICOPTER	14	792,221	14	695,791		-96,430
MISSION SUPPORT AIRCRAFT							
16	CIVIL AIR PATROL A/C		2,813		11,400		+8,587
OTHER AIRCRAFT							
17	TARGET DRONES	22	116,169	22	112,443		-3,726
19	E-11 BACN/HAG		124,435		124,435		

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
21	MQ-9		3,288		3,288		
	TOTAL, OTHER AIRCRAFT		1,049,323		1,088,717		+ 39,394
	MODIFICATION OF INSERVICE AIRCRAFT						
	STRATEGIC AIRCRAFT						
23	B-2A		29,944		29,944		
24	B-1B		30,518		27,406		- 3,112
25	B-52		74,957		70,420		- 4,537
26	COMBAT RESCUE HELICOPTER		61,191				- 61,191
27	LARGE AIRCRAFT INFRARED COUNTERMEASURES		57,001		38,542		- 18,459
	TACTICAL AIRCRAFT						
28	A-10		83,621		83,621		
29	E-11 BACN/HAG		68,955		68,955		
30	F-15		234,340		180,836		- 53,504
31	F-16		613,166		490,074		- 123,092
32	F-22A		424,722		340,445		- 84,277
33	F-35 MODIFICATIONS		304,135		234,473		- 69,662
34	F-15 EPAW	6	149,797		149,797		
36	KC-46A MODS		1,984		1,984		
	AIRLIFT AIRCRAFT						
37	C-5		25,431		20,330		- 5,101
38	C-17A		59,570		54,649		- 4,921
40	C-32A		1,949		1,949		
41	C-37A		5,984		5,984		
	TRAINER AIRCRAFT						
42	GLIDER MODS		142		142		
43	T6		8,735		8,735		
44	T-1		3,872		872		- 3,000
45	T-38		49,851		45,039		- 4,812
	OTHER AIRCRAFT						
46	U-2 MODS		126,809		76,821		- 49,988

47	KC-10A [ATCA]	1,902	1,902		1,902	
49	VC-25A MOD	96	96		96	
50	C-40	262	262		262	
51	C-130	29,071	42,251		42,251	+ 13,180
52	C130J MODS	110,784	110,784		110,784	
53	C-135	61,376	58,776		58,776	- 2,600
54	COMPASS CALL MODS	195,098	195,098		195,098	
56	RC-135	207,596	207,596		207,596	
57	E-3	109,855	91,964		91,964	- 17,891
58	E-4	19,081	10,981		10,981	- 8,100
59	E-8	16,312	16,312		16,312	
60	AIRBORNE WARNING AND CNTRL SYS (AWACS) 40/45	30,327	24,827		24,827	- 5,500
62	H-1	1,533	1,533		1,533	
63	H-60	13,709	14,479		14,479	+ 770
64	RQ-4 MODS	3,205	3,205		3,205	
65	HC/MC-130 MODIFICATIONS	150,263	148,063		148,063	- 2,200
66	OTHER AIRCRAFT	54,828	54,828		54,828	
67	MQ-9 MODS	144,287	144,287		144,287	
68	MQ-9 UAS PAYLOADS	40,800	55,200		55,200	+ 14,400
69	SENIOR LEADER C3, SYSTEM—AIRCRAFT	23,554	23,554		23,554	
70	CV-22 MODS	158,162	230,962		230,962	+ 72,800
	TOTAL, MODIFICATION OF INSERVICE AIRCRAFT	3,788,775	3,367,978		3,367,978	- 420,797
71	AIRCRAFT SPARES AND REPAIR PARTS	923,573	1,007,068		1,007,068	+ 83,495
	INITIAL SPARES/REPAIR PARTS					
	TOTAL, AIRCRAFT SPARES AND REPAIR PARTS	923,573	1,007,068		1,007,068	+ 83,495
72	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	138,761	138,761		138,761	
	COMMON SUPPORT EQUIPMENT					
	AIRCRAFT REPLACEMENT SUPPORT EQUIP					
	POST PRODUCTION SUPPORT					
73	B-2A	1,651	1,651		1,651	
74	B-2B	38,811	38,811		38,811	
75	B-52	5,602	3,602		3,602	- 2,000
78	F-15	2,324	2,324		2,324	
79	F-16 POST PRODUCTION SUPPORT	10,456	10,456		10,456	
81	RQ-4 POST PRODUCTION CHARGES	24,592	24,592		24,592	

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
82	INDUSTRIAL PREPAREDNESS		18,110		18,110		
	INDUSTRIAL PREPAREDNESS						
	WAR CONSUMABLES						
83	WAR CONSUMABLES		35,866		35,866		
	OTHER PRODUCTION CHARGES						
84	OTHER PRODUCTION CHARGES		979,388		1,358,878		+379,490
	TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		1,255,561		1,633,051		+377,490
999	CLASSIFIED PROGRAMS		18,092		18,092		
	TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE		15,727,669		17,311,222		+1,583,553

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
2	F-35	4,167,604	4,061,212	-106,392
	Historical overestimation of AME			-130,448
	Historical overestimation of NRE			-54,272
	Unit cost adjustment			-96,672
	Program increase: Depot acceleration			+175,000
5	F-15EX	1,186,903	1,113,456	-73,447
	Unit cost adjustment			-51,347
	Depot activation ahead of need			-22,100
7	KC-46A Tanker	2,380,315	2,209,015	-171,300
	ECO excess to need			-82,400
	G-SIL delays			-88,900
8	C-130J	128,896	1,984,006	+1,855,110
	Program increase: Sixteen aircraft only for Air National Guard operational squadrons			+1,828,800
	Program increase: DMS requirements			+26,310
11	Advanced Trainer Replacement T-X	10,397		-10,397
	Ahead of need			-10,397
12	UH-1N Replacement		141,360	+141,360
	Reappropriation of FY22 funds for 8 aircraft			+141,360
13	Combat Rescue Helicopter	792,221	695,791	-96,430
	Airframe unit cost adjustment			-35,303
	Other flyaway cost adjustment			-12,997
	Overestimation of training requirements			-48,130
16	Civil Air Patrol A/C	2,813	11,400	+8,587
	Program increase			+8,587
17	Target Drones	116,169	112,443	-3,726
	Excess to requirement			-3,726
24	B-1B	30,518	27,406	-3,112
	Radio Crypto mod ahead of need			-3,112
25	B-52	74,957	70,420	-4,537
	Air Force-requested transfer from line 71 for GPS-IU			+7,863
	TDL production decision delays			-10,000
	Low cost improvements ahead of need			-2,400
26	Combat Rescue Helicopter	61,191		-61,191
	DAIRCM ahead of need			-61,191
27	Large Aircraft Infrared Countermeasures	57,001	38,542	-18,459
	Prior year installation carryover			-18,459
30	F-15	234,340	180,836	-53,504
	ADCP II contract delays			-28,329
	ADCP Depot gap analysis ahead of need			-10,029
	F-15E digital color display ahead of need			-15,146
31	F-16	613,166	490,074	-123,092
	MMC/PDG development delays			-15,386
	Unjustified growth-MMC/PDG interim contractor support			-4,795
	Comm suite installations ahead of need			-10,368
	ALR-69A DRWR decision point alignment			-49,964
	Center Display Unit excess to need			-610
	AESA unit cost adjustment			-33,449
	SLEP induction delays			-8,520
32	F-22A	424,722	340,445	-84,277
	OGC carryover			-13,326
	Sensor enhancement contract delay			-64,882
	Link 16 block 35-ACAT carryover			-6,069
33	F-35 Modifications	304,135	234,473	-69,662
	SLLP2 delays			-25,662
	Block 4 A-kits ahead of need			-44,000
37	C-5	25,431	20,330	-5,101
	CNS/ATM excess to need			-5,101

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
38	C-17A	59,570	54,649	-4,921
	PMA carryover			-2,200
	RHUD installations excess to need			-2,721
44	T-1	3,872	872	-3,000
	AMP A-kit excess to need			-3,000
45	T-38	49,851	45,039	-4,812
	MFD/EED ahead of need			-1,554
	Overestimation of PCIII installation costs			-3,258
46	U-2 Mods	126,809	76,821	-49,988
	ASARS-2B contract delay			-49,988
51	C-130	29,071	42,251	+13,180
	AMP Inc 2 installations ahead of need			-6,820
	Program increase: Airborne firefighting systems			+20,000
53	C-135	61,376	58,776	-2,600
	RPI delays			-2,600
57	E-3	109,855	91,964	-17,891
	ACIP ahead of need			-17,891
58	E-4	19,081	10,981	-8,100
	AEHF installation ahead of need			-8,100
60	Airborne Warning and Cntrl Sys [AWACS] 40/45	30,327	24,827	-5,500
	Overestimation of block 40/45 kit installation costs			-5,500
63	H-60	13,709	14,479	+770
	OLR ICS contract delay			-1,000
	DSU ICS excess to need			-3,600
	Program increase: Combat rescue helicopter load stabilizers			+5,370
65	HC/MC-130 Modifications	150,263	148,063	-2,200
	SACU installations ahead of need			-2,200
68	MQ-9 UAS Payloads	40,800	55,200	+14,400
	Program increase: Gorgon Stare			+14,400
70	CV-22 Mods	158,162	230,962	+72,800
	Overestimation of OGA costs			-4,700
	Level II Air Vehicle carryover			-4,900
	Program increase: CV-22 nacelle enhancement			+82,400
71	Initial Spares/Repair Parts	923,573	1,007,068	+83,495
	Air Force-requested transfer to line 25 for GPS-IU			-7,863
	F-15E carryover			-8,250
	F-22 carryover			-8,543
	KC-46A award delays			-55,000
	HH-60 DVE termination			-1,849
	C-17 contract delay			-10,000
	Program increase: F135 spare engine power modules			+175,000
75	B-52	5,602	3,602	-2,000
	CONNECT ICS carryover			-2,000
84	Other Production Charges	979,388	1,358,878	+379,490
	Program increase: P6 combat training system			+14,490
	Classified adjustment			+365,000

C-130 Diminishing Manufacturing Sources.—In order to maintain a viable production line, the Department of the Air Force has informed the Committee of a \$301,000,000 requirement for diminishing manufacturing sources [DMS] investments through fiscal year 2026. The Committee supports the continued investment in C-130J aircraft and recommends \$1,828,000,000 for sixteen aircraft for the Air National Guard. Based on estimates provided by the Air Force, this investment includes \$96,000,000 for allocation toward resolution of DMS issues.

The Committee notes that the fiscal year 2022 President’s budget request for C-130J also includes \$113,281,000 to support DMS issues. Further, the Air Force has identified an additional \$65,409,000 in the MC-130J budget line that is available within

the program for repurposing towards DMS. In total, \$274,690,000 is recommended in this act to help resolve the DMS issues and maintain a viable production line into future years.

Further, the Committee notes the availability of excess fiscal year 2020 funding due to negotiated savings from the multi-year procurement contract. This led the Air Force to notify the Congress of its intent to purchase an additional aircraft with fiscal year 2020 funding. This has created an excess of one aircraft over and above the validated fleet requirement between the fiscal year 2021 appropriation and fiscal year 2022 President's budget. As a result, the Committee understands that the Air Force plans to reduce fiscal year 2021 MC-130J aircraft purchases by one aircraft. This decision, along with additional savings within the MC-130J program will result in \$207,690,000 of excess fiscal year 2021 appropriations that the Air Force could apply to DMS efforts. While the Committee maintains its staunch support for the C-130J program, \$133,380,000 is in excess of the total identified DMS requirement leaving a requirement of \$26,310,000 outstanding.

The Committee is committed to working with the Air Force to resolve the outstanding DMS requirements and recommends an additional program increase of \$26,310,000 to fulfill the requirement. The Secretary of the Air Force is directed to submit an updated list of C-130J DMS requirements with the total estimated costs by effort for each fiscal year to the Committees on Appropriations of the House of Representatives and the Senate with the fiscal year 2023 President's budget request. This list shall also include current resources applied to the DMS efforts, as well as any additional resources allocated to those efforts within the fiscal year 2023 Future Years Defense Program, including the current year and prior year.

Transfer of Excess Global Hawk Aircraft.—The Committee supports the Air Force's plan to divest RQ-4 Global Hawk block 20 and block 30 airframes as it modernizes its intelligence, surveillance, and reconnaissance capabilities. The Committee notes that the Department of Defense, through its Test Resource Management Center [TRMC], is investing in efforts to develop its SkyRange capability with the goal of using unmanned aerial systems-based range sensors to support hypersonic flight tests. The Committee believes that the divestiture of RQ-4 block 20 and block 30 assets provides a significant opportunity to repurpose these airframes for use in the complex test architecture needed to support continued development of hypersonic capabilities. Further, the Committee notes that the block 20 aircraft were transferred to TRMC in fiscal year 2021 for this purpose. Therefore, the Committee urges the Air Force to make excess inventory of RQ-4 Global Hawk block 30 airframes available for transfer to the TRMC, as needed.

MISSILE PROCUREMENT, AIR FORCE

Budget estimate, 2022	\$2,669,811,000
Committee recommendation	2,584,306,000

The Committee recommends an appropriation of \$2,584,306,000. This is \$85,505 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.	2022 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		57,793		57,793		
2	GROUND BASED STRATEGIC DETERRENT		10,895				- 10,895
2A	GROUND BASED STRATEGIC DETERRENT ADVANCE PROCUREMENT [AP-CY]				8,895		+ 8,895
	OTHER MISSILES						
	TACTICAL						
3	REPLAC EQUIP & WAR CONSUMIBLES		7,681		7,681		
4	AGM-183A AIR-LAUNCHED RAPID RESPONSE WEAPON		160,850		80,425		- 80,425
6	JOINT AIR-SURFACE STANDOFF MISSILE [JASSM]	525	710,550	525	710,550		
8	SEWINDER (AIM-9X)	243	107,587	243	102,507		- 5,080
9	AWRAAM	168	214,002	168	214,002		
10	PREDATOR HELLFIRE MISSILE	1176	103,684	1176	103,684		
11	SMALL DIAMETER BOMB	998	82,819	998	82,819		
12	SMALL DIAMETER BOMB II	985	294,649	985	294,649		
	INDUSTRIAL FACILITIES						
13	INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION		757		757		
	TOTAL, OTHER MISSILES		1,682,579		1,597,074		- 85,505
	MODIFICATION OF INSERVICE MISSILES						
	CLASS IV						
15	ICBM FUZE MOD	40	53,013	40	65,263		+ 12,250
16	ICBM FUZE MOD Advance Procurement (CY)		47,757		35,507		- 12,250
17	MM III MODIFICATIONS		88,579		88,579		
19	AIR LAUNCH CRUISE MISSILE		46,799		46,799		
	TOTAL, MODIFICATION OF INSERVICE MISSILES		236,148		236,148		
	SPARES AND REPAIR PARTS						
20	INITIAL SPARES/REPAIR PARTS		14,212		16,212		+ 2,000

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
21	REPLEN SPARES/REPAIR PARTS		63,547		63,547		
22	INITIAL SPARES/REPAIR PARTS		4,045		4,045		
	TOTAL, SPARES AND REPAIR PARTS		81,804		83,804		+ 2,000
	SPECIAL PROGRAMS						
27	SPECIAL UPDATE PROGRAMS		30,352		30,352		
	CLASSIFIED PROGRAMS		570,240		570,240		
	TOTAL, SPECIAL PROGRAMS		600,592		600,592		
	TOTAL, MISSILE PROCUREMENT, AIR FORCE		2,669,811		2,584,306		- 85,505

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
2	Ground Based Strategic Deterrent	10,895	.....	-10,895
	Air Force-requested technical adjustment to line 20 ..	.....	.....	-2,000
	Air Force-requested technical adjustment to line 2A ..	.....	.....	-8,895
2A	Ground Based Strategic Deterrent Advance Procurement [AP-CY] .....	.....	8,895	+8,895
	Air Force-requested technical adjustment from line 2 .....	.....	.....	+8,895
4	AGM-183A Air-Launched Rapid Response Weapon	160,850	80,425	-80,425
	Early to need .....	.....	.....	-80,425
8	Sidewinder (AIM-9X)	107,587	102,507	-5,080
	Unit cost adjustment: AUR Block II .....	.....	.....	-3,720
	Unit cost adjustment: CATM Block II .....	.....	.....	-1,360
15	ICBM FUZE MOD	53,013	65,263	+12,250
	Air Force requested transfer from line 16 .....	.....	.....	+12,250
16	ICBM FUZE MOD Advance Procurement (CY)	47,757	35,507	-12,250
	Air Force requested transfer to line 15 .....	.....	.....	-12,250
20	Msl Sprs/Repair Parts (Initial)	14,212	16,212	+2,000
	Air Force-requested technical adjustment from line 2 .....	.....	.....	+2,000

PROCUREMENT OF AMMUNITION, AIR FORCE

Budget estimate, 2022	\$795,168,000
Committee recommendation	667,227,000

The Committee recommends an appropriation of \$667,227,000. This is \$127,941,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
PROCUREMENT OF AMMUNITION, AIR FORCE							
1	PROCUREMENT OF AMMO, AIR FORCE						
	ROCKETS		36,572		36,572		-25
2	CARTRIDGES		169,163		161,917		-7,246
BOMBS							
3	PRACTICE BOMBS		48,745		48,745		
4	GENERAL PURPOSE BOMBS		176,565		160,976		-15,589
5	MASSIVE ORDNANCE PENETRATOR (MOP)		15,500		15,500		
6	JOINT DIRECT ATTACK MUNITION	1919	124,102		48,584	-1,919	-75,518
7	B61		2,709		2,709		
9	CAD/PAD		47,210		59,010		+11,800
10	EXPLOSIVE ORDNANCE DISPOSAL [EOD]		6,151		5,151		-1,000
11	SPARES AND REPAIR PARTS		535		535		
12	MODIFICATIONS		292		292		
13	ITEMS LESS THAN \$5,000,000		9,164		9,164		
FLARES/FUZES							
15	FLARES		95,297		85,934		-9,363
16	FUZES		50,795		20,795		-30,000
TOTAL, PROCUREMENT OF AMMO, AIR FORCE							
			782,825		655,884		-126,941
WEAPONS							
17	SMALL ARMS		12,343		11,343		-1,000
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE							
			795,168		667,227		-127,941

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Rockets	36,597	36,572	- 25
	Excess to Need: Warhead SMK M156			- 25
2	Cartridges	169,163	161,917	- 7,246
	Quantities Previously Funded: A165 Cartridge 7.62MM M80			- 1,650
	Quantities Previously Funded: AA24 20MM, TP PGU-27 A/B			- 3,197
	Excess to Need: BA54			- 2,399
4	General Purpose Bombs	176,565	160,976	- 15,589
	Quantities Previously Funded: BLU-136/B 2000LB GP Bomb			- 15,589
6	Joint Direct Attack Munition	124,102	48,584	- 75,518
	Prior year carryover: JDAM Tail Kits			- 75,518
8	Cad/Pad	47,210	59,010	+ 11,800
	Program increase: CAD/PAD safety improvements			+ 11,800
9	Explosive Ordnance Disposal [EOD]	6,151	5,151	- 1,000
	Excess to Need: CTG, 50 CAL Elec Blank MK201 MOD 1			- 500
	Excess to Need: M031 CHG Demo TNT 1/2 LB			- 500
13	Flares	95,297	85,934	- 9,363
	Excess to Need: LA85 MJU-75 Flare			- 9,363
14	Fuzes	50,795	20,795	- 30,000
	Early to Need: C-HOBS			- 25,000
	Reduce Carryover: FMU-139D/B			- 5,000
15	Small Arms	12,343	11,343	- 1,000
	Unjustified Growth: Hold for Price Adjustments			- 1,000

Aligning the Non-Nuclear Consumables Annual Analysis with Acquisition.—The Committee is aware of the Non-Nuclear Consumables Annual Analysis, which is the process for updating the Air Force's non-nuclear total munitions requirement. The Committee is concerned that annual budget requests and supporting documentation fail to sufficiently connect proposed acquisition activities with current requirements information. In past fiscal years, discontinuity between the budget request and current requirements have resulted in the realignment of appropriated funds within the year of execution as an accepted and common practice. Therefore, the Committee directs the Secretary of the Air Force to study the sequencing of the Non-Nuclear Consumables Annual Analysis in relation to the development of its budget requests and identify opportunities for strengthening the fidelity of future year budget requests. The Secretary of the Air Force shall submit a report to the congressional defense committees on its findings and recommendations not later than 90 days after the enactment of this act.

Cartridge Actuated Devices/ Propellant Actuated Devices Safety.—Cartridge Actuated Devices/ Propellant Actuated Devices [CAD/PAD] are energetic life-limited critical safety items used in emergency egress, fire suppression, aerial refueling, and other various missions. The Committee is aware of the considerable technical debt within the Air Force's supply of CAD/PAD devices, which has led to the issuance of an excess number of temporary life extensions for CAD/PAD devices. The Air Force's reliance on these

temporary life extensions concerns the Committee, particularly given that an outdated CAD/PAD device was identified as a substantial contributing factor in a June 2020 F-16 mishap event. Therefore, the Committee recommends an increase of \$11,800,000 to address this problem, and directs the Secretary of the Air Force to conduct a review of the current number of CAD/PAD devices operating with temporary life extensions, and to develop a plan to align future year acquisition and installation activities to mitigate any identified deficiencies. The Secretary of the Air Force shall provide the congressional defense committees with a report containing the findings of this review not later than 90 days after of the enactment of this act.

OTHER PROCUREMENT, AIR FORCE

Budget estimate, 2022	\$25,251,137,000
Committee recommendation	26,367,426,000

The Committee recommends an appropriation of \$26,367,426,000. This is \$1,116,289,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	OTHER PROCUREMENT, AIR FORCE						
	VEHICULAR EQUIPMENT						
1	PASSENGER CARRYING VEHICLES		8,448		8,448		
2	PASSENGER CARRYING VEHICLES						
3	CARGO AND UTILITY VEHICLES		5,804		5,804		
4	MEDIUM TACTICAL VEHICLE		1,066		1,800		+ 734
5	CAP VEHICLES		57,459		57,459		
6	CARGO AND UTILITY VEHICLES						
7	SPECIAL PURPOSE VEHICLES		97,326		97,326		
8	JOINT LIGHT TACTICAL VEHICLE		488		6,088		+ 5,600
9	SECURITY AND TACTICAL VEHICLES		75,694		77,694		+ 2,000
10	SPECIAL PURPOSE VEHICLES						
11	FIRE FIGHTING EQUIPMENT		12,525		12,525		
12	FIRE FIGHTING/CRAASH RESCUE VEHICLES						
13	MATERIALS HANDLING EQUIPMENT		34,933		34,933		
14	MATERIALS HANDLING VEHICLES						
15	BASE MAINTENANCE SUPPORT		9,134		9,134		
16	RUNWAY SNOW REMOVAL AND CLEANING EQUIP		111,820		103,728		- 8,092
17	BASE MAINTENANCE SUPPORT VEHICLES						
	TOTAL, VEHICULAR EQUIPMENT		414,697		414,939		+ 242
	ELECTRONICS AND TELECOMMUNICATIONS EQUIP						
	COMM SECURITY EQUIPMENT(COMSEC)		66,022		66,022		
13	COMSEC EQUIPMENT		885,051		885,051		
14	STRATEGIC MICROELECTRONIC SUPPLY SYSTEM						
15	INTELLIGENCE PROGRAMS		5,809		5,809		
16	INTERNATIONAL INTEL TECH & ARCHITECTURES		5,719		5,719		
17	INTELLIGENCE TRAINING EQUIPMENT		25,844		25,844		
	INTELLIGENCE COMM EQUIP						

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
18	ELECTRONICS PROGRAMS						
19	AIR TRAFFIC CONTROL & LANDING SYS		44,516		40,673		-3,843
20	BATTLE CONTROL SYSTEM—FIXED		2,940		2,940		
21	THEATER AIR CONTROL SYS IMPRO		43,442		43,442		
22	3D EXPEDITIONARY LONG-RANGE RADAR		96,186		96,186		
23	WEATHER OBSERVATION FORECAST		32,376		32,376		
24	STRATEGIC COMMAND AND CONTROL		37,950		38,162		+212
25	CHEYENNE MOUNTAIN COMPLEX		8,258		8,258		
26	MISSION PLANNING SYSTEMS		14,717		14,717		
	INTEGRATED STRAT PLAN & ANALY NETWORK (ISPAN)				4,845		+4,845
	SPECIAL COMM-ELECTRONICS PROJECTS						
27	GENERAL INFORMATION TECHNOLOGY		43,917		74,447		+30,530
28	AF GLOBAL COMMAND & CONTROL SYSTEM		414		414		
30	MOBILITY COMMAND AND CONTROL		10,619		10,619		
31	AIR FORCE PHYSICAL SECURITY SYSTEM		101,896		101,896		
32	COMBAT TRAINING RANGES		222,598		305,600		+83,002
33	COMBAT TRAINING RANGES (AP)		14,730				-14,730
34	MINIMUM ESSENTIAL EMERGENCY COMM N		77,119		74,361		-2,758
35	WIDE AREA SURVEILLANCE (WAS)		38,794		38,794		
36	C3 COUNTERMEASURES		131,238		119,635		-11,603
37	INTEGRATED PERSONNEL AND PAY SYSTEM		15,240		15,240		
38	GCSS-AF FOS		3,959		3,959		
39	DEFENSE ENTERPRISE ACCOUNTING & MGT SYS				3,103		+3,103
40	MAINTENANCE REPAIR & OVERHAUL INITIATIVE		4,387		4,387		
41	THEATER BATTLE MGT C2 SYSTEM		4,052		4,052		
42	AIR & SPACE OPERATIONS CENTER (AOC)		2,224		23,019		+20,795
	AIR FORCE COMMUNICATIONS						
43	BASE INFORMATION TRANSPORT INFRASTR (BITI) WIRED		58,499		58,499		
44	AFNET		65,354		65,354		
45	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)		4,377		4,377		
46	USCENTCOM		18,101		18,101		
47	USSTRATCOM		4,226		4,226		

48	ORGANIZATION AND BASE TACTICAL C-E EQUIPMENT		162,955		157,817		-5,138
49	RADIO EQUIPMENT		14,232		15,732		+1,500
51	BASE COMM INFRASTRUCTURE		200,797		200,797		
	MODIFICATIONS						
52	COMM ELECT MODS		18,607		18,607		
	TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP		2,487,165		2,593,080		+105,915
	OTHER BASE MAINTENANCE AND SUPPORT EQUIP						
	PERSONAL SAFETY AND RESCUE EQUIP						
53	PERSONAL SAFETY AND RESCUE EQUIPMENT		106,449		106,449		
	DEPOT PLANT AND MATERIALS HANDLING EQ						
54	POWER CONDITIONING EQUIPMENT		11,274		11,274		
55	MECHANIZED MATERIAL HANDLING EQUIP		8,594		8,594		
	BASE SUPPORT EQUIPMENT						
56	BASE PROCURED EQUIPMENT		1		6,000		+5,999
57	ENGINEERING AND EOD EQUIPMENT		32,139		32,139		
58	MOBILITY EQUIPMENT		63,814		63,814		
59	FUELS SUPPORT EQUIPMENT (FSE)		17,928		17,928		
60	BASE MAINTENANCE AND SUPPORT EQUIPMENT		48,534		39,067		-9,467
	SPECIAL SUPPORT PROJECTS						
62	DARP RC135		27,359		27,359		
63	DCGS-AF		261,070		261,070		
65	SPECIAL UPDATE PROGRAM		777,652		933,652		+156,000
	TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP		1,354,814		1,507,346		+152,532
	SPARE AND REPAIR PARTS						
66	SPARES AND REPAIR PARTS (CYBER)		978		978		
67	SPARES AND REPAIR PARTS		9,575		9,575		
999	CLASSIFIED PROGRAMS		20,983,908		21,841,508		+857,600
	TOTAL, OTHER PROCUREMENT, AIR FORCE		25,251,137		26,367,426		+1,116,289

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
3	CAP VEHICLES	1,066	1,800	+ 734
	Program increase: Civil Air Patrol			+ 734
6	SECURITY AND TACTICAL VEHICLES	488	6,088	+ 5,600
	Program increase: HMMWV modernization program			+ 5,600
7	SPECIAL PURPOSE VEHICLES	75,694	77,694	+ 2,000
	Program increase: Special purpose vehicles			+ 2,000
11	BASE MAINTENANCE SUPPORT VEHICLES	111,820	103,728	- 8,092
	Base vehicle replacement funding carry over			- 8,092
18	AIR TRAFFIC CONTROL & LANDING SYS	44,516	40,673	- 3,843
	Deployable Instrument Landing System (D-ILS) contractor services and support early to need			- 1,471
	Deployable Radar Approach Control (D-RAPCON) contractor services early to need			- 2,372
23	STRATEGIC COMMAND AND CONTROL	37,950	38,162	+ 212
	Transfer from RDTE,AF line 317			+ 212
26	INTEGRATED STRAT PLAN & ANALY NETWORK (ISPAN)		4,845	+ 4,845
	Transfer from RDTE,AF line 317			+ 4,845
27	GENERAL INFORMATION TECHNOLOGY	43,917	74,447	+ 30,530
	Program increase: INDOPACOM Mission Partner Environment			+ 30,530
32	COMBAT TRAINING RANGES	222,598	305,600	+ 83,002
	ARTS-V1 full funding			+ 14,730
	ARTS-V2 early to need			- 32,488
	Program increase: P6CTS (TGT II) ground system			+ 2,460
	Program increase: AESA radar characterization for test infrastructure			+ 23,000
	Program increase: C-band and S-band radar emulator upgrade for test infrastructure			+ 75,300
33	COMBAT TRAINING RANGES (AP)	14,730		- 14,730
	Unjustified request			- 14,730
34	MINIMUM ESSENTIAL EMERGENCY COMM N	77,119	74,361	- 2,758
	GASNI1 fixed revised budget estimate			- 800
	Installation travel early to need			- 1,958
36	C3 COUNTERMEASURES	131,238	119,635	- 11,603
	Air Force Cyber Defense insufficient budget justification			- 11,603
39	DEFENSE ENTERPRISE ACCOUNTING & MGT SYS		3,103	+ 3,103
	Transfer from RDTE,AF line 319			+ 3,103
42	AIR AND SPACE OPERATIONS CENTER [AOC]	2,224	23,019	+ 20,795
	Transfer from RDTE,AF line 318			+ 20,795
48	TACTICAL C-E EQUIPMENT	162,955	157,817	- 5,138
	Advanced Communications Systems excess growth			- 5,138
49	RADIO EQUIPMENT	14,232	15,732	+ 1,500
	Program increase: Land mobile radios			+ 1,500
56	BASE PROCURED EQUIPMENT	1	6,000	+ 5,999
	Programming error			- 1
	Program increase: Civil engineering survey equipment			+ 6,000
60	BASE MAINTENANCE AND SUPPORT EQUIPMENT	48,534	39,067	- 9,467
	Trailers early to need			- 9,467
65	SPECIAL UPDATE PROGRAM	777,652	933,652	+ 156,000
	Classified adjustment			+ 156,000
999	CLASSIFIED PROGRAMS	20,983,908	21,841,508	+ 857,600
	Classified adjustment			+ 857,600

Improving Financial Stewardship and Transparency.—The Committee is concerned by the lack of transparency and shifting priorities within the Other Procurement, Air Force appropriation. This is evident in the primary use of the P-40a budget exhibit for aggre-

gated items, and the significant amount of funding realigned in the fiscal year 2021 omnibus reprogramming. While the sole use of P-40a budget exhibit is allowed by the Department of Defense Financial Management Regulations, it does not provide all of the pertinent information needed by the Committees on Appropriations of the House of Representatives and the Senate to provide adequate financial oversight of this appropriation. The Committee also notes that frequently funding requests categorized as urgent needs are used as funding sources for more pressing requirements. Therefore, the Committee directs the Assistant Secretary of the Air Force (Financial Management and Comptroller) to provide the P-5, P-5a, P-21, and P-40 budget exhibits for unclassified programs in budget activities three and four, including such information for fiscal years 2021 and 2022, to the Committee with the fiscal year 2023 President's budget request.

Energy Efficient Small Shelter Systems.—The Committee encourages the Secretary of the Air Force to prioritize funding for energy efficient supplemental insulation systems and solar shades. These products will increase the field life of existing small shelter systems while reducing energy requirements.

PROCUREMENT, SPACE FORCE

Budget estimate, 2022	\$2,766,854,000
Committee recommendation	2,728,549,000

The Committee recommends an appropriation of \$2,728,549,000. This is \$38,305,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
PROCUREMENT, SPACE FORCE							
	SPACE PROGRAMS						
2	AF SATELLITE COMM SYSTEM		43,655		39,655		-4,000
3	COUNTERSPACE SYSTEMS		64,804		64,804		
4	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS		39,444		36,544		-2,900
5	GENERAL INFORMATION TECH—SPACE		3,316		3,316		
6	GPSIII FOLLOW ON	2	601,418	2	592,918		-8,500
7	GPS III SPACE SEGMENT		84,452		82,452		-2,000
8	GLOBAL POSITIONING (SPACE)		2,274		2,274		
9	HERITAGE TRANSITION		13,529		13,529		
10	SPACEBORNE EQUIP (COMSEC)		26,245		46,945		+20,700
11	MILSATCOM		24,333		24,333		
12	SBIR HIGH (SPACE)		154,526		154,526		
13	SPECIAL SPACE ACTIVITIES		142,188		110,483		-31,705
14	MOBILE USER OBJECTIVE SYSTEM		45,371		45,371		
15	NATIONAL SECURITY SPACE LAUNCH	5	1,337,347	5	1,307,447		-29,900
16	NUDET DETECTION SYSTEM		6,690		6,690		
17	PTES HUB		7,406		7,406		
18	ROCKET SYSTEMS LAUNCH PROGRAM		10,429		30,429		+20,000
20	SPACE MODS		64,371		64,371		
21	SPACELEFT RANGE SYSTEM SPACE		93,774		93,774		
22	SPARES AND REPAIR PARTS		1,282		1,282		
	TOTAL, PROCUREMENT, SPACE FORCE		2,766,854		2,728,549		-38,305

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
2	AF Satellite Comm System	43,655	39,655	- 4,000
	Unjustified cost growth			- 4,000
4	Family of Beyond Line-of-Sight Terminals	39,444	36,544	- 2,900
	Unjustified support services cost growth			- 2,900
6	GPSIII Follow On	601,418	592,918	- 8,500
	Unjustified cost growth			- 8,500
7	GPS III Space Segement	84,452	82,452	- 2,000
	On-orbit incentives ahead of need			- 2,000
10	Spaceborne Equipment (Comsec)	26,245	46,945	+ 20,700
	Unjustified unit cost growth			- 2,000
	Program increase: Space-rated crypto devices			+ 22,700
13	Special Space Activities	142,188	110,483	- 31,705
	Classified adjustment			- 31,705
15	National Security Space Launch	1,337,347	1,307,447	- 29,900
	Unjustified request—fleetwide surveillance			- 16,200
	Unjustified request—manifest flexibility			- 13,700
18	Rocket Systems Launch Program	10,429	30,429	+ 20,000
	Program increase: Small launch services			+ 20,000

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.

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 costs—in some cases near commercial pricing—with the benefit of robust mission assurance, something vitally important for national security launches.

The Committee remains concerned, however, about continued moves by some Department of Defense and Intelligence Community agencies to procure launches outside of the space launch enterprise through direct commercial contracts or delivery on orbit contracts. The Committee notes that price and schedule optimization for individual programs is likely to have suboptimal results for the government as a whole, to include Phase 2 follow-on contracts. 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 mission types. Removing missions from the Phase 2 contract to pursue commercial or delivery on orbit launches will result in increasing costs for the remaining missions and negatively impact future phases of NSSL.

The Committee does not consider the failure to properly budget for NSSL launches an adequate rationale to seek launches outside of the space launch enterprise. Therefore, the Committee directs the Secretary of Defense and the Director of National Intelligence to utilize the Space Force launch enterprise for NSSL class missions unless they certify to the congressional defense and intelligence committees that commercial launch or delivery on orbit procurement for a designated mission is in the national security interest of the government and outlines the rationale for such a determination.

PROCUREMENT, DEFENSE-WIDE

Budget estimate, 2022	\$5,548,212,000
Committee recommendation	5,898,393,000

The Committee recommends an appropriation of \$5,898,393,000. This is \$350,181,000 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.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
	PROCUREMENT, DEFENSE-WIDE						
	MAJOR EQUIPMENT						
	MAJOR EQUIPMENT, DCMA						
	MAJOR EQUIPMENT, DCSA						
2	MAJOR EQUIPMENT		3,014		3,014		
	MAJOR EQUIPMENT, DHRA						
4	PERSONNEL ADMINISTRATION		4,042		4,042		
	MAJOR EQUIPMENT, DISA						
	INFORMATION SYSTEMS SECURITY						
10	TELEPORT PROGRAM		18,923		18,923		
11	JOINT FORCES HEADQUARTERS—DODIN		34,908		34,908		
12	ITEMS LESS THAN \$5M		1,968		1,968		
13	DEFENSE INFORMATION SYSTEMS NETWORK		42,270		42,270		
14	WHITE HOUSE COMMUNICATION AGENCY		18,025		18,025		
15	SENIOR LEADERSHIP ENTERPRISE		44,522		44,522		
16	JOINT REGIONAL SECURITY STACKS (JRSS)		54,592		54,592		
17	JOINT SERVICE PROVIDER		62,657		62,657		
18	FOURTH ESTATE NETWORK OPTIMIZATION (4ENO)		102,039		102,039		
19	MAJOR EQUIPMENT, DLA		80,645		80,645		
21	MAJOR EQUIPMENT, DMACT		530,896		530,896		
22	MAJOR EQUIPMENT		8,498		8,498		
	MAJOR EQUIPMENT, DODEA						
23	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS		2,963		2,963		
	MAJOR EQUIPMENT, DPAA						
24	MAJOR EQUIPMENT, DPAA	10	494	10	494		
	MAJOR EQUIPMENT, DSS						
	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY						
26	VEHICLES		118		118		

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
27	OTHER MAJOR EQUIPMENT		12,681		12,681		
	MAJOR EQUIPMENT, MDA						
29	THAAD SYSTEM	18	251,543		380,722	+ 14	+ 129,179
30	GROUND BASED MIDCOURSE			32			
31	AEGIS BMD		334,621		334,621		
32	AEGIS BMD (AP)		17,493		17,493		
33	BMDs ANTPY-2 RADARS		2,738		2,738		
34	AEGIS BMD SM-3 BLOCK IIA		295,322	16	488,022	+ 8	+ 192,700
35	ISRAELI PROGRAMS	8	62,000		62,000		
36	SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD)		30,000		30,000		
37	DEFENSE OF GUAM PROCUREMENT		40,000		80,000		+ 40,000
38	AEGIS ASHORE PHASE III		25,866		25,866		
39	IRON DOME SYSTEM		108,000		108,000		
40	AEGIS BMD HARDWARE AND SOFTWARE		81,791		81,791		
	MAJOR EQUIPMENT, NSA				315		
46	INFORMATION SYSTEMS SECURITY PROGRAM (ISSP)		315				
	MAJOR EQUIPMENT, OSD				31,420		
47	MAJOR EQUIPMENT, OSD		31,420		31,420		
48	JOINT CAPABILITY TECH DEMONSTRATION (JCTD)		74,060		86,060		+ 12,000
	MAJOR EQUIPMENT, TJS				7,830		
49	MAJOR EQUIPMENT, TJS		7,830		7,830		
	MAJOR EQUIPMENT, WHS						
	TOTAL, MAJOR EQUIPMENT		2,386,254		2,760,133		+ 373,879
	SPECIAL OPERATIONS COMMAND						
	AVIATION PROGRAMS						
52	ARMED OVERWATCH/TARGETING	6	170,000	6	149,000		- 21,000
53	MANNED ISR		2,500		2,500		
54	MC-12		2,250		2,250		
55	MH-60 BLACKHAWK		29,900		29,900		
56	SOF ROTARY WING UPGRADES AND SUSTAINMENT		202,278		202,278		

57	Unmanned ISR	55,951	55,951	55,951	55,951	.....	.....	.....	.....
58	NON-STANDARD AVIATION	3,282	3,282	3,282	3,282	.....	.....	.....	.....
59	SOF U-28	4,176	4,176	4,176	4,176	.....	.....	.....	.....
60	MH-47 CHINOOK	130,485	130,485	130,485	130,485	.....	.....	.....	.....
61	CV-22 SOF MODIFICATION	41,762	46,572	46,572	46,572	.....	.....	.....	+ 4,810
62	MQ-9 UNMANNED AERIAL VEHICLE	8,020	8,020	8,020	8,020	.....	.....	.....	.....
63	PRECISION STRIKE PACKAGE	165,224	165,224	165,224	165,224	.....	.....	.....	.....
64	AC/MC-130J	205,216	205,216	205,216	205,216	.....	.....	.....	.....
65	C-130 MODIFICATIONS	13,373	13,373	13,373	13,373	.....	.....	.....	.....
66	SHIPBUILDING .....	.....	.....	.....	.....	.....	.....	.....	.....
66	UNDERWATER SYSTEMS	17,227	23,327	23,327	23,327	.....	.....	.....	+ 6,100
67	AMMUNITION PROGRAMS .....	.....	.....	.....	.....	.....	.....	.....	.....
67	SOF ORDNANCE ITEMS UNDER \$5,000,000	168,072	168,072	168,072	168,072	.....	.....	.....	.....
68	OTHER PROCUREMENT PROGRAMS .....	.....	.....	.....	.....	.....	.....	.....	.....
68	SOF INTELLIGENCE SYSTEMS	131,889	131,889	131,889	131,889	.....	.....	.....	.....
69	DCCS-SOF	5,991	5,991	5,991	5,991	.....	.....	.....	.....
70	OTHER ITEMS UNDER \$5,000,000	62,722	62,722	62,722	62,722	.....	.....	.....	.....
71	SOF COMBATANT CRAFT SYSTEMS	17,080	17,080	17,080	17,080	.....	.....	.....	.....
72	SPECIAL PROGRAMS	44,351	75,531	75,531	75,531	.....	.....	.....	+ 31,180
73	TACTICAL VEHICLES	26,806	26,806	26,806	26,806	.....	.....	.....	.....
74	WARRIOR SYSTEMS UNDER \$5,000,000	284,548	284,548	284,548	284,548	.....	.....	.....	.....
75	COMBAT MISSION REQUIREMENTS	27,513	27,513	27,513	27,513	.....	.....	.....	.....
77	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	20,252	20,252	20,252	20,252	.....	.....	.....	.....
78	SOF OPERATIONAL ENHANCEMENTS	328,569	350,569	350,569	350,569	.....	.....	.....	+ 22,000
	TOTAL, SPECIAL OPERATIONS COMMAND	2,169,437	2,212,527	2,212,527	2,212,527	.....	.....	.....	+ 43,090
	CHEMICAL/BIOLOGICAL DEFENSE .....	.....	.....	.....	.....	.....	.....	.....	.....
79	CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS	167,918	167,630	167,630	167,630	.....	.....	.....	- 288
80	CB PROTECTION AND HAZARD MITIGATION	189,265	181,665	181,665	181,665	.....	.....	.....	- 7,600
	TOTAL, CHEMICAL/BIOLOGICAL DEFENSE	357,183	349,295	349,295	349,295	.....	.....	.....	- 7,888
9999999999	CLASSIFIED PROGRAMS	635,338	576,438	576,438	576,438	.....	.....	.....	- 58,900
	TOTAL, PROCUREMENT, DEFENSE-WIDE	5,548,212	5,898,393	5,898,393	5,898,393	.....	.....	.....	+ 350,181

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
29	THAAD	251,543	380,722	+ 129,179
	Program increase: Fourteen THAAD interceptors			+ 129,179
34	SM-3 IIAs	295,322	488,022	+ 192,700
	Program increase: Eight SM-3 IIA interceptors			+ 192,700
37	Defense of Guam Procurement	40,000	80,000	+ 40,000
	Program increase: Guam Defense System acceleration			+ 40,000
48	Joint Capability Tech Demonstration (JCTD)	74,060	86,060	+ 12,000
	Transfer from RDDW, line 126, only to fully fund Tranche 1 launch			+ 12,000
52	Armed Overwatch/Targeting	170,000	149,000	- 21,000
	Prior year funding			- 21,000
61	CV-22 Modification	41,762	46,572	+ 4,810
	ICS growth			- 1,000
	Program increase: CV-22 nacelle enhancements			+ 5,810
66	Underwater Systems	17,227	23,327	+ 6,100
	Program increase: Modernized Forward-look Sonar			+ 900
	Program increase: Combat diving advanced equipment acceleration			+ 5,200
72	Special Programs	44,351	75,531	+ 31,180
	Program increase: Medium fixed wing mobility mods ..			+ 31,180
78	Operational Enhancements	328,569	350,569	+ 22,000
	Program growth			- 6,000
	Program increase: Fused Panoramic Night Vision Goggles (F-PANO) acceleration			+ 28,000
79	Chemical Biological Situational Awareness	167,918	167,630	- 288
	Unit cost growth—DRS			- 188
	Program Support growth—SCIRP			- 100
80	CB Protection & Hazard Mitigation	189,265	181,665	- 7,600
	UIPE FOS GP IOC delay—TATPE			- 11,500
	UIPE FOS Air support cost growth			- 4,500
	JSAM SA cost growth			- 600
	JSAM RW schedule delays			- 1,000
	Program increase: Smallpox antiviral stockpile			+ 10,000
999	Classified Programs	635,338	576,438	- 58,900
	Classified adjustment			- 58,900

DEFENSE PRODUCTION ACT PURCHASES

Budget estimate, 2022	\$340,927,000
Committee recommendation	302,927,000

The Committee recommends an appropriation of \$302,927,000. This is \$38,000,000 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:

[Dollars in thousands]

Line	Item	Qty.	2022 budget estimate	Qty.	Committee recommendation	Change from	
						Qty.	Budget estimate
1	DEFENSE PRODUCTION ACT PURCHASES .....	.....	340,927	.....	302,927	.....	— 38,000
	TOTAL, DEFENSE PRODUCTION ACT PURCHASES .....	.....	340,927	.....	302,927	.....	— 38,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Defense Production Act Purchases	340,927	302,927	- 38,000
	Transfer hypersonics industrial base to RDDW, line 36 for hypersonics engine development			- 38,000

NATIONAL GUARD AND RESERVE EQUIPMENT

Budget estimate, 2022

Committee recommendation 1,450,000,000

The Committee recommends an appropriation of \$1,450,000,000. This is \$1,450,000,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
NATIONAL GUARD AND RESERVE EQUIPMENT ACCOUNT			
RESERVE EQUIPMENT:			
ARMY RESERVE:			
Program increase: Miscellaneous equipment		232,000	+ 232,000
NAVY RESERVE:			
Program increase: Miscellaneous equipment		87,000	+ 87,000
MARINE CORPS RESERVE:			
Program increase: Miscellaneous equipment		29,000	+ 29,000
AIR FORCE RESERVE:			
Program increase: Miscellaneous equipment		232,000	+ 232,000
TOTAL, RESERVE EQUIPMENT		580,000	+ 580,000
NATIONAL GUARD EQUIPMENT			
ARMY NATIONAL GUARD			
Program increase: Miscellaneous equipment		435,000	+ 435,000
AIR NATIONAL GUARD			
Program increase: Miscellaneous equipment		435,000	+ 435,000
TOTAL, NATIONAL GUARD EQUIPMENT		870,000	+ 870,000
TOTAL, NATIONAL GUARD AND RESERVE EQUIPMENT		1,450,000	+ 1,450,000

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: land surveying systems;

cybersecurity for critical base infrastructure; aviation status dashboard; solar mobile power systems; controlled humidity preservation; KC-135 aircraft forward area refueling/defueling stations; crashworthy, ballistically tolerant auxiliary fuel systems; containerized ice making systems; pilot physiological monitoring systems; upgraded commercial-off-the-shelf ground mapping for C-130s; laser ablation system; hospital pods; UH-60 internal auxiliary fuel tanks; vehicle-mounted and man-portable radiological nuclear detection systems; and modular small arms ranges and small arms training simulators.

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 basic research, applied research, advanced technology development, advanced component development and prototypes, system development and demonstration, operational systems development; as well as software and digital technology pilot programs.

The President's fiscal year 2022 budget requests a total of \$111,964,188,000 for research, development, test and evaluation appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends research, development, test and evaluation appropriations totaling \$116,152,543,000 for fiscal year 2022. This is \$4,188,355,000 above the budget estimate.

Committee recommended research, development, test and evaluation appropriations for fiscal year 2022 are summarized below:

SUMMARY OF RESEARCH, DEVELOPMENT, TEST AND EVALUATION APPROPRIATIONS

[In thousands of dollars]

Account	2022 budget estimate	Committee recommendation	Change from budget estimate
Research, Development, Test and Evaluation:			
Research, Development, Test and Evaluation, Army	12,799,645	13,467,949	+ 668,304
Research, Development, Test and Evaluation, Navy	22,639,362	21,546,521	- 1,092,841
Research, Development, Test and Evaluation, Air Force	39,184,328	40,098,662	+ 914,334
Research, Development, Test and Evaluation, Space Force	11,266,387	11,642,581	+ 376,194
Research, Development, Test and Evaluation, Defense-Wide	25,857,875	29,120,239	+ 3,262,364
Operational Test and Evaluation, Defense	216,591	276,591	+ 60,000
Total	111,964,188	116,152,543	+ 4,188,355

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

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

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

FUNDING INCREASES

The funding increases outlined in the tables for each appropriations 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

Reporting on Middle-Tier Acquisition and Rapid Prototyping Programs.—The Committee remains supportive of efforts to deliver capability to the warfighter at an accelerated pace, such as through the use of acquisition authorities and contracting strategies provided in National Defense Authorization Acts for the rapid development, rapid prototyping, rapid acquisition, accelerated acquisition, and middle-tier acquisition (“section 804”) of warfighter capabilities. As stated in the Joint Explanatory Statement accompanying the Department of Defense Appropriations Act, 2021 (Public Law 116-260), 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 defense acquisition category I programs.

The Committee notes the Department of Defense’s continued use of such acquisition authorities, and remains concerned by the lack of standard acquisition information provided for such programs with the budget request, to include independent cost estimates, technology and manufacturing readiness assessments, and test and evaluation master plans. Further, the Committee remains concerned that the services’ growing trend toward procuring de facto

end-items via prototyping acquisitions may limit the services' ability to successfully manage their acquisition programs in the long-term by eliminating the complete understanding of full program costs up-front; unnecessarily narrowing the industrial base early in the acquisition process; and eliminating opportunities for future innovation by reducing competition 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 Committee notes that the Department did not, with submission of the fiscal year 2022 President's budget request, comply with direction contained in section 8058 of the Department of Defense Appropriations Act, 2021 (Public Law 116-260), which was intended to provide more insight into the use of legislative authorities and research, development, test and evaluation funds for these purposes. The Committee again includes this direction for fiscal year 2022.

The Under Secretaries of Defense (Research and Engineering) and (Acquisition and Sustainment), in coordination with 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 2023 President's budget request a complete list of approved acquisition programs, and programs pending approval in fiscal year 2023, 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 2023 President's budget request, including their test strategies; finally, 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 2022 President's budget, any variations therefrom should be included with the fiscal year 2023 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.

Budgeting for Sustainment Costs of Prototypes.—The Committee notes that as of September 2020, the military services and U.S. Special Operations Command are developing 74 programs under section 804 of the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114-92), commonly referred to as “middle-tier acquisition programs.” In addition, the services are rapidly developing prototypes and capabilities utilizing other legislative authorities and various funding mechanisms. The Committee notes that several programs initiated under these authorities are now

being fielded to either dedicated test or operational forces for prototyping, experimentation, and demonstrations, to include Large Unmanned Surface Vessels by the Navy and the Lower Tier Air and Missile Defense radar for Patriot batteries by the Army.

The Committee understands that the Department of Defense does not have an overarching policy in place regarding the budgeting for operation and sustainment costs for these types of programs. This includes guidance on using contractor versus organic support, and budgeting sustainment costs using the proper color of appropriations. The Committee believes that the Under Secretary of Defense (Comptroller) should prioritize the establishment of such policy guidance to inform the formulation and enactment of the fiscal year 2023 President's budget request.

Other Transaction Agreements.—Pursuant to section 873 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Public Law 115–232), as amended by section 819 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116–92) and the Joint Explanatory Statement accompanying the Department of Defense and Labor, Health and Human Services, and Education Appropriations Act for 2019 (Public Law 115–245), the Department of Defense is required to meet annual and quarterly reporting requirements on the use of Other Transaction Authority [OTA]. The Committee notes that the data submitted is incomplete and results in manual data calls within the Department because the existing Federal Procurement Data System-Next Generation [FPDS-NG] does not capture all of the required data elements. This issue is exacerbated when analyzing OTAs awarded through consortiums and provides limited visibility on the industry partners that are executing the work on behalf of the consortium.

The Department of Defense Inspector General report “Audit of Other Transactions Awarded Through Consortiums” issued on April 21, 2021, confirms the Committee's concerns noting that contractor personnel did not “properly track OTAs awarded through consortiums and did not have an accurate count of OTAs and associated dollar values.” This lack of fidelity poses challenges for oversight, both with the congressional defense committees and internally to the Department. Further, the Committee notes that the Department's fiscal year 2020 report to the congressional defense committees provides data that shows the Army comprises 82 percent of all OTAs compared to just 4 percent for the Navy and 8 percent for the Air Force. The lack of fidelity within the Department on execution of OTAs and the wide discrepancy in utilization rates continues to raise concerns on the efficacy of existing guidance with the Department in normalizing the use of OTAs going forward.

Therefore, the Committee directs the Under Secretary of Defense for Acquisition and Sustainment to continue the previously established reporting requirements while working with the congressional defense committees to establish improved procedures for execution of OTAs across the Department and plans to enhance the data collection process. Not later than 60 days following enactment of this Act, the Under Secretary of Defense for Acquisition and Sustainment shall brief the congressional defense committees on courses of action to improve the data collection process across the

Department, to include alternatives to FPDS-NG or modifications to the system.

Software and Digital Technology Pilot Programs.—The fiscal year 2022 President's budget request includes five new programs for inclusion in the Software and Digital Technology Pilot Programs funded in Budget Activity 08 [BA 08] within the research, development, test and evaluation accounts, established in fiscal year 2021. The Committee acknowledges the Department's rationale regarding the incremental technical challenges posed by modern software development practices, including implementing technical fixes to existing code, addressing cyber vulnerabilities, and integrating incrementally developed new capabilities.

However, the Committee maintains its position that objective quantitative and qualitative evidence is required to evaluate the ongoing approved pilot programs prior to considering an expansion of programs funded under BA 08. Reporting requirements outlined in the Joint Explanatory Statement accompanying the Department of Defense Appropriations Act, 2021 (Public Law 116-260) have not been submitted to the congressional defense committees on a timely basis, and have not yet provided a baseline for analyzing the effectiveness of the pilot programs compared to traditional appropriation practices. Therefore, the Committee recommends maintaining the Software and Digital Technology Pilot Programs in their current form. The Committee recommendation transfers funds for programs requested as BA 08 new starts in fiscal year 2022 to their historical appropriation accounts for execution, as detailed in the appropriate tables of Committee Recommended Adjustments.

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 manage, budget for, and execute these programs. The Committee encourages the Secretary of Defense to execute the recommended pilot programs through fiscal year 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.

As detailed in the reporting requirements outlined in the Joint Explanatory Statement accompanying the Department of Defense Appropriations Act, 2021 (Public Law 116-260), the Secretary of Defense shall submit quarterly reports to the congressional defense committees detailing the Department's assessment for each of the programs recommended in the general provision. This report shall include, at a minimum: quantitative and qualitative metrics; an assessment of eight similar programs, with representations from each service, funded through traditional appropriation legislation for comparison; an assessment of each pilot program against their own historical performance when funded through traditional appropriation legislation; as well as an assessment of prior year BA 08 execution by activity compared to planned execution in the respective budget request.

Transition of programs from the Strategic Capabilities Office.—The fiscal year 2022 President's budget request includes \$767,969,000 in Research, Development, Test and Evaluation, Defense-Wide, for programs managed and executed by the Strategic

Capabilities Office [SCO]. The Committee recommends fully funding this request. However, the Committee remains 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 despite previous congressional direction. Further, the Committee notes that SCO and the services frequently use different program names when describing the same effort which 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 2023 President's budget request, a matrix identifying SCO programs with their SCO and respective transition partners' detailed program schedules, and Future Years Defense Program profiles by fiscal year, appropriations account, and program element.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

Budget estimate, 2022 \$12,799,645,000
 Committee recommendation 13,467,949,000

The Committee recommends an appropriation of \$13,467,949,000. This is \$668,304,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY			
	BASIC RESEARCH			
1	DEFENSE RESEARCH SCIENCES	297,241	392,241	+ 95,000
2	UNIVERSITY RESEARCH INITIATIVES	66,981	166,981	+ 100,000
3	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	94,003	103,003	+ 9,000
4	CYBER COLLABORATIVE RESEARCH ALLIANCE	5,067	5,067	.....
5	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASIC RESEARCH	10,183	14,183	+ 4,000
	TOTAL, BASIC RESEARCH	473,475	681,475	+ 208,000
	APPLIED RESEARCH			
6	BIOMEDICAL TECHNOLOGY	11,925	11,925	.....
7	COUNTER IMPROVISED-THREAT ADVANCED STUDIES	1,976	1,976	.....
8	LETHALITY TECHNOLOGY	64,126	82,126	+ 18,000
9	ARMY APPLIED RESEARCH	28,654	28,654	.....
10	SOLDIER LETHALITY TECHNOLOGY	105,168	169,668	+ 64,500
11	GROUND TECHNOLOGY	56,400	150,400	+ 94,000
12	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	172,166	210,666	+ 38,500
13	NETWORK C3I TECHNOLOGY	84,606	147,606	+ 63,000
14	LONG RANGE PRECISION FIRES TECHNOLOGY	64,285	77,285	+ 13,000
15	FUTURE VERTICAL LIFT TECHNOLOGY	91,411	123,411	+ 32,000
16	AIR AND MISSILE DEFENSE TECHNOLOGY	19,316	79,216	+ 59,900
17	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNOLOGIES	15,034	15,034	.....
18	ALL DOMAIN CONVERGENCE APPLIED RESEARCH	25,967	25,967	.....
19	C3I APPLIED RESEARCH	12,406	12,406	.....
20	AIR PLATFORM APPLIED RESEARCH	6,597	6,597	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
21	SOLDIER APPLIED RESEARCH	11,064	11,064	.....
22	C3I APPLIED CYBER	12,123	12,123	.....
23	BIOTECHNOLOGY FOR MATERIALS—APPLIED RESEARCH	20,643	20,643	.....
24	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	18,701	18,701	.....
25	MEDICAL TECHNOLOGY	91,720	96,720	+ 5,000
	TOTAL, APPLIED RESEARCH	914,288	1,302,188	+ 387,900
	ADVANCED TECHNOLOGY DEVELOPMENT			
26	MEDICAL ADVANCED TECHNOLOGY	43,804	60,804	+ 17,000
27	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	14,273	14,273	.....
28	ARMY AGILE INNOVATION AND DEMONSTRATION	22,231	22,231	.....
29	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ADVANCED TECHNOLOGIES	909	909	.....
30	ALL DOMAIN CONVERGENCE ADVANCED TECHNOLOGY	17,743	17,743	.....
31	C3I ADVANCED TECHNOLOGY	3,151	3,151	.....
32	AIR PLATFORM ADVANCED TECHNOLOGY	754	754	.....
33	SOLDIER ADVANCED TECHNOLOGY	890	890	.....
34	MEDICAL DEVELOPMENT	26,521	26,521	.....
35	LETHALITY ADVANCED TECHNOLOGY	8,066	8,066	.....
36	ARMY ADVANCED TECHNOLOGY DEVELOPMENT	76,815	76,815	.....
37	SOLDIER LETHALITY ADVANCED TECHNOLOGY	107,966	136,466	+ 28,500
38	GROUND ADVANCED TECHNOLOGY	23,403	150,003	+ 126,600
39	COUNTER IMPROVISED-THREAT SIMULATION	24,747	24,747	.....
40	BIOTECHNOLOGY FOR MATERIALS—ADVANCED RESEARCH	53,736	53,736	.....
41	C3I CYBER ADVANCED DEVELOPMENT	31,426	31,426	.....
42	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	189,123	229,123	+ 40,000
43	NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY	164,951	216,451	+ 51,500
44	NETWORK C3I ADVANCED TECHNOLOGY	155,867	202,867	+ 47,000
45	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	93,909	96,909	+ 3,000
46	FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	179,677	217,677	+ 38,000
47	AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY	48,826	134,826	+ 86,000
48	HUMANITARIAN DEMINING	8,649	8,649	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	1,297,437	1,735,037	+ 437,600
	ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
49	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	11,702	48,702	+ 37,000
50	ARMY SPACE SYSTEMS INTEGRATION	18,755	25,755	+ 7,000
52	LANDMINE WARFARE AND BARRIER—ADV DEV	50,314	46,687	- 3,627
53	TANK AND MEDIUM CALIBER AMMUNITION	79,873	76,463	- 3,410
54	ARMORED SYSTEM MODERNIZATION—ADV DEV	170,590	164,590	- 6,000
55	SOLDIER SUPPORT AND SURVIVABILITY	2,897	2,897	.....
56	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—ADV DEV	113,365	113,365	.....
57	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	18,000	82,820	+ 64,820
58	ENVIRONMENTAL QUALITY TECHNOLOGY—DEM/VAL	11,921	14,921	+ 3,000
59	NATO RESEARCH AND DEVELOPMENT	3,777	3,777	.....
60	AVIATION—ADV DEV	1,125,641	1,153,460	+ 27,819
61	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	7,055	7,444	+ 389
62	MEDICAL SYSTEMS—ADV DEV	22,071	22,071	.....
63	SOLDIER SYSTEMS—ADVANCED DEVELOPMENT	17,459	25,959	+ 8,500
64	ROBOTICS DEVELOPMENT	87,198	58,461	- 28,737
65	EXPANDED MISSION AREA MISSILE (EMAM)	50,674	5,067	- 45,607
67	LOW EARTH ORBIT (LEO) SATELLITE CAPABILITY	19,638	19,638	.....
68	MULTI-DOMAIN SENSING SYSTEM (MDSS) ADV DEV	50,548	50,548	.....
69	TACTICAL INTEL TARGETING ACCESS NODE (TITAN) ADV DEV	28,347	28,347	.....
70	ANALYSIS OF ALTERNATIVES	10,091	10,091	.....
71	SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.4)	926	926	.....
72	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS)	69,697	40,367	- 29,330
73	LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR	327,690	284,153	- 43,537
74	TECHNOLOGY MATURATION INITIATIVES	270,124	162,602	- 107,522
75	MANEUVER—SHORT RANGE AIR DEFENSE (M-SHORAD)	39,376	39,376	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
76	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING	189,483	189,483	.....
77	ASSURED POSITIONING, NAVIGATION AND TIMING (PNT)	96,679	76,471	-20,208
78	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT & PROTOTYPING	194,195	198,195	+4,000
79	COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING	13,379	13,379	.....
80	HYPERSONICS	300,928	310,448	+9,520
81	FUTURE INTERCEPTOR	7,895	7,895	.....
82	COUNTER—SMALL UNMANNED AIRCRAFT SYSTEMS ADVANCED DEVELOPMENT	19,148	19,148	.....
83	UNIFIED NETWORK TRANSPORT	35,409	35,409	.....
84	MOBILE MEDIUM RANGE MISSILE	286,457	286,457	.....
85	INTEGRATED BASE DEFENSE (BUDGET ACTIVITY 4)	2,040	2,040	.....
86	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	52,988	39,988	-13,000
	TOTAL, ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES	3,806,330	3,667,400	-138,930
	SYSTEM DEVELOPMENT & DEMONSTRATION			
89	AIRCRAFT AVIONICS	6,654	6,654	.....
90	ELECTRONIC WARFARE DEVELOPMENT	30,840	30,840	.....
91	INFANTRY SUPPORT WEAPONS	67,873	72,839	+4,966
92	MEDIUM TACTICAL VEHICLES	11,374	11,374	.....
93	JAVELIN	7,094	7,094	.....
94	FAMILY OF HEAVY TACTICAL VEHICLES	31,602	30,077	-1,525
95	AIR TRAFFIC CONTROL	4,405	4,405	.....
96	LIGHT TACTICAL WHEELED VEHICLES	2,055	2,055	.....
97	ARMORED SYSTEMS MODERNIZATION (ASM)—ENG DEV	137,256	124,528	-12,728
98	NIGHT VISION SYSTEMS—ENG DEV	62,690	39,533	-23,157
99	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	1,658	1,658	.....
100	NON-SYSTEM TRAINING DEVICES—ENG DEV	26,540	26,540	.....
101	AIR DEFENSE COMMAND, CONTROL, AND INTELLIGENCE—ENG DEV	59,518	59,518	.....
102	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	22,331	22,331	.....
103	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	8,807	8,807	.....
104	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—ENG/ DEV	7,453	12,453	+5,000
107	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	21,534	19,808	-1,726
108	WEAPONS AND MUNITIONS—ENG DEV	309,778	283,520	-26,258
109	LOGISTICS AND ENGINEER EQUIPMENT—ENG DEV	59,261	59,661	+400
110	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—ENG DEV	20,121	20,121	.....
111	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT—ENG DEV	44,424	44,424	.....
112	LANDMINE WARFARE/BARRIER—ENG DEV	14,137	14,137	.....
113	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE	162,704	158,613	-4,091
114	RADAR DEVELOPMENT	127,919	122,607	-5,312
115	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEB)	17,623	15,979	-1,644
117	SOLDIER SYSTEMS—WARRIOR DEM/VAL	6,454	6,454	.....
118	SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS—EMD	106,354	86,354	-20,000
120	INFORMATION TECHNOLOGY DEVELOPMENT	122,168	129,515	+7,347
121	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A)	76,936	58,736	-18,200
122	ARMORED MULTI-PURPOSE VEHICLE (AMPV)	35,560	35,560	.....
124	JOINT TACTICAL NETWORK CENTER (JTNC)	16,364	16,364	.....
125	JOINT TACTICAL NETWORK (JTN)	28,954	28,954	.....
128	COMMON INFRARED COUNTERMEASURES (CIRCM)	16,630	16,630	.....
130	NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE (NBCRV) SENSOR SUITE	7,618	7,618	.....
131	DEFENSIVE CYBER TOOL DEVELOPMENT	18,892	7,490	-11,402
132	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER)	28,849	28,849	.....
133	CONTRACT WRITING SYSTEM	22,960	20,960	-2,000
135	AIRCRAFT SURVIVABILITY DEVELOPMENT	65,603	57,822	-7,781
136	INDIRECT FIRE PROTECTION CAPABILITY INC 2—BLOCK 1	233,512	162,781	-70,731

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
137	GROUND ROBOTICS	18,241	16,360	- 1,881
138	EMERGING TECHNOLOGY INITIATIVES	254,945	217,303	- 37,642
139	BIOMETRICS ENABLING CAPABILITY (BEC)	4,326	4,326	.....
140	NEXT GENERATION LOAD DEVICE—MEDIUM	15,616	15,397	- 219
141	MEDICAL PRODUCTS AND SUPPORT SYSTEMS DEVELOPMENT	962	3,962	+ 3,000
142	TACTICAL INTEL TARGETING ACCESS NODE (TITAN) EMD	54,972	40,972	- 14,000
143	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	122,175	122,175	.....
144	SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.5)	2,275	2,275	.....
145	MULTI-DOMAIN INTELLIGENCE	9,313	9,313	.....
146	SIO CAPABILITY DEVELOPMENT	22,713	22,713	.....
147	PRECISION STRIKE MISSILE (PRSM)	188,452	188,452	.....
148	HYPERSONICS EMD	111,473	111,473	.....
149	ACCESSIONS INFORMATION ENVIRONMENT (AIE)	18,790	16,790	- 2,000
150	JOINT AIR-TO-GROUND MISSILE (JAGM)	2,134	2,134	.....
151	ARMY INTEGRATED AIR AND MISSILE DEFENSE [AIAMD]	157,873	157,873	.....
152	COUNTER—SMALL UNMANNED AIRCRAFT SYSTEMS SYS DEV & DEMONSTRATION	33,386	33,386	.....
153	MANNED GROUND VEHICLE	225,106	202,371	- 22,735
154	NATIONAL CAPABILITIES INTEGRATION [MIP]	14,454	11,888	- 2,566
155	JOINT LIGHT TACTICAL VEHICLE (JLTV) ENGINEERING AND MANUFACTURING DEVELOPMENT	2,564	2,564	.....
156	AVIATION GROUND SUPPORT EQUIPMENT	1,201	1,201	.....
157	TROJAN—RH12	3,362	3,362	.....
161	ELECTRONIC WARFARE DEVELOPMENT	75,520	72,328	- 3,192
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	3,392,358	3,122,281	- 270,077
	MANAGEMENT SUPPORT			
162	THREAT SIMULATOR DEVELOPMENT	18,439	61,439	+ 43,000
163	TARGET SYSTEMS DEVELOPMENT	17,404	42,404	+ 25,000
164	MAJOR T&E INVESTMENT	68,139	68,139	.....
165	RAND ARROYO CENTER	33,126	26,978	- 6,148
166	ARMY KWAJALEIN ATOLL	240,877	240,877	.....
167	CONCEPTS EXPERIMENTATION PROGRAM	79,710	79,710	.....
169	ARMY TEST RANGES AND FACILITIES	354,227	367,227	+ 13,000
170	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	49,253	54,253	+ 5,000
171	SURVIVABILITY/LETHALITY ANALYSIS	36,389	36,389	.....
172	AIRCRAFT CERTIFICATION	2,489	2,489	.....
173	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	6,689	6,689	.....
174	MATERIEL SYSTEMS ANALYSIS	21,558	21,558	.....
175	EXPLOITATION OF FOREIGN ITEMS	13,631	13,631	.....
176	SUPPORT OF OPERATIONAL TESTING	55,122	55,122	.....
177	ARMY EVALUATION CENTER	65,854	65,854	.....
178	ARMY MODELING & SIM X-CMD COLLABORATION & INTEG	2,633	2,633	.....
179	PROGRAMWIDE ACTIVITIES	96,589	96,589	.....
180	TECHNICAL INFORMATION ACTIVITIES	26,808	26,808	.....
181	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	43,042	43,042	.....
182	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	1,789	1,789	.....
183	ARMY DIRECT REPORT HEADQUARTERS—R&D—MHA	52,108	49,108	- 3,000
185	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE	80,952	80,952	.....
186	COUNTERINTEL AND HUMAN INTEL MODERNIZATION	5,363	5,363	.....
187	MEDICAL PROGRAM-WIDE ACTIVITIES	39,041	39,041	.....
188	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	5,466	5,466	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,416,698	1,493,550	+ 76,852
	OPERATIONAL SYSTEMS DEVELOPMENT			
190	MLRS PRODUCT IMPROVEMENT PROGRAM	12,314	12,314	.....
191	ANTI-TAMPER TECHNOLOGY SUPPORT	8,868	8,868	.....
192	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS	22,828	34,828	+ 12,000
194	BLACKHAWK PRODUCT IMPROVEMENT PROGRAM	4,773	3,260	- 1,513
195	CHINOOK PRODUCT IMPROVEMENT PROGRAM	52,372	67,872	+ 15,500
196	IMPROVED TURBINE ENGINE PROGRAM	275,024	275,024	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
197	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT	12,417	12,417	.....
198	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	4,594	4,594	.....
199	APACHE FUTURE DEVELOPMENT	10,067	10,067	.....
200	AN/TPQ-53 COUNTERFIRE TARGET ACQUISITION RADAR SYSTEM	56,681	47,752	- 8,929
201	INTEL CYBER DEVELOPMENT	3,611	3,611	.....
202	ARMY OPERATIONAL SYSTEMS DEVELOPMENT	28,029	28,029	.....
203	ELECTRONIC WARFARE DEVELOPMENT	5,673	5,673	.....
204	FAMILY OF BIOMETRICS	1,178	1,178	.....
205	PATRIOT PRODUCT IMPROVEMENT	125,932	125,932	.....
206	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM (JADOCs)	25,547	25,547	.....
207	COMBAT VEHICLE IMPROVEMENT PROGRAMS	211,523	210,130	- 1,393
208	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	213,281	175,155	- 38,126
210	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	132	132	.....
211	DIGITIZATION	3,936	3,936	.....
212	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM	127	127	.....
213	OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	10,265	10,265	.....
214	ENVIRONMENTAL QUALITY TECHNOLOGY—OPERATIONAL SYSTEM DEV	262	262	.....
215	LOWER TIER AIR AND MISSILE DEFENSE [AMD] SYSTEM	182	.....	- 182
216	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM [GMLRS]	63,937	60,733	- 3,204
217	JOINT TACTICAL GROUND SYSTEM	13,379	13,379	.....
219	SECURITY AND INTELLIGENCE ACTIVITIES	24,531	24,531	.....
220	INFORMATION SYSTEMS SECURITY PROGRAM	15,720	15,720	.....
221	GLOBAL COMBAT SUPPORT SYSTEM	52,739	47,297	- 5,442
222	SATCOM GROUND ENVIRONMENT (SPACE)	15,247	15,247	.....
226	INTEGRATED BROADCAST SERVICE (IBS)	5,430	5,430	.....
227	TACTICAL UNMANNED AERIAL VEHICLES	8,410	8,410	.....
228	AIRBORNE RECONNAISSANCE SYSTEMS	24,460	24,460	.....
233	BIOMETRICS ENABLED INTELLIGENCE	2,066	2,066	.....
234	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	61,720	78,720	+ 17,000
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,377,255	1,362,966	- 14,289
237	DEFENSIVE CYBER—SOFTWARE PROTOTYPE DEVELOPMENT	118,811	100,059	- 18,752
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	118,811	100,059	- 18,752
999	CLASSIFIED PROGRAMS	2,993	2,993	.....
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY	12,799,645	13,467,949	+ 668,304

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Defense Research Sciences	297,241	392,241	+ 95,000
	Program increase: Cell-free expression for biomanufacturing .....	.....	.....	+ 10,000
	Program increase: Unmanned aerial systems hybrid propulsion .....	.....	.....	+ 5,000
	Program increase: Digital thread for advanced manufacturing .....	.....	.....	+ 5,000
	Program increase: Basic research .....	.....	.....	+ 75,000
2	University Research Initiatives	66,981	166,981	+ 100,000
	Program increase: Defense university research instrumentation program .....	.....	.....	+ 100,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
3	University and Industry Research Centers	94,003	103,003	+ 9,000
	Program increase: Materials in extreme dynamic environments			+ 5,000
	Program increase: Hypervelocity testing			+ 3,000
	Program increase: Soldier protection materials			+ 1,000
5	Artificial Intelligence and Machine Learning Basic Research	10,183	14,183	+ 4,000
	Program increase: Extreme events in structurally evolving materials			+ 4,000
8	Lethality Technology	64,126	82,126	+ 18,000
	Program increase: Hybrid additive manufacturing for advanced lethality			+ 5,000
	Program increase: Materials processing manufacturing technology			+ 10,000
	Program increase: Universal nanocrystalline alloys			+ 3,000
10	Soldier Lethality Technology	105,168	169,668	+ 64,500
	Program increase: Advanced silicon anode material for batteries			+ 10,000
	Program increase: Advanced textiles and shelters			+ 6,000
	Program increase: Academic accelerator program			+ 15,000
	Program increase: HEROES program			+ 4,500
	Program increase: Military footwear research			+ 3,000
	Program increase: Pathfinder translational research advanced capability acceleration			+ 8,000
	Program increase: Pathfinder air assault			+ 10,000
	Program increase: Pathfinder airborne			+ 8,000
11	Ground Technology	56,400	150,400	+ 94,000
	Program increase: Advanced polymers for force protection			+ 8,000
	Program increase: Advanced materials manufacturing			+ 8,000
	Program increase: Advanced manufacturing materials processes initiative			+ 10,000
	Program increase: Anti-corrosion materials			+ 7,000
	Program increase: Ceramic materials for extreme environments			+ 5,000
	Program increase: Defense resiliency against extreme cold weather			+ 10,000
	Program increase: Earthen structures soil enhancement			+ 4,000
	Program increase: Materials recovery technology for defense supply resiliency			+ 10,000
	Program increase: PFAS modeling			+ 5,000
	Program increase: Polar proving ground and training program			+ 2,000
	Program increase: Rapid advanced deposition			+ 5,000
	Program increase: Rare earth initiative			+ 7,000
	Program increase: Verified inherent control			+ 10,000
	Program increase: Rapid infrastructure development and engineering			+ 3,000
12	Next Generation Combat Vehicle Technology	172,166	210,666	+ 38,500
	Program increase: Additive manufacturing for jointless hull			+ 10,000
	Program increase: Fast-refueling fuel cell engines			+ 7,000
	Program increase: Hydrogen technologies			+ 10,000
	Program increase: Silicon carbide electronics			+ 5,500
	Program increase: Machine learning optimized power electronics			+ 3,000
	Program increase: Zero emission combat vehicles			+ 3,000
13	Network C3I Technology	84,606	147,606	+ 63,000
	Program increase: ALTNAV			+ 8,000
	Program increase: Anti-tamper technology			+ 5,000
	Program increase: Mobile environmental contaminant sensors			+ 5,000
	Program increase: Mass-distributed acoustic surveillance network			+ 8,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Distributed radio frequency and sensor technology development			+ 8,000
	Program increase: Integrated photonics for contested RF environments			+ 20,000
	Program increase: Urban subterranean mapping technology			+ 4,000
	Program increase: Social network analysis			+ 5,000
14	Long Range Precision Fires Technology	64,285	77,285	+ 13,000
	Program increase: High speed structures for advanced materials			+ 10,000
	Program increase: Novel printed armament components			+ 3,000
15	Future Vertical Lift Technology	91,411	123,411	+ 32,000
	Program increase: Adaptive flight control technology ..			+ 7,000
	Program increase: High density eVTOL power source ..			+ 15,000
	Program increase: Rotor blade operational readiness ..			+ 5,000
	Program increase: Missile technology transfer and innovation			+ 5,000
16	Air and Missile Defense Technology	19,316	79,216	+ 59,900
	Program increase: Counter-UAS center of excellence ..			+ 2,500
	Program increase: Army missile risk-based mission assurance			+ 15,000
	Program increase: Beam control systems and industry grade optical fiber fabrication for directed energy ..			+ 8,400
	Program increase: HEL lethality testing and expansion			+ 10,000
	Program increase: HEL optical technology			+ 6,000
	Program increase: HEL technology integration			+ 10,000
	Program increase: Kill chain automation			+ 8,000
25	Medical Technology	91,720	96,720	+ 5,000
	Program increase: Physiological study of female warfighters to improve training			+ 5,000
26	Medical Advanced Technology	43,804	60,804	+ 17,000
	Program increase: Peer-reviewed military burn research			+ 10,000
	Program increase: Burn care training curriculum			+ 5,000
	Program increase: Heat stress on female service members			+ 2,000
37	Soldier Lethality Advanced Technology	107,966	136,466	+ 28,500
	Program increase: Advanced AI/AA analytics for modernization and readiness			+ 10,000
	Program increase: Ferrium steel for improved personal protective equipment			+ 5,000
	Program increase: Human machine teaming			+ 4,000
	Program increase: Impact attenuation materials for limb protection			+ 1,500
	Program increase: Soldier situational awareness			+ 8,000
38	Ground Advanced Technology	23,403	150,003	+ 126,600
	Program increase: Accelerator technology for ground maneuver			+ 5,000
	Program increase: Additive construction for field deployment			+ 4,000
	Program increase: Anticipating threats to natural systems			+ 5,000
	Program increase: Coastal terrain hazard research			+ 6,000
	Program increase: Autonomous construction and manufacturing			+ 5,000
	Program increase: Autonomous combat engineering solutions			+ 4,000
	Program increase: Biofuel			+ 6,000
	Program increase: Biomass polymer technology			+ 2,000
	Program increase: Cold weather energy research			+ 5,000
	Program increase: Cold weather research			+ 3,000
	Program increase: Cross-laminated timber and recycled carbon fiber materials			+ 3,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Distributed technologies for steam loop replacements			+ 5,000
	Program increase: Expeditionary additive construction			+ 10,000
	Program increase: Frost heave effects monitoring			+ 4,500
	Program increase: Graphene applications for military engineering			+ 10,000
	Program increase: Hardened facility standards			+ 4,600
	Program increase: Impacts of soil structures on hydrology			+ 5,000
	Program increase: Infrastructure resilience and flood assessment			+ 3,500
	Program increase: Infrastructure smart technology			+ 5,000
	Program increase: Materials and manufacturing technology for cold environments			+ 4,000
	Program increase: Partnership and technology transfer			+ 4,000
	Program increase: Power projection			+ 7,000
	Program increase: Sustainable smart utilities			+ 5,000
	Program increase: Water resiliency and self sufficiency			+ 4,000
	Program increase: 3D printing of concrete			+ 2,000
	Program increase: Entry control points at installations			+ 5,000
42	High Performance Computing Modernization Program	189,123	229,123	+ 40,000
	Program increase			+ 40,000
43	Next Generation Combat Vehicle Advanced Technology	164,951	216,451	+ 51,500
	Program increase: Advanced materials applications			+ 12,000
	Program increase: Augmented reality for denied environments			+ 7,000
	Program increase: Autonomous minefield clearance			+ 7,000
	Program increase: Autonomous vehicle mobility			+ 10,000
	Program increase: HMMWV automotive enhancements			+ 3,000
	Program increase: Predictive maintenance system			+ 2,000
	Program increase: Unmanned navigation technology			+ 2,500
	Program increase: Virtual and physical prototyping			+ 8,000
44	Network C3I Advanced Technology	155,867	202,867	+ 47,000
	Program increase: APNT technology			+ 4,000
	Program increase: Advanced materials for resilient sensors			+ 5,000
	Program increase: Alternative navigation for GPS-denied landing environments			+ 4,500
	Program increase: Edge-High performance computing for multi-domain operations			+ 5,000
	Program increase: HALITE			+ 3,500
	Program increase: Next generation command posts			+ 10,000
	Program increase: Receiver-sensor technology for tactical networks			+ 15,000
45	Long Range Precision Fires Advanced Technology	93,909	96,909	+ 3,000
	Program increase: Maneuvering submunitions for precision strike missile			+ 3,000
46	Future Vertical Lift Advanced Technology	179,677	217,677	+ 38,000
	Program increase: 20mm chaingun development for FLARA			+ 8,000
	Program increase: Digital backbone			+ 5,000
	Program increase: Elastomeric imaging			+ 3,000
	Program increase: Platform digitization and maintenance			+ 5,000
	Program increase: Stretch broken carbon fiber			+ 10,000
	Program increase: UAS fuel systems enhancements			+ 2,000
	Program increase: Composite structures			+ 5,000
47	Air and Missile Defense Advanced Technology	48,826	134,826	+ 86,000
	Program increase: Armored combat vehicle HEL integration			+ 12,000
	Program increase: HEL for All-Terrain Vehicles			+ 5,000
	Program increase: HEL risk reduction			+ 46,000
	Program increase: Missile MENTOR			+ 15,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
49	Program increase: Silicon carbide electronics			+ 8,000
	Army Missile Defense Systems Integration	11,702	48,702	+ 37,000
	Program increase: A2IFS			+ 23,500
	Program increase: Electro-magnetic denial and protect			+ 6,000
	Program increase: Integrated environmental control and power			+ 5,000
50	Program increase: Multiple engagement end-to-end testbed			+ 2,500
	Army Space Systems Integration	18,755	25,755	+ 7,000
	Program increase: Communications resiliency arrays of distributed local elements			+ 5,000
	Program increase: Multi-function and multi-mission payload			+ 2,000
52	Landmine Warfare and Barrier—Adv Dev	50,314	46,687	- 3,627
	SAVO OTA previously funded			- 386
	SAVO Test requirements previously funded			- 1,186
	Nest Generation Mounted Breaching System TMRR government costs ahead of need			- 555
	Nest Generation Mounted Breaching System experimentation testing ahead of need			- 1,500
53	Tank and Medium Caliber Ammunition	79,873	76,463	- 3,410
	LRPM product development ahead of need			- 3,410
54	Armored System Modernization—Adv Dev	170,590	164,590	- 6,000
	Experimental prototyping excess to need			- 6,000
57	Night Vision Systems Advanced Development	18,000	82,820	+ 64,820
	HUD ECP ahead of need			- 10,180
	Transfer from OP,A line 83 for IVAS development			+ 75,000
58	Environmental Quality Technology—Dem/Val	11,921	14,921	+ 3,000
	Program increase: Biopolymers for military infrastructure			+ 3,000
60	Aviation—Adv Dev	1,125,641	1,153,460	+ 27,819
	Unjustified growth—FARA SEPM			- 5,181
	Program increase: FLRAA			+ 33,000
61	Logistics and Engineer Equipment—Adv Dev	7,055	7,444	+ 389
	ABV RCS prototype and development previously funded			- 3,611
	Program increase: Lightweight portable power generation			+ 4,000
63	Soldier Systems—Advanced Development	17,459	25,959	+ 8,500
	Program increase: Multi-spectral signature management			+ 4,500
	Program increase: Lightweight C-sUAS force protection system			+ 4,000
64	Robotics Development	87,198	58,461	- 28,737
	Other support costs unjustified growth			- 11,820
	Prototype manufacturing costs ahead of need			- 14,261
	Prototype development engineering costs ahead of need			- 16,605
	Modeling and simulation carryover			- 6,051
65	Program increase: Robotic combat vehicle-medium			+ 20,000
	Expanded Mission Area Missile (EMAM)	50,674	5,067	- 45,607
	IFPC-HEL prototype contract ahead of need			- 13,514
72	IFPC-HPM prototype contract ahead of need			- 32,093
	Future Tactical Unmanned Aircraft System (FUAS)	69,697	40,367	- 29,330
	FUAS labor excess due to acquisition strategy change			- 34,330
73	Program increase: Micro-IFF for FUAS			+ 5,000
	Lower Tier Air Missile Defense (LTAMD) Sensor	327,690	284,153	- 43,537
	Rapid prototyping excess to need			- 11,800
	Prototyping/P31 carryover			- 22,692
74	Test and evaluation carryover			- 9,045
	Technology Maturation Initiatives	270,124	162,602	- 107,522
	Undefined requirement for Super-System and Technology Product Prototyping			- 72,602

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Undefined requirement for Emerging Technology Development Initiatives			- 34,920
77	Assured Positioning, Navigation and Timing (PNT)	96,679	76,471	- 20,208
	MAPS developmental and field test previously funded			- 1,725
	MAPS client platform and integration transitioning to procurement			- 18,483
78	Synthetic Training Environment Refinement & Prototyping ..	194,195	198,195	+ 4,000
	Program increase: Multi-sensor terrain data capture			+ 4,000
80	Hypersonics	300,928	310,448	+ 9,520
	Overestimation of GSE			- 34,480
	Program increase: Glidebody risk reduction			+ 44,000
86	Cyberspace Operations Forces and Force Support	52,988	39,988	- 13,000
	TRIDENT contract delay			- 16,000
	Prior year PCTE excess to OTA award			- 1,000
	Program increase: Army cyber institutes			+ 4,000
91	Infantry Support Weapons	67,873	72,839	+ 4,966
	Advanced Tactical Parachute DT/OT unjustified growth			- 935
	Next Generation Fire Control OTA savings			- 4,099
	Program increase: Soldier enhancement program			+ 10,000
94	Family of Heavy Tactical Vehicles	31,602	30,077	- 1,525
	Leader/Follower test support ahead of need			- 1,525
97	Armored Systems Modernization (ASM)—Eng Dev	137,256	124,528	- 12,728
	MPF program management costs transition to procurement			- 1,956
	MPF rapid prototyping product development contract excess to ceiling			- 10,772
98	Night Vision Systems—Eng Dev	62,690	39,533	- 23,157
	NVG-N undefined acquisition strategy			- 19,273
	ENVG-B development excess to need			- 3,884
104	Distributive Interactive Simulations (DIS)—Eng Dev	7,453	12,453	+ 5,000
	Program increase: Bathymetric unmanned littoral LiDar			+ 5,000
107	Brigade Analysis, Integration and Evaluation	21,534	19,808	- 1,726
	Overestimation of engineering and Analysis core labor			- 1,726
108	Weapons and Munitions—Eng Dev	309,778	283,520	- 26,258
	Unjustified growth—XM654 engineering support			- 3,658
	XM654 cased supercharge qualification testing ahead of need			- 1,000
	Reduction in .50 Cal reduced range ammunition EMD vendors			- 1,350
	7.62mm reduced range ammunition EMD down-select previously funded			- 1,500
	OWL 7.62mm EMD down-select previously funded			- 2,000
	C-DAEM armor EMD award phasing			- 16,750
109	Logistics and Engineer Equipment—Eng Dev	59,261	59,661	+ 400
	FoHMLC-B DSB max weight testing previously funded			- 1,600
	Program increase: National hydrography dataset			+ 2,000
113	Army Tactical Command & Control Hardware & Software	162,704	158,613	- 4,091
	AIC modernization ahead of need			- 2,147
	Unjustified growth—Army Tactical C2 Systems Engineering			- 1,944
114	Radar Development	127,919	122,607	- 5,312
	A4 product development excess to need			- 5,312
115	General Fund Enterprise Business System [GFEBs]	17,623	15,979	- 1,644
	GFEBs capability enhancement carryover			- 1,644
118	Suite of Survivability Enhancement Systems—EMD	106,354	86,354	- 20,000
	MAC carryover			- 20,000
120	Information Technology Development	122,168	129,515	+ 7,347
	USMIRS 1.1 non-core applications overestimation			- 1,724
	GFIM Phase II insufficient budget justification			- 3,429
	Program increase: Installation access control technology			+ 4,500
	Program increase: Smart installation and community program			+ 8,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
121	Integrated Personnel and Pay System—Army (IPPS—A)	76,936	58,736	— 18,200
	In-House Contract support carryover			— 10,400
	System integrator contract savings			— 7,800
131	Defensive CYBER Tool Development	18,892	7,490	— 11,402
	Cyber SU development excess to need			— 11,402
133	Contract Writing System	22,960	20,960	— 2,000
	ACWS product development delays			— 2,000
135	Aircraft Survivability Development	65,603	57,822	— 7,781
	LIMWS development carryover			— 10,781
	Program increase: Aviation AI virtual training environment			+ 3,000
136	Indirect Fire Protection Capability Inc 2—Block 1	233,512	162,781	— 70,731
	OTA prototyping ahead of need			— 70,731
137	Ground Robotics	18,241	16,360	— 1,881
	S—MET PMO support transition to procurement			— 700
	Unjustified growth—Common Robotic Controller PMO support			— 1,181
138	Emerging Technology Initiatives	254,945	217,303	— 37,642
	Unjustified growth—Concept prototyping			— 37,642
140	Next Generation Load Device—Medium	15,616	15,397	— 219
	Test and evaluation ahead of need			— 219
141	Medical Products and Support Systems Development	962	3,962	+ 3,000
	Program increase: Wearable medical device for TBI prevention			+ 3,000
142	Tactical Intel Targeting Access Node (TITAN) EMD	54,972	40,972	— 14,000
	Unjustified request—Phase 3 concurrency			— 14,000
149	Accessions Information Environment (AIE)	18,790	16,790	— 2,000
	Development delays			— 2,000
153	Manned Ground Vehicle	225,106	202,371	— 22,735
	Unjustified growth—other support costs			— 8,886
	Unjustified growth—program management			— 5,449
	Phase 2 contract savings			— 8,400
154	National Capabilities Integration [MIP]	14,454	11,888	— 2,566
	Overestimation of Air Vigilance development			— 2,566
161	Electronic Warfare Development	75,520	72,328	— 3,192
	TLS Phase 3 ahead of need			— 3,192
162	Threat Simulator Development	18,439	61,439	+ 43,000
	Program increase: Cybersecurity operations center			+ 40,000
	Program increase: Threat cyberspace operations			+ 3,000
163	Target Systems Development	17,404	42,404	+ 25,000
	Program increase: UAS swarm threat representation, detection, and mitigation			+ 25,000
165	Rand Arroyo Center	33,126	26,978	— 6,148
	Overestimation of requirements change			— 6,148
169	Army Test Ranges and Facilities	354,227	367,227	+ 13,000
	Program increase: Counter—UAS HEL platform integration			+ 10,000
	Program increase: Environmental characterization for test operations			+ 3,000
170	Army Technical Test Instrumentation and Targets	49,253	54,253	+ 5,000
	Program increase: RAMP—T			+ 5,000
183	Army Direct Report Headquarters—R&D—MHA	52,108	49,108	— 3,000
	Overestimation of requirements			— 3,000
192	Weapons and Munitions Product Improvement Programs	22,828	34,828	+ 12,000
	Lightweight Case Ammunition contract delay			— 1,000
	Program increase: Printed electronics			+ 5,000
	Program increase: Tungsten manufacturing affordability initiative for armaments			+ 8,000
194	Blackhawk Product Improvement Program	4,773	3,260	— 1,513
	Test and evaluation carryover			— 1,513
195	Chinook Product Improvement Program	52,372	67,872	+ 15,500
	Program increase: Engine enhancement program			+ 7,500
	Program increase: Lightweight ballistic protection system			+ 8,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
200	AN/TPQ-53 Counterfire Target Acquisition Radar System	56,681	47,752	- 8,929
	DDREX NRE phasing			- 8,929
207	Combat Vehicle Improvement Programs	211,523	210,130	- 1,393
	Unjustified growth—Bradley PMO support			- 1,393
208	155mm Self-Propelled Howitzer Improvements	213,281	175,155	- 38,126
	ERCA rate of fire prototype build ahead of need			- 38,126
215	Lower Tier Air and Missile Defense [AMD] System	182		- 182
	Program transitioned to Patriot Product Improvement line			- 182
216	Guided Multiple-Launch Rocket System [GMLRS]	63,937	60,733	- 3,204
	OGA carryover			- 3,204
221	Global Combat Support System	52,739	47,297	- 5,442
	DISCOPS acquisition strategy change			- 5,442
234	End Item Industrial Preparedness Activities	61,720	78,720	+ 17,000
	Program increase: Advanced manufacturing cell for missile fins			+ 8,000
	Program increase: Lightweight transparent film armor			+ 4,000
	Program increase: Scalable manufacturing of engineered fabrics			+ 5,000
237	Defensive CYBER—Software Prototype Development	118,811	100,059	- 18,752
	Overestimation of program management costs			- 6,922
	Overestimation of DCO mission planning costs			- 3,000
	Cyberspace analytics excess to need			- 8,830

Soldier Ballistic Technologies.—The Committee supports continued investments in the Army’s Physics of Soldier Protection for Defeat of Evolving Threats program and its focus in advanced composite, ceramic, film, fiber, and fabric materials for personal protective equipment, as well as modeling of failures from ballistic penetration, improvements to traditional hard plates, and kinetic defeat options. Continued advancements in personal protection systems for the warfighter is essential to maintain the safety of our warfighters against the evolving ballistic capabilities of our adversaries. Further, the Committee encourages the Secretary of the Army to leverage advancements in additive manufacturing processes of ceramic nanocomposites for the production of armors that provide reduced weight and increased coverage for soldiers.

Hydrogen and Energy Storage.—The Committee recognizes the value of low-cost hydrogen fuel cells in long-duration energy storage applications and energy resiliency for installations. Therefore, the Committee encourages the Secretary of the Army to continue investment in the Construction Engineering Research Laboratory’s evaluation of hydrogen fuel cells as part of its resiliency planning study for fixed military bases. In light of the threat of cyber-attacks on power grids, these fuel cells provide onsite back-up power generators that can minimize the threat of interruptions to the electrical power supply.

Diversity of the Research and Engineering Workforce.—The Committee notes that section 229 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116-333) directed the Secretary of Defense to develop and implement a plan to diversify and strengthen the Department’s science, technology, research, and engineering workforce using existing programs and authorities. The Department of the Army’s Ground Vehicle Systems Center is commended for diversifying its workforce by developing non-traditional

partnerships to actively recruit women and minorities into its organization by collaborating with non-profit and academic research institutions. The Committee encourages the Secretary of the Army to maintain their efforts in critical research areas while diversifying its workforce.

Distributed Radio Frequency Sensor.—The Committee supports continued expansion of the Army Research Laboratory's collaboration with academia in the development of technology to enable new distributed and multi-function radio frequency [RF] sensors. Investments in modeling, simulation, and emulation of distributed RF sensors and effectors along with investments in advanced materials-based antennas and methods for timing and synchronization across large numbers of platforms has potential to increase the effectiveness of the current RF sensor and effector architecture.

Natural Gas in Cold Weather Climates.—The Committee notes that natural gas is the leading energy source in the United States and the Department of Defense is the leading energy consumer within the United States Government. Given the extreme environmental conditions within which the Department must operate, including environments with extremely cold ambient temperatures, the Committee is interested in the delivery and use of natural gas in these climates, but is aware of the distinct challenges that this presents. The Committee encourages the Deputy Assistant Secretary of Defense, Energy and Energy Resiliency to study additional opportunities to use natural gas in cold climates.

Advanced Combat Engine.—The Committee is encouraged by the investments that the Department of the Army has made to provide a more fuel-efficient, lower emissions, and cost-efficient engine to support the Next Generation Combat Vehicles. The Committee understands that the opposed piston engine technology used in the Advanced Combat Engine provides a significant increase in power density, packaging size, and efficiency compared to current engines in combat applications and provides a modular, flexible platform that can be efficiently leveraged across the current and future generations of combat vehicles. The Committee anticipates that these benefits will reduce fuel consumption and overall powertrain packaging requirements, allowing for an increase in armor, payload, and offensive systems compared to current weapons systems. The Committee encourages the Director, Combat Capabilities Development Command Army Ground Vehicle Systems Center to continue development and testing of the opposed piston engine to ensure its availability for future combat systems and retrofit within existing systems, as applicable.

Small Unit Ground Robotic Capabilities.—The Committee notes that integrating weapons systems such as the Soldier Borne Sensor and Small Multipurpose Equipment Transport into small-unit maneuver forces is essential to maintain overmatch in an increasingly contested and automated battlefield. Therefore, the Committee encourages the Secretary of the Army to continue prioritizing investment in air and ground robotic capabilities for small-unit maneuver forces.

Wire Arc Additive Manufacturing.—The Committee supports the development of wire arc additive manufacturing of optimized multi-metal components for application in future Army combat systems.

Investment in this area could lead to increases in quality and cost effectiveness of producing future combat systems.

Waveform Diversity Research.—The Committee understands that radio frequency [RF] systems including command, control and communications, and radar face challenges from the increased use and regulation of the electromagnetic [EM] spectrum, and advances in adversarial electronic warfare technologies. The Committee notes that advances in waveform and cognitive technologies for RF based systems and sensors can enable spectrum agility and adaptability that are required to maintain our sensing and communication capabilities in future EM environments. Therefore, the Committee encourages the Secretary of the Army to continue experimentation on ways to increase waveform diversity, agility, and adaptability across its weapon systems.

Army Software Factory.—The Committee commends the Director, Army Futures Command for establishing the Army Software Factory. This integrated software development initiative to train and employ organic talent from all ranks within the military and civilian workforce in the areas of software engineering, platform operations, and design will produce an organic capability within the Department to build, develop, field, and operate software much like commercial technology companies. Agile software development combined with soldier-centric designs focused on the end user will be critical in future battlefield environments with near-peer adversaries where soldiers will not be able to rely on technical assistance or reach back capabilities. The Committee encourages the Secretary of the Army to provide the necessary resources to ensure the success of this effort.

Army Test Range Workforce.—The Department of the Army's significant investment in modernization priorities can only be successful with a robust Army test range complex and its supporting workforce to validate its efforts. As much as any time in history, the test community is of vital importance to characterize weapon systems and demonstrate the operational effectiveness of an increasing number of prototypes and technologies that the Army looks to employ. Therefore, the Committee encourages the Secretary of the Army to ensure that sufficient resources are available to sustain the Army Test and Evaluation Command's workforce across the range complex.

Enterprise Information Technology as a Service.—The Committee notes that the Army is conducting a pilot program to leverage commercial services that deliver and manage protected information technology services linking the enterprise to the Department of Defense Information Network-Army. The current pilot will continue through fiscal year 2023 with three separate vendors operating at three Army sites with distinct infrastructure and customer challenges. The Committee supports this initiative and its ability to offer insights to senior leaders on commercial best practices currently employed by private service providers. With the understanding that the pilot is ongoing, the Committee encourages the Program Executive Officer, Enterprise Information Systems to assess the potential for expansion of the program to additional sites, including the associated costs to establish and operate the Enterprise Information Technology as a Service program in comparison

to legacy operation models, infrastructure and configuration challenges, and schedule for implementation.

Antimicrobial Textiles.—The Committee is aware of recent advancements in antimicrobial and antiviral technologies that can be incorporated into clothing and individual equipment for protection against biological threats. The Committee directs the Assistant Secretary of Defense for Sustainment, not later than 180 days after the enactment of this act, to provide a report to the congressional defense committees, on the current efforts, effectiveness, and feasibility of including antimicrobial and antiviral technology in the manufacturing of service issued clothing and individual equipment. The report shall include an analysis of the technical maturity of available antimicrobial and antiviral textile based solutions and strategy for incorporating any technically mature solutions into service issued clothing or personal equipment. The report shall also include a review of the ability of the industrial base to support the manufacturing of these products and provide any resources or capability gaps that exist within the industrial base to meet the demand.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Budget estimate, 2022	\$22,639,362,000
Committee recommendation	21,546,521,000

The Committee recommends an appropriation of \$21,546,521,000. This is \$1,092,841,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY			
	BASIC RESEARCH			
1	UNIVERSITY RESEARCH INITIATIVES	117,448	235,448	+ 118,000
3	DEFENSE RESEARCH SCIENCES	484,421	568,421	+ 84,000
	TOTAL, BASIC RESEARCH	601,869	803,869	+ 202,000
	APPLIED RESEARCH			
4	POWER PROJECTION APPLIED RESEARCH	23,013	31,013	+ 8,000
5	FORCE PROTECTION APPLIED RESEARCH	122,888	211,388	+ 88,500
6	MARINE CORPS LANDING FORCE TECHNOLOGY	51,112	56,612	+ 5,500
7	COMMON PICTURE APPLIED RESEARCH	51,477	51,477	.....
8	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	70,547	97,797	+ 27,250
9	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	85,157	91,157	+ 6,000
10	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	70,086	78,086	+ 8,000
11	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	6,405	6,405	.....
12	UNDERSEA WARFARE APPLIED RESEARCH	57,484	99,734	+ 42,250
13	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	173,356	198,856	+ 25,500
14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	32,160	32,160	.....
15	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH	152,976	123,061	- 29,915
16	SCIENCE AND TECHNOLOGY MANAGEMENT—ONR HEAD- QUARTERS	79,254	79,254	.....
	TOTAL, APPLIED RESEARCH	975,915	1,157,000	+ 181,085

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	ADVANCED TECHNOLOGY DEVELOPMENT			
17	FORCE PROTECTION ADVANCED TECHNOLOGY	21,661	30,161	+ 8,500
18	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	8,146	8,146	.....
19	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION [ATD]	224,155	262,255	+ 38,100
20	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT ..	13,429	13,429	.....
21	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV	265,299	288,299	+ 23,000
22	MANUFACTURING TECHNOLOGY PROGRAM	57,236	72,236	+ 15,000
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,935	4,935	.....
24	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS ...	47,167	47,167	.....
25	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY	1,981	1,981	.....
26	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY	133,779	143,779	+ 10,000
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	777,788	872,388	+ 94,600
	ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
27	UNMANNED AERIAL SYSTEM	16,879	16,879	.....
28	LARGE UNMANNED SURFACE VEHICLES (LUSVS)	144,846	71,746	- 73,100
29	AIR/OCEAN TACTICAL APPLICATIONS	27,849	27,849	.....
30	AVIATION SURVIVABILITY	16,815	24,815	+ 8,000
31	NAVAL CONSTRUCTION FORCES	5,290	5,290	.....
33	ASW SYSTEMS DEVELOPMENT	17,612	17,612	.....
34	TACTICAL AIRBORNE RECONNAISSANCE	3,111	3,111	.....
35	ADVANCED COMBAT SYSTEMS TECHNOLOGY	32,310	32,310	.....
36	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	58,013	58,013	.....
37	SURFACE SHIP TORPEDO DEFENSE	1,862	5,862	+ 4,000
38	CARRIER SYSTEMS DEVELOPMENT	7,182	7,182	.....
39	PILOT FISH	408,087	408,087	.....
40	RETRACT LARCH	44,197	44,197	.....
41	RETRACT JUNIPER	144,541	144,541	.....
42	RADIOLOGICAL CONTROL	761	761	.....
43	SURFACE ASW	1,144	1,144	.....
44	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	99,782	99,782	.....
45	SUBMARINE TACTICAL WARFARE SYSTEMS	14,059	14,059	.....
46	SHIP CONCEPT ADVANCED DESIGN	111,590	109,020	- 2,570
47	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	106,957	35,787	- 71,170
48	ADVANCED NUCLEAR POWER SYSTEMS	203,572	203,572	.....
49	ADVANCED SURFACE MACHINERY SYSTEMS	78,122	88,122	+ 10,000
50	CHALK EAGLE	80,270	80,270	.....
51	LITTORAL COMBAT SHIP (LCS)	84,924	84,924	.....
52	COMBAT SYSTEM INTEGRATION	17,322	17,322	.....
53	OHIO REPLACEMENT	296,231	306,231	+ 10,000
54	LCS MISSION MODULES	75,995	75,995	.....
55	AUTOMATED TEST AND RE-TEST	7,805	7,805	.....
56	FRIGATE DEVELOPMENT	109,459	102,799	- 6,660
57	CONVENTIONAL MUNITIONS	7,296	7,296	.....
58	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	77,065	66,565	- 10,500
59	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	34,785	34,785	.....
60	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	8,774	8,774	.....
61	ENVIRONMENTAL PROTECTION	20,677	20,677	.....
62	NAVY ENERGY PROGRAM	33,824	43,224	+ 9,400
63	FACILITIES IMPROVEMENT	6,327	6,327	.....
64	CHALK CORAL	579,389	579,389	.....
65	NAVY LOGISTIC PRODUCTIVITY	669	669	.....
66	RETRACT MAPLE	295,295	295,295	.....
67	LINK PLUMERIA	692,280	692,280	.....
68	RETRACT ELM	83,904	83,904	.....
69	LINK EVERGREEN	221,253	264,453	+ 43,200
71	NATO RESEARCH AND DEVELOPMENT	5,805	5,805	.....
72	LAND ATTACK TECHNOLOGY	4,017	4,017	.....
73	JOINT NONLETHAL WEAPONS TESTING	29,589	29,589	.....
74	JOINT PRECISION APPROACH AND LANDING SYSTEMS	24,450	24,450	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
75	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	81,803	81,803	.....
76	F/A-18 INFRARED SEARCH AND TRACK (IRST)	48,793	48,793	.....
77	DIGITAL WARFARE	46,769	46,769	.....
78	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES	84,676	84,676	.....
79	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	59,299	43,291	- 16,008
81	LARGE UNMANNED UNDERSEA VEHICLES	88,063	56,983	- 31,080
82	GERALD R FORD CLASS NUCLEAR AIRCRAFT CARRIER	121,509	121,509	.....
83	LITTORAL AIRBORNE MCM	18,669	18,669	.....
84	SURFACE MINE COUNTERMEASURES	13,655	13,655	.....
85	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	33,246	33,246	.....
86	NEXT GENERATION LOGISTICS	1,071	6,071	+ 5,000
87	FUTURE VERTICAL LIFT (MARITIME STRIKE)	9,825	9,825	.....
88	RAPID TECHNOLOGY CAPABILITY PROTOTYPE	6,555	11,555	+ 5,000
89	LX (R)	3,344	3,344	.....
90	ADVANCED UNDERSEA PROTOTYPING	58,473	42,375	- 16,098
91	COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS)	5,529	5,529	.....
92	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	97,944	103,944	+ 6,000
93	SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE	9,340	9,340	.....
94	OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT	127,756	70,792	- 56,964
95	MEDIUM UNMANNED SURFACE VEHICLES (MUSVS)	60,028	60,028	.....
96	UNMANNED SURFACE VEHICLE ENABLING CAPABILITIES	170,838	164,178	- 6,660
97	GROUND BASED ANTI-SHIP MISSILE (MARFORRES)	102,716	102,716	.....
98	LONG RANGE FIRES (MARFORRES)	88,479	88,479	.....
99	CONVENTIONAL PROMPT STRIKE (CPS)	1,372,340	1,266,290	- 106,050
100	ASW SYSTEMS DEVELOPMENT—MIP	8,571	8,571	.....
101	ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM	16,204	16,204	.....
102	ELECTRONIC WARFARE DEVELOPMENT—MIP	506	506	.....
	TOTAL, DEMONSTRATION & VALIDATION	7,077,987	6,781,727	- 296,260
	SYSTEM DEVELOPMENT & DEMONSTRATION			
103	TRAINING SYSTEM AIRCRAFT	5,864	5,864	.....
104	OTHER HELO DEVELOPMENT	56,444	56,444	.....
105	AV-8B AIRCRAFT—ENG DEV	10,146	10,146	.....
106	STANDARDS DEVELOPMENT	4,082	4,082	.....
107	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	46,418	54,418	+ 8,000
108	P-3 MODERNIZATION PROGRAM	579	579	.....
109	WARFARE SUPPORT SYSTEM	10,167	10,167	.....
110	COMMAND AND CONTROL SYSTEMS	122,913	122,913	.....
111	ADVANCED HAWKEYE	386,860	365,660	- 21,200
112	H-1 UPGRADES	50,158	50,158	.....
113	ACOUSTIC SEARCH SENSORS	46,066	46,066	.....
114	V-22A	107,984	112,234	+ 4,250
115	AIR CREW SYSTEMS DEVELOPMENT	22,746	22,746	.....
116	EA-18	68,425	68,425	.....
117	ELECTRONIC WARFARE DEVELOPMENT	139,535	139,535	.....
118	EXECUTIVE HELO DEVELOPMENT	45,932	45,932	.....
119	NEXT GENERATION JAMMER [NGJ]	243,923	243,923	.....
120	JOINT TACTICAL RADIO SYSTEM—NAVY [JTRS-Navy]	234,434	234,434	.....
121	NEXT GENERATION JAMMER [NGJ] INCREMENT II	248,096	146,596	- 101,500
122	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	371,575	327,054	- 44,521
123	LPD-17 CLASS SYSTEMS INTEGRATION	904	904	.....
124	SMALL DIAMETER BOMB [SDB]	46,769	46,769	.....
125	STANDARD MISSILE IMPROVEMENTS	343,511	343,511	.....
126	AIRBORNE MCM	10,881	10,881	.....
127	NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG	46,121	52,621	+ 6,500
129	ADVANCED ABOVE WATER SENSORS	77,852	77,852	.....
130	SSN-688 AND TRIDENT MODERNIZATION	95,693	95,693	.....
131	AIR CONTROL	27,499	27,499	.....
132	SHIPBOARD AVIATION SYSTEMS	8,924	8,924	.....
133	COMBAT INFORMATION CENTER CONVERSION	11,631	11,631	.....
134	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	96,556	96,556	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
135	ADVANCED ARRESTING GEAR (AAG)	147	147	.....
136	NEW DESIGN SSN	503,252	573,938	+ 70,686
137	SUBMARINE TACTICAL WARFARE SYSTEM	62,115	62,115	.....
138	SHIP CONTRACT DESIGN/LIVE FIRE T&E	54,829	54,829	.....
139	NAVY TACTICAL COMPUTER RESOURCES	4,290	4,290	.....
140	MINE DEVELOPMENT	76,027	37,944	- 38,083
141	LIGHTWEIGHT TORPEDO DEVELOPMENT	94,386	94,386	.....
142	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	8,348	8,348	.....
143	USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS—ENG DEV	42,144	42,144	.....
144	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	7,375	7,375	.....
146	SHIP SELF DEFENSE (DETECT & CONTROL)	149,433	142,773	- 6,660
147	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	87,862	79,454	- 8,408
148	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	69,006	69,006	.....
149	INTELLIGENCE ENGINEERING	20,684	20,684	.....
150	MEDICAL DEVELOPMENT	3,967	3,967	.....
151	NAVIGATION/ID SYSTEM	48,837	50,037	+ 1,200
152	JOINT STRIKE FIGHTER (JSF)—EMD	577	577	.....
153	JOINT STRIKE FIGHTER (JSF)	262	262	.....
154	SSN(X)	29,829	29,829	.....
155	MARINE CORPS IT DEV/MOD	11,277	11,277	.....
156	INFORMATION TECHNOLOGY DEVELOPMENT	243,828	245,979	+ 2,151
157	ANTI-TAMPER TECHNOLOGY SUPPORT	8,426	8,426	.....
158	TACAMO MODERNIZATION	150,592	.....	- 150,592
159	CH-53K	256,903	241,618	- 15,285
160	MISSION PLANNING	88,128	88,128	.....
161	COMMON AVIONICS	60,117	60,117	.....
162	SHIP TO SHORE CONNECTOR (SSC)	6,320	6,320	.....
163	T-AO 205 CLASS	4,336	4,336	.....
164	UNMANNED CARRIER AVIATION	268,937	268,937	.....
165	JOINT AIR-TO-GROUND MISSILE (JAGM)	356	356	.....
166	MULTI-MISSION MARITIME AIRCRAFT [MMA]	27,279	27,279	.....
167	MULTI-MISSION MARITIME AIRCRAFT [MMA] INCREMENT 3 ...	173,784	162,884	- 10,900
168	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO	80,709	80,709	.....
169	JOINT LIGHT TACTICAL VEHICLE (LTV) SYSTEM DEVELOP- MENT AND DEMO	2,005	2,005	.....
170	DDG-1000	112,576	98,505	- 14,071
174	ISR & INFO OPERATIONS	136,140	136,140	.....
175	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	26,318	26,318	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOP- MENT	5,910,089	5,591,656	- 318,433
	MANAGEMENT SUPPORT			
176	THREAT SIMULATOR DEVELOPMENT	20,862	57,962	+ 37,100
177	TARGET SYSTEMS DEVELOPMENT	12,113	20,113	+ 8,000
178	MAJOR T&E INVESTMENT	84,617	105,617	+ 21,000
179	STUDIES AND ANALYSIS SUPPORT—NAVY	3,108	3,108	.....
180	CENTER FOR NAVAL ANALYSES	38,590	38,590	.....
183	TECHNICAL INFORMATION SERVICES	934	934	.....
184	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	93,966	108,966	+ 15,000
185	STRATEGIC TECHNICAL SUPPORT	3,538	3,538	.....
186	RDT&E SHIP AND AIRCRAFT SUPPORT	135,149	135,149	.....
187	TEST AND EVALUATION SUPPORT	429,277	446,277	+ 17,000
188	OPERATIONAL TEST AND EVALUATION CAPABILITY	24,872	24,872	.....
189	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT ...	17,653	17,653	.....
190	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	8,065	8,065	.....
191	MARINE CORPS PROGRAM WIDE SUPPORT	47,042	33,042	- 14,000
192	MANAGEMENT HEADQUARTERS—R&D	35,614	35,614	.....
193	WARFARE INNOVATION MANAGEMENT	38,958	38,958	.....
194	INSIDER THREAT	2,581	2,581	.....
195	MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES)	1,747	1,747	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, RDT&E MANAGEMENT SUPPORT	998,686	1,082,786	+ 84,100
	OPERATIONAL SYSTEMS DEVELOPMENT			
199	F-35 C2D2	515,746	425,786	- 89,960
200	F-35 C2D2	481,962	397,882	- 84,080
201	MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS (MARFORRES)	65,381	61,381	- 4,000
202	COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	176,486	176,486	.....
203	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	177,098	162,646	- 14,452
204	SSBN SECURITY TECHNOLOGY PROGRAM	45,775	45,775	.....
205	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	64,752	64,752	.....
206	NAVY STRATEGIC COMMUNICATIONS	35,451	35,451	.....
207	F/A-18 SQUADRONS	189,224	179,599	- 9,625
208	SURFACE SUPPORT	13,733	13,733	.....
209	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)	132,181	132,181	.....
210	INTEGRATED SURVEILLANCE SYSTEM	84,276	84,276	.....
211	SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS	6,261	6,261	.....
212	AMPHIBIOUS TACTICAL SUPPORT UNITS	1,657	1,657	.....
213	GROUND/AIR TASK ORIENTED RADAR	21,367	68,367	+ 47,000
214	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	56,741	56,741	.....
215	ELECTRONIC WARFARE [EW] READINESS SUPPORT	62,006	62,006	.....
216	HARM IMPROVEMENT	133,520	133,520	.....
217	SURFACE ASW COMBAT SYSTEM INTEGRATION	28,804	28,804	.....
218	MK-48 ADCAP	114,492	114,492	.....
219	AVIATION IMPROVEMENTS	132,486	132,486	.....
220	OPERATIONAL NUCLEAR POWER SYSTEMS	113,760	113,760	.....
221	MARINE CORPS COMMUNICATIONS SYSTEMS	89,897	89,897	.....
222	COMMON AVIATION COMMAND AND CONTROL SYSTEM	9,324	12,869	+ 3,545
223	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	108,235	108,235	.....
224	MARINE CORPS COMBAT SERVICES SUPPORT	13,185	13,185	.....
225	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS [MIP]	37,695	37,695	.....
226	AMPHIBIOUS ASSAULT VEHICLE	7,551	7,551	.....
227	TACTICAL AIM MISSILES	23,881	23,881	.....
228	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	32,564	32,564	.....
229	PLANNING AND DECISION AID SYSTEM (PDAS)	3,101	3,101	.....
234	AFLOAT NETWORKS	30,890	30,890	.....
235	INFORMATION SYSTEMS SECURITY PROGRAM	33,311	33,311	.....
236	JOINT MILITARY INTELLIGENCE PROGRAMS	7,514	7,514	.....
237	TACTICAL UNMANNED AERIAL VEHICLES	9,837	9,837	.....
238	UAS INTEGRATION AND INTEROPERABILITY	9,797	9,797	.....
239	DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS	38,800	38,800	.....
240	MQ-4C TRITON	13,029	13,029	.....
241	MQ-8 UAV	26,543	33,543	+ 7,000
242	RQ-11 UAV	533	533	.....
243	SMALL (LEVEL 0) TACTICAL UAS (STUASLO)	1,772	1,772	.....
245	MULTI-INTELLIGENCE SENSOR DEVELOPMENT	59,252	59,252	.....
246	UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS [MIP]	9,274	9,274	.....
247	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	36,378	36,378	.....
248	RQ-4 MODERNIZATION	134,323	134,323	.....
249	INTELLIGENCE MISSION DATA (IMD)	907	907	.....
250	MODELING AND SIMULATION SUPPORT	9,772	9,772	.....
251	DEPOT MAINTENANCE (NON-IF)	36,880	46,880	+ 10,000
252	MARITIME TECHNOLOGY (MARITECH)	3,329	3,329	.....
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	3,440,733	3,306,161	- 134,572
9999	CLASSIFIED PROGRAMS	1,872,586	1,922,376	+ 49,790
254	RISK MANAGEMENT INFORMATION—SOFTWARE PILOT PROGRAM	13,703	13,703	.....
255	NAVY NEXT GENERATION ENTERPRISE NETWORK (NGEN)—SOFTWARE PILOT PROGRAM	955,151	.....	- 955,151

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
256	MARITIME TACTICAL COMMAND AND CONTROL (MTC2)— SOFTWARE PILOT PROGRAM	14,855	14,855	.....
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUA- TION, NAVY	22,639,362	21,546,521	-1,092,841

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	University Research Initiatives	117,448	235,448	+118,000
	Program increase: Defense university research instru- mentation program			+110,000
	Program increase: U.S. Navy aircraft fleet readiness and sustainment			+8,000
3	Defense Research Sciences	484,421	568,421	+84,000
	Program increase: Bio-inspired engineering and design for naval applications			+3,000
	Program increase: Generally-capable robotics for naval operations			+4,000
	Program increase: Multifunctional structural batteries ...			+2,000
	Program increase: Basic research			+75,000
4	Power Projection Applied Research	23,013	31,013	+8,000
	Program increase: Multi-mission UAV-borne electronic attack			+8,000
5	Force Protection Applied Research	122,888	211,388	+88,500
	Program increase: Additive manufacturing capability for composite UUVs			+6,000
	Program increase: Bonded metal matrix composite repair Program increase: Direct air capture and blue carbon removal			+5,000
	Program increase: Energy resilience			+10,000
	Program increase: Navy alternative energy research			+7,000
	Program increase: Resilient innovative sustainable economies via university partnerships			+27,500
	Program increase: Talent and technology for Navy power and energy systems			+7,500
	Program increase: Titanium metal and wire domestic production demonstration			+10,500
6	Marine Corps Landing Force Technology	51,112	56,612	+15,000
	Program increase: 5G biometric installation access con- trol demonstration			+5,500
	Program increase: Marine Corps asset life-cycle man- agement			+4,000
8	Warfighter Sustainment Applied Research	70,547	97,797	+1,500
	Program increase: Anticorrosion nanotechnology			+27,250
	Program increase: Development of chromate-free corro- sion inhibitor coatings for marine applications			+7,500
	Program increase: Engineered systems to preserve and restore hearing			+1,750
	Program increase: Human digital twin			+5,000
	Program increase: Hypersonics materials acceleration ...			+3,000
	Program increase: Polymer coatings for reduced ice and fouling adhesion			+5,000
9	Electromagnetic Systems Applied Research	85,157	91,157	+5,000
	Program increase: Dark swarm in degraded environ- ments			+6,000
10	Ocean Warfighting Environment Applied Research	70,086	78,086	+8,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Ocean acoustics			+ 8,000
12	Undersea Warfare Applied Research	57,484	99,734	+ 42,250
	Program increase: Bomb technicians training innovations			+ 2,250
	Program increase: Persistent maritime surveillance			+ 10,000
	Program increase: Research and workforce partnerships for submarine and undersea vehicle programs			+ 20,000
	Program increase: Resident autonomous undersea robotics			+ 7,000
	Program increase: Undersea sensing and communications			+ 3,000
13	Future Naval Capabilities Applied Research	173,356	198,856	+ 25,500
	Program increase: Improved detection of adversarial submarine threats			+ 3,500
	Program increase: Long endurance, autonomous, mobile acoustic detection systems			+ 22,000
15	Innovative Naval Prototypes (INP) Applied Research	152,976	123,061	- 29,915
	Hypersonic booster program			- 29,915
17	Force Protection Advanced Technology	21,661	30,161	+ 8,500
	Program increase: Carbon nanotube energy storage flywheel			+ 4,000
	Program increase: Laser peening of jet engines			+ 4,500
19	USMC Advanced Technology Demonstration [ATD]	224,155	262,255	+ 38,100
	Program increase: Adaptive future force			+ 8,000
	Program increase: AI-powered tactical ISR			+ 5,100
	Program increase: Expeditionary mission support			+ 10,000
	Program increase: Platform agnostic weapons system			+ 5,000
	Program increase: Stand-off security inspection and surveillance system			+ 10,000
21	Future Naval Capabilities Advanced Technology Development	265,299	288,299	+ 23,000
	Program increase: Electronic maneuver warfare unmanned sensors			+ 14,000
	Program increase: Advanced machine learning and artificial intelligence			+ 9,000
22	Manufacturing Technology Program	57,236	72,236	+ 15,000
	Program increase: Chemical reactor and crystallizer technology			+ 15,000
26	Innovative Naval Prototypes (INP) Advanced Technology Development	133,779	143,779	+ 10,000
	Program increase: Energetics renaissance			+ 10,000
28	Large Unmanned Surface Vehicles (LUSVs)	144,846	71,746	- 73,100
	LUSV integrated combat system			- 42,000
	LUSV land based test site early to need			- 18,200
	Unjustified experimentations			- 12,900
30	Aviation Survivability	16,815	24,815	+ 8,000
	Program increase: Context-based augmented reality identification framework			+ 8,000
37	Surface Ship Torpedo Defense	1,862	5,862	+ 4,000
	Program increase: Surface ship torpedo defense towed decoys			+ 4,000
46	Ship Concept Advanced Design	111,590	109,020	- 2,570
	Project 4045 prior year execution baseline adjustment			- 6,570
	Program increase: Metallic additive manufacturing			+ 4,000
47	Ship Preliminary Design & Feasibility Studies	106,957	35,787	- 71,170
	Project 0411 Design and analysis and program management growth early to need			- 71,170
49	Advanced Surface Machinery Systems	78,122	88,122	+ 10,000
	Program increase: Silicon carbide power modules			+ 10,000
53	Ohio Replacement	296,231	306,231	+ 10,000
	Program increase: Rapid composites for wet submarine application			+ 10,000
56	Frigate Development	109,459	102,799	- 6,660
	FORGE software factory acquisition strategy			- 6,660
58	Marine Corps Ground Combat/Support System	77,065	66,565	- 10,500

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	ARV change to Marine Corps acquisition strategy			- 10,500
62	Navy Energy Program	33,824	43,224	+ 9,400
	Program increase: Marine energy technology for undersea sensors and microgrids			+ 10,500
	Project 0996 prior year systems engineering no longer funded			- 1,100
69	LINK EVERGREEN	221,253	264,453	+ 43,200
	Classified adjustment			+ 43,200
79	Unmanned Undersea Vehicle Core Technologies	59,299	43,291	- 16,008
	Project 3393 Unmanned constellation lack of justification			- 11,793
	Project 3393 RAIL software factory acquisition strategy			- 4,215
81	Large Unmanned Undersea Vehicles	88,063	56,983	- 31,080
	Phase 2 contract award delay			- 31,080
83	Airborne MCM	18,669	18,669	
	Project 2131 transfer COBRA Block II to Block I upgrades only			- 9,626
	Project 2131 transfer from COBRA Block II for Block I upgrades only			+ 9,626
86	Next Generation Logistics	1,071	6,071	+ 5,000
	Program increase: Predictive maintenance for Navy and Marine Corps weapons systems			+ 5,000
88	Rapid Technology Capability Prototype	6,555	11,555	+ 5,000
	Program increase: Rapid technology capability prototyping			+ 5,000
90	Advanced Undersea Prototyping	58,473	42,375	- 16,098
	ORCA payload capacity increase			- 8,908
	Development and testing of universal payload module			- 7,190
92	Precision Strike Weapons Development Program	97,944	103,944	+ 6,000
	Program increase: Neutron radiography technologies for energetic devices			+ 6,000
94	Offensive Anti-Surface Warfare Weapon Development	127,756	70,792	- 56,964
	Project 3343 lack of program justification			- 56,964
96	Unmanned Surface Vehicle Enabling Capabilities	170,838	164,178	- 6,660
	RAIL software factory acquisition strategy			- 6,660
99	Conventional Prompt Strike (CPS)	1,372,340	1,266,290	- 106,050
	Virginia Class submarine integration early to need			- 31,050
	Industrial base capacity expansion funding early to need			- 80,000
	Program increase: Cross-service hypersonic testing capabilities through advanced concepts technology evaluation			+ 5,000
107	Multi-Mission Helicopter Upgrade Development	46,418	54,418	+ 8,000
	Program increase: MH-60 capability upgrades			+ 8,000
111	Advanced Hawkeye	386,860	365,660	- 21,200
	Non-DSSC efforts unjustified growth except test asset viability			- 18,500
	DSSC 5 growth			- 22,700
	Program increase: Radar modernization and testing			+ 20,000
114	V-22A	107,984	112,234	+ 4,250
	Program increase: V-22 oil coolers			+ 4,250
121	Next Generation Jammer [NGJ] Increment II	248,096	146,596	- 101,500
	Contract award delays			- 101,500
122	Surface Combatant Combat System Engineering	371,575	327,054	- 44,521
	Baseline program adjustment			- 25,475
	FORGE software factory acquisition strategy			- 19,046
127	Naval Integrated Fire Control—Counter Air Systems Engineering	46,121	52,621	+ 6,500
	Program increase: Stratospheric balloons			+ 6,500
136	New Design SSN	503,252	573,938	+ 70,686
	Payload NRE excess to need			- 16,314
	Project 1947: Transfer to project XXX for SSN(X) acceleration only			- 186,300
	Project XXX: Transfer for SSN(X) acceleration only			+ 273,300
140	Mine Development	76,027	37,944	- 38,083

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Project 0267 Quickstrike-ER contract award delays			- 18,720
	Project 2993 Encapsulated effector contract award delays			- 19,363
146	Ship Self Defense (Detect & Control)	149,433	142,773	- 6,660
	FORGE software factory acquisition strategy			- 6,660
147	Ship Self Defense (Engage: Hard Kill)	87,862	79,454	- 8,408
	Project 0173 Mk9 CWTI replacement contract award delay			- 8,408
151	Navigation/ID System	48,837	50,037	+ 1,200
	Program increase: Navy micro interrogator			+ 1,200
156	Information Technology Development	243,828	245,979	+ 2,151
	Transfer from line 255			+ 2,151
158	TACAMO Modernization	150,592		- 150,592
	Program adjustment			- 150,592
159	CH-53K RDTE	256,903	241,618	- 15,285
	Poor funding execution			- 15,285
167	Multi-Mission Maritime [MMA] Increment III	173,784	162,884	- 10,900
	Engineering change proposal 6 unjustified growth			- 10,900
170	DDG-1000	112,576	98,505	- 14,071
	CPS design, integration and SSP support accelerated into fiscal year 2021			- 14,071
176	Threat Simulator Development	20,862	57,962	+ 37,100
	Program increase: C-band and S-band radar emulator upgrade for test infrastructure			+ 37,100
177	Target Systems Development	12,113	20,113	+ 8,000
	Program increase: Lab and test range upgrades—targets			+ 8,000
178	Major T&E Investment	84,617	105,617	+ 21,000
	Program increase: Cargo drone family of advanced batteries			+ 9,000
	Program increase: Lab and test range upgrades—targets			+ 12,000
184	Management, Technical & International Support	93,966	108,966	+ 15,000
	Program increase: Additive manufacturing research and education			+ 15,000
187	Test and Evaluation Support	429,277	446,277	+ 17,000
	Program increase: Innovation in the future workforce			+ 1,000
	Program increase: Lab and test range upgrades—targets			+ 16,000
191	Marine Corps Program Wide Support	47,042	33,042	- 14,000
	P3009 excess prototyping funds			- 14,000
199	Operational F-35 C2D2	515,746	425,786	- 89,960
	Unjustified program growth—excluding test and evaluation			- 89,960
200	Operational F-35 C2D2	481,962	397,882	- 84,080
	Unjustified program growth—excluding test and evaluation			- 84,080
201	Marine Corps Air Defense Weapons Systems (MARFORRES)	65,381	61,381	- 4,000
	Project 2278 MADIS Inc 2 early to need			- 4,000
203	Strategic Sub & Weapons System Support	177,098	162,646	- 14,452
	D5LE2 growth without acquisition strategy			- 40,452
	Program increase: Autonomous fiber optic sensing network			+ 5,000
	Program increase: Scalable very high temperature composite manufacturing			+ 6,000
	Program increase: Strategic weapons systems shipboard navigation system modernization			+ 15,000
207	F/A-18 Squadrons	189,224	179,599	- 9,625
	Project 1662 Digital video map computer upgrade contract award delay			- 14,625
	Program increase: Neural network algorithms on advanced processors			+ 5,000
213	Ground/Air Task Oriented Radar (G/ATOR)	21,367	68,367	+ 47,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: AN/TPS-80 Ground/ Air Task-Oriented Radar (G/ATOR) Naval Integrated Fire Control (NIFC)			+ 12,000
	Program increase: AN/TPS-80 Ground/ Air Task-Oriented Radar (G/ATOR) Radar Signal Processor Refresh			+ 12,000
	Program increase: AN/TPS-80 Ground/Air Task-Oriented Radar (G/ATOR) Air Traffic Control (ATC) Block IV Development			+ 23,000
222	Common Aviation Command and Control System (CAC2S)	9,324	12,869	+ 3,545
	Program increase: Common Aviation Command & Control System (CAC2S) Naval Integrated Fire Control (NIFC)			+ 3,545
241	MQ-8 UAV	26,543	33,543	+ 7,000
	Program increase: Data bus cybersecurity			+ 7,000
251	Depot Maintenance (Non-IF)	36,880	46,880	+ 10,000
	Program increase: High pressure cold spray			+ 10,000
999	Classified Programs	1,872,586	1,922,376	+ 49,790
	Classified adjustment			+ 49,790
255	Navy Next Generation Enterprise Network (NGEN)—Software Pilot Program	955,151		− 955,151
	Transfer to OMN, line BSIT			− 778,000
	Transfer to OPN, line 141			− 175,000
	Transfer to line 156			− 2,151

Land-Based Testing.—The fiscal year 2022 President’s budget request includes funds for no less than five different land-based test enterprises in support of four Navy acquisition programs, to include the Medium Unmanned Surface Vessel program, the Large Unmanned Surface Vessel program, the Next-Generation Guided-Missile destroyer program, and the CONSTELLATION Class program.

The Committee recognizes the value of, and supports, land-based testing to demonstrate maturity of critical technologies for major Navy acquisition programs prior to construction; however, the Committee is concerned by an apparent lack of coordination among the multitude of efforts, as well as the potential for disconnects between the land-based test sites and the acquisition programs they support, and recommends several adjustments, as detailed in the table of Committee Recommended Adjustments accompanying this section. Further, the Committee believes that costs to establish and operate land-based test sites should be included in programs’ acquisition costs estimates up front.

Next-Generation Guided-Missile Destroyer Program.—The fiscal year 2022 President’s budget request includes \$79,689,000, an increase of \$70,789,000 over amounts appropriated in fiscal year 2021, for preliminary design of a Next-Generation Guided-Missile destroyer, DDG(X), to enable the award of a Detailed Design and Construction contract in fiscal year 2026. The Committee notes that the Navy has not clearly explained the rationale for transitioning to a new class of large surface combatants [LSC] as the most modern DDG-51 Class destroyers are being constructed and enter the fleet. Further, the Committee does not have confidence in the Navy’s ability to manage the acquisition and contracting for a new class of LSC at this time. Therefore, the Committee recommendation does not support the requested increase. The Committee notes that in addition to the funds requested for

DDG(X) preliminary design in program element 0603564N, the Navy is requesting \$42,100,000 in program element 0603573N for the Integrated Power and Energy System Test Facility for design, prototyping and land-based testing of potential future LSC power and propulsion systems, and recommends full funding for those efforts.

Software Factories.—The fiscal year 2022 President’s budget request includes \$72,760,000 to establish no less than 3 “software factories” that would provide a software pipeline for continuous development, integration, deployment, and upgrades of software into multiple unmanned and manned undersea and surface Navy programs. The Committee believes in the necessity of establishing such a capability; however, the Committee is concerned by the lack of coordination and potential for duplication of efforts among various elements of the Navy’s acquisition enterprise, as well as by the Navy’s apparent over-reliance on commercial industry for certain oversight and program management functions.

The Committee directs the Assistant Secretary of the Navy (Research, Development and Acquisition) to review the Navy’s plans for software factories across the enterprise. Further, with submission of the fiscal year 2023 President’s budget request, the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees an analysis and recommendation of inherently governmental versus commercial industry roles with regards to software and autonomous intelligence development, integration, and operation for Navy programs, as well as an assessment of the current Navy workforce and, if required, a strategy for developing and retaining the required Navy workforce.

Self-Defense Test Ship.—The fiscal year 2022 President’s budget request includes \$15,061,000 in program element 0605863N primarily to operate and maintain the Ex-PAUL F. FOSTER, the Navy’s Self-Defense Test Ship [SDTS]. The Committee notes that the Navy has operated a SDTS since 1996 to conduct operationally realistic testing that is otherwise prohibited on manned ships. Further, the Committee understands that the current SDTS is projected to no longer be in a ready state beyond fiscal year 2025, and that the Navy is evaluating several courses of action to meet the requirement for a SDTS going forward, including the conversion of a decommissioned Navy asset.

The Committee recommends full funding for the SDTS in fiscal year 2022 and directs the Director, Navy Innovation, Technology Requirements and Test and Evaluation to submit to the congressional defense committees, with submission of the fiscal year 2023 President’s budget request, the Navy’s strategy for the SDTS beyond fiscal year 2025, to include an evaluation of different courses of action under consideration and their associated funding requirements by fiscal year across the Future Years Defense Program. Further, the Director, Operational Test and Evaluation [DOTE] is directed to provide to the congressional defense committees not later than 30 days thereafter DOTE’s assessment of the Navy’s strategy with respect to impacts on approved Test and Evaluation Master Plans and test strategies for Navy acquisition programs.

Large Displacement Unmanned Undersea Vehicle.—The fiscal year 2022 President’s budget request includes \$29,080,000 for Phase 2 of the Large Displacement Unmanned Undersea Vehicle [LDUUV], which is the planned transition to industry of the previously funded Phase 1 design for the fabrication of no less than one additional LDUUV. The Committee notes that with submission of the fiscal year 2022 President’s budget request, the Navy terminated the Payload Handling System, which was intended to launch LDUUV from a VIRGINIA Class submarine, thereby limiting LDUUV deployment opportunities. Further, the Committee notes that the Navy has delayed the Phase 2 contract award from fiscal year 2021 into fiscal year 2022, and that the Navy is reconsidering the LDUUV program. Therefore, the Committee recommends no funds for a LDUUV Phase 2 contract award and designates unobligated fiscal year 2021 funds appropriated for LDUUV, as well as fiscal year 2022 Phase 1 funds as congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414).

Extra Large Unmanned Undersea Vehicle.—The fiscal year 2022 President’s budget request includes \$58,173,000 to continue manufacturing and testing of 5 Extra Large Unmanned Undersea Vehicles [XLUUV]. With submission of the budget request, the Navy informed the congressional defense committees of schedule delays of no less than 2 fiscal quarters in addition to an 18-month-delay previously revealed with the fiscal year 2021 President’s budget request; and that the program will need to be restructured. The Committee is concerned, therefore, that with the fiscal year 2022 request, the Navy is requesting funds for additional XLUUV requirements such as an increased payload capacity and a new payload module, when the baseline program is performing poorly. The Committee recommends no funds to increase payload capacity or for the universal payload in fiscal year 2022, a reduction of \$8,908,000 and \$7,190,000 to the request, respectively.

The XLUUV program was awarded in response to a Joint Emergent Operational Need using rapid acquisition authorities, and given the urgency of the requirement, the Committee questions the Navy’s analytical and engineering rigor conducted prior to program initiation. The Committee directs the Comptroller General to review the Navy’s adherence to acquisition best practices for the XLUUV program, as adapted for rapid acquisition programs, and report back to the congressional defense committees no later than 90 days after enactment of this act.

Basing of Unmanned Undersea Vehicles.—The Committee directs the Secretary of the Navy to provide to the congressional defense committees, with submission of the fiscal year 2023 President’s budget request, a report detailing the Navy’s plans for basing Navy unmanned undersea vehicles [UUVs], to include the infrastructure, personnel, and logistical requirements for testing, evaluation, docking, and maintenance of UUVs.

E-6B Replacement.—The fiscal year 2022 President’s budget request includes \$150,592,000 for a new start program, E-XX, that would replace only the strategic communications [TACAMO] mission of the E-6B Mercury fleet. The Committee understands that the United States Strategic Command is conducting a study re-

garding the E-6B's second mission of airborne command post [ABCNP] that is scheduled to complete in 2024. The Committee further understands that based on the Navy's E-XX acquisition strategy to replace the E-6B Mercury fleet with a smaller airframe, the decision to eliminate the ABCNP mission is irreversible.

The Committee notes that while E-XX is requested as a new start program in the fiscal year 2022 President's budget request, the program is not fully funded, and the Navy has an unfunded requirement of \$367,200,000 in fiscal year 2022. Further, the Committee notes that the Navy intends to utilize acquisition authorities not originally intended for such an acquisition program, which the Committee does not believe is justified in this instance. Finally, the Committee notes that the E-6B Mercury fleet is currently undergoing a Service Life Extension Program which makes the Navy's E-XX program significantly early to need. Therefore, the Committee recommends no funding for E-XX in fiscal year 2022.

Conventional Prompt Strike and DDG-1000.—With submission of the fiscal year 2022 President's budget request, the Navy announced a change to its fielding plans of a conventional prompt strike [CPS] capability to the fleet. While the Navy remains committed to supporting the fielding of an Army prototype in fiscal year 2023, the Navy will no longer deploy CPS on OHIO Class guided-missile submarines. Instead, the Navy is prioritizing integration of CPS onto the ZUMWALT Class DDG-1000. The Committee understands that the Navy has conducted a cost estimate for this revised fielding strategy and plans to fully fund this development, integration, and fielding effort across the Future Years Defense Program beginning in fiscal year 2022. The Committee supports these efforts.

The Committee notes that in fiscal year 2021, the Navy intended to integrate the Maritime Strike Tomahawk onto DDG-1000 as part of a surface strike package. The Committee further notes that the Navy terminated those efforts following enactment of the Department of Defense Appropriations Act, 2021 (Public Law 116-260), reallocated \$11,800,000 of funds appropriated for Tomahawk integration to CPS integration, and augmented those efforts with an additional \$2,300,000. These additional funds are not accounted for in the Navy's cost estimate for CPS integration onto DDG-1000 beginning in fiscal year 2022. Therefore, the Committee recommends a reduction of \$14,071,000 in fiscal year 2022.

Office of Naval Research Budget Structure and Budget Justification Materials.—The Committee notes the improvement to the budget materials for the Office of Naval Research and encourages continued focus on content and format. In particular, this includes timely and contextualized delivery of classified project-specific information required by the congressional defense committees for their budget review concurrent with submission of the President's budget in the appropriate format.

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.

Increased Access to Ocean Data.—As part of broader efforts to standardize and make available oceanographic data, the Committee encourages the Secretary of the Navy to take the steps necessary to ensure the release of and public access to unclassified and declassified oceanographic data, subject to existing regulatory restrictions.

Engineered Systems To Preserve And Restore Hearing.—The Committee supports the Department’s noise induced hearing loss research and development initiatives and recommends an increase of \$5,000,000 to expand work in this program, including the research and development of a novel technologies to avoid temporary or permanent hearing loss.

Ocean Acoustics.—The Committee notes that changes to ocean environments and coastlines will create new security concerns. The Committee encourages 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 \$20,000,000 to build stronger partnerships between Navy research labs, warfighters, academia, and industry. The Committee directs the Navy to coordinate this effort with its industrial base partners to ensure that funded academic research projects are relevant to specific research, engineering, and manufacturing needs, as well as defined systems capabilities. The Committee further directs that partnerships with academia shall focus on the specific submarine and autonomous undersea vehicle research needs, undersea technology acceleration, and transition, and workforce development to ensure a sustainable undersea industrial base. Projects funded under this initiative should also focus on leveraging investments across the public and private sectors in dual use technology areas through collaborative efforts aligning the undersea ecosystem.

AI-Powered Tactical ISR.—The Committee understands the importance of tactical intelligence, surveillance, and reconnaissance [ISR] capabilities for soldiers and marines. Further, the Committee notes the recommendations of the National Security Commission on Artificial Intelligence [AI] to “develop artificial intelligence, machine learning and associated technologies in the US to comprehensively address the national security and defense needs of the US” in this domain. The Committee recommends \$5,100,000 for the Marine Corps to field an edge-capable, AI-powered tactical ISR solution. The Committee believes the software should be of sufficient capability to produce two- and three-dimensional maps of a battlespace and that processing should be able to be conducted without a “backhaul” or cloud connection. Finally, software should be interoperable with Group 1-5 unmanned aerial systems and with existing imaging payloads, to include deployability and operability on mobile devices already in the end-user inventory.

Naval Expeditionary Sustainment and Repair-related Technologies.—The Committee notes that advances in technologies such as robotics, artificial intelligence, machine learning, and advanced manufacturing create new capabilities that allow the fleet to better predict, evaluate, and plan for sustainment or battle damage repair to improve military readiness of the fleet. The Committee supports

investments that align technology-based solutions with expeditionary shipboard sustainment and repair concepts of operations to improve warship resiliency, lethality, and availability.

Underwater Port and Harbor Surveillance Research.—The Committee is concerned about the threat posed by adversarial divers, unmanned underwater vehicles, or underwater drones, which are easily available on the commercial market and can threaten U.S. ports and harbors at home and abroad. This technology has the potential to proliferate and pose significant risk to commercial shipping lanes, critical infrastructure, and military bases around the world that host U.S. Navy assets. Therefore, the Committee encourages the Chief, Naval Research to continue to conduct research that addresses robust underwater surveillance of ports and harbors.

Rapid Technology Capability Prototyping.—The Committee supports the Marine Corps Warfighting Laboratory's [MCWL] continued use of a Department of Defense national partnership intermediary as defined in 15 U.S.C. 3715 and 10 U.S.C. 2368 to support MCWL's ability to seek out, assess, and engage non-traditional small business vendors into MCWL's technology scouting, rapid capabilities development, rapid prototyping, and technology forecasting efforts, and recommends \$5,000,000 for this effort.

The Committee believes that in addition to broadening MCWL's field of available vendor capabilities, funds should be utilized whenever possible to speed development and lay the groundwork for future transition of new technologies and capabilities into the acquisition process. Further, the Committee believes that expanding the availability of highly qualified non-traditional manufacturers within MCWL's support base will broaden the national industrial base and bring improved solutions and equipment to the individual Marine and Marine units faster. The Committee expects MCWL to include funding for use of a Partnership Intermediary in future budget submissions.

Portable In-Situ Repair technologies.—The Committee recognizes the considerable maintenance and repair efficiencies and cost savings gained by the Navy when utilizing solid state particle deposition capabilities pier side. The Committee therefore encourages a robust research effort that cross cuts all areas of implementation and utilization for in-situ repair systems for ship and submarine maintenance and repair.

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 facili-

ties and activities in coordination with other Federal agencies and entities.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

Budget estimate, 2022 \$39,184,328,000
 Committee recommendation 40,098,662,000

The Committee recommends an appropriation of \$40,098,662,000. This is \$914,334,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE			
	BASIC RESEARCH			
1	DEFENSE RESEARCH SCIENCES	328,303	403,303	+ 75,000
2	UNIVERSITY RESEARCH INITIATIVES	162,403	262,403	+ 100,000
	TOTAL, BASIC RESEARCH	490,706	665,706	+ 175,000
	APPLIED RESEARCH			
4	FUTURE AF CAPABILITIES APPLIED RESEARCH	79,901	79,901	.....
5	MATERIALS	113,460	165,960	+ 52,500
6	AEROSPACE VEHICLE TECHNOLOGIES	163,032	163,032	.....
7	HUMAN EFFECTIVENESS APPLIED RESEARCH	136,273	146,273	+ 10,000
8	AEROSPACE PROPULSION	174,683	174,683	.....
9	AEROSPACE SENSORS	193,514	230,918	+ 37,404
11	SCIENCE AND TECHNOLOGY MANAGEMENT—MAJOR HEAD- QUARTERS	8,891	8,891	.....
12	CONVENTIONAL MUNITIONS	151,757	151,757	.....
13	DIRECTED ENERGY TECHNOLOGY	121,869	116,465	- 5,404
14	DOMINANT INFORMATION SCIENCES AND METHODS	169,110	211,110	+ 42,000
	TOTAL, APPLIED RESEARCH	1,312,490	1,448,990	+ 136,500
	ADVANCED TECHNOLOGY DEVELOPMENT			
17	FUTURE AF INTEGRATED TECHNOLOGY DEMOS	131,643	67,633	- 64,010
18	ADVANCED MATERIALS FOR WEAPON SYSTEMS	31,905	48,705	+ 16,800
19	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T)	21,057	21,057	.....
20	ADVANCED AEROSPACE SENSORS	44,730	45,464	+ 734
21	AEROSPACE TECHNOLOGY DEV/DEMO	70,486	70,486	.....
22	AEROSPACE PROPULSION AND POWER TECHNOLOGY	75,273	85,273	+ 10,000
23	ELECTRONIC COMBAT TECHNOLOGY	46,591	46,591	.....
26	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOP- MENT	24,589	24,589	.....
27	CONVENTIONAL WEAPONS TECHNOLOGY	157,423	157,423	.....
28	ADVANCED WEAPONS TECHNOLOGY	28,258	33,258	+ 5,000
29	MANUFACTURING TECHNOLOGY PROGRAM	45,259	86,259	+ 41,000
30	BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION	56,772	61,772	+ 5,000
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	733,986	748,510	+ 14,524
	ADVANCED COMPONENT DEVELOPMENT			
31	INTELLIGENCE ADVANCED DEVELOPMENT	5,795	5,795	.....
32	COMBAT IDENTIFICATION TECHNOLOGY	21,939	21,939	.....
33	NATO RESEARCH AND DEVELOPMENT	4,114	4,114	.....
34	INTERCONTINENTAL BALLISTIC MISSILE—DEM/VAL	49,621	53,221	+ 3,600
36	NC3 ADVANCED CONCEPTS	6,900	6,900	.....
37	AIR FORCE WEATHER SERVICES RESEARCH	986	986	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
38	ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS)	203,849	268,849	+ 65,000
39	ADVANCED ENGINE DEVELOPMENT	123,712	663,712	+ 540,000
40	ARCHITECTURE INITIATIVES	82,438	29,138	- 53,300
41	LONG RANGE STRIKE	2,872,624	2,872,624	.....
42	DIRECTED ENERGY PROTOTYPING	10,820	10,820	.....
43	HYPERSONICS PROTOTYPING	438,378	.....	- 438,378
43A	HYPERSONICS PROTOTYPING—AIR LAUNCHED RAPID RESPONSE WEAPON (ARRW) .....	.....	238,262	+ 238,262
43B	HYPERSONICS PROTOTYPING—HYPERSONIC ATTACK CRUISE MISSILE (HACM) .....	.....	200,116	+ 200,116
44	PNT RESILIENCY, MODS AND IMPROVEMENTS	39,742	39,742	.....
45	ADVANCED TECHNOLOGY AND SENSORS	23,745	23,745	.....
46	SURVIVABLE AIRBORNE OPERATIONS CENTER	133,253	95,788	- 37,465
47	TECHNOLOGY TRANSFER	15,768	56,768	+ 41,000
48	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM	15,886	12,886	- 3,000
49	CYBER RESILIENCY OF WEAPON SYSTEMS-ACS	71,229	71,229	.....
50	DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D	40,103	40,103	.....
51	TECH TRANSITION PROGRAM	343,545	299,545	- 44,000
51A	OPERATIONAL ENERGY AND INSTALLATION RESILIENCE .....	.....	49,000	+ 49,000
52	GROUND BASED STRATEGIC DETERRENT	2,553,541	2,553,541	.....
54	NEXT GENERATION AIR DOMINANCE	1,524,667	1,524,667	.....
56	AIRBASE AIR DEFENSE SYSTEMS (ABADS)	10,905	10,905	.....
57	WAR RESERVE MATERIEL—AMMUNITION	3,943	3,943	.....
59	COMMON DATA LINK EXECUTIVE AGENT (CDL EA)	43,881	43,881	.....
61	MISSION PARTNER ENVIRONMENTS	16,420	16,420	.....
62	CYBER OPERATIONS TECHNOLOGY SUPPORT	242,499	242,499	.....
63	ENABLED CYBER ACTIVITIES	16,578	16,578	.....
65	RAPID SUSTAINMENT MODERNIZATION (RSM) .....	.....	27,000	+ 27,000
66	CONTRACTING INFORMATION TECHNOLOGY SYSTEM	20,343	20,343	.....
	TOTAL, ADVANCED COMPONENT DEVELOPMENT	8,937,224	9,525,059	+ 587,835
	SYSTEM DEVELOPMENT & DEMONSTRATION			
78	FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS	23,499	23,499	.....
79	PNT RESILIENCY, MODS AND IMPROVEMENTS	167,520	163,520	- 4,000
80	NUCLEAR WEAPONS SUPPORT	30,050	30,050	.....
81	ELECTRONIC WARFARE DEVELOPMENT	2,110	2,110	.....
82	TACTICAL DATA NETWORKS ENTERPRISE	169,836	169,836	.....
83	PHYSICAL SECURITY EQUIPMENT	8,469	8,469	.....
85	ARMAMENT/ORDNANCE DEVELOPMENT	9,047	9,047	.....
86	SUBMUNITIONS	2,954	2,954	.....
87	AGILE COMBAT SUPPORT	16,603	24,603	+ 8,000
89	LIFE SUPPORT SYSTEMS	25,437	25,437	.....
90	COMBAT TRAINING RANGES	23,980	23,980	.....
92	LONG RANGE STANDOFF WEAPON	609,042	609,042	.....
93	ICBM FUZE MODERNIZATION	129,709	129,709	.....
95	OPEN ARCHITECTURE MANAGEMENT	37,109	37,109	.....
96	KC-46	1	.....	- 1
97	ADVANCED PILOT TRAINING	188,898	188,898	.....
98	COMBAT RESCUE HELICOPTER HH-60W	66,355	62,255	- 4,100
101	F-15 EPAWSS	112,012	112,012	.....
102	STAND IN ATTACK WEAPON	166,570	166,570	.....
103	FULL COMBAT MISSION TRAINING	7,064	7,064	.....
105	KC-46A TANKER SQUADRONS	73,458	73,458	.....
107	VC-25B	680,665	655,665	- 25,000
108	AUTOMATED TEST SYSTEMS	15,445	15,445	.....
109	TRAINING DEVELOPMENTS	4,482	4,482	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	2,570,315	2,545,214	- 25,101
	MANAGEMENT SUPPORT			
124	THREAT SIMULATOR DEVELOPMENT	41,909	41,909	.....
125	MAJOR T&E INVESTMENT	130,766	130,766	.....
126	RAND PROJECT AIR FORCE	36,017	36,017	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
128	INITIAL OPERATIONAL TEST & EVALUATION	12,582	12,582	.....
129	TEST AND EVALUATION SUPPORT	811,032	811,032	.....
131	ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS	243,796	267,919	+ 24,123
132	ACQ WORKFORCE- GLOBAL REACH	435,930	429,659	- 6,271
133	ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS	435,274	439,571	+ 4,297
135	ACQ WORKFORCE- CAPABILITY INTEGRATION	243,806	263,014	+ 19,208
136	ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY	103,041	62,755	- 40,286
137	ACQ WORKFORCE- NUCLEAR SYSTEMS	226,055	227,425	+ 1,370
138	MANAGEMENT HQ—R&D	4,079	5,537	+ 1,458
139	FACILITIES RESTORATION & MODERNIZATION—TEST & EVAL	70,788	70,788	.....
140	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT	30,057	30,057	.....
141	REQUIREMENTS ANALYSIS AND MATURATION	85,799	90,799	+ 5,000
142	MANAGEMENT HQ—T&E	6,163	6,163	.....
143	SUPPORT TO INFORMATION OPERATIONS [IO] CAPABILITIES ..	537	537	.....
144	COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS (C4)—STRATCOM	25,340	25,340	.....
145	ENTERPRISE INFORMATION SERVICES (EIS)	28,720	26,720	- 2,000
146	ACQUISITION AND MANAGEMENT SUPPORT	37,211	37,211	.....
147	GENERAL SKILL TRAINING	1,506	1,506	.....
148	TRAINING DEVELOPMENTS	2,957	2,957	.....
150	INTERNATIONAL ACTIVITIES	2,420	2,420	.....
156	SPACE TEST PROGRAM (STP)	3	3	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	3,015,788	3,022,687	+ 6,899
	OPERATIONAL SYSTEMS DEVELOPMENT			
157	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	5,509	5,509	.....
158	WIDE AREA SURVEILLANCE	2,760	2,760	.....
160	F-35 C2D2	985,404	813,444	- 171,960
161	AF INTEGRATED PERSONNEL AND PAY SYSTEM (AF-IPPS)	22,010	22,010	.....
162	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	51,492	51,492	.....
163	FOREIGN MATERIEL ACQUISITION AND EXPLOITATION	71,391	71,391	.....
164	HC/MC-130 RECAP RDT&E	46,796	46,796	.....
165	NC3 INTEGRATION	26,532	26,532	.....
167	B-52 SQUADRONS	715,811	701,811	- 14,000
168	AIR-LAUNCHED CRUISE MISSILE [ALCM]	453	453	.....
169	B-1B SQUADRONS	29,127	29,127	.....
170	B-2 SQUADRONS	144,047	144,047	.....
171	MINUTEMAN SQUADRONS	113,622	113,622	.....
172	WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	15,202	15,202	.....
174	ICBM REENTRY VEHICLES	96,313	96,313	.....
176	UH-1N REPLACEMENT PROGRAM	16,132	16,132	.....
177	REGION/SECTOR OPERATION CONTROL CENTER MODERNIZA- TION	771	771	.....
178	NORTH WARNING SYSTEM (NWS)	99	99	.....
179	OVER-THE-HORIZON BACKSCATTER RADAR	42,300	67,400	+ 25,100
180	VEHICLES AND SUPPORT EQUIPMENT —GENERAL	5,889	5,889	.....
181	MQ-9 UAV	85,135	80,135	- 5,000
182	JOINT COUNTER RCIED ELECTRONIC WARFARE	3,111	3,111	.....
183	MULTI-PLATFORM ELECTRONIC WARFARE EQUIPMENT	36,607	36,607	.....
184	A-10 SQUADRONS	39,224	34,224	- 5,000
185	F-16 SQUADRONS	224,573	220,573	- 4,000
186	F-15E SQUADRONS	239,616	239,616	.....
187	MANNED DESTRUCTIVE SUPPRESSION	15,855	15,855	.....
188	F-22 SQUADRONS	647,296	647,296	.....
189	F-35 SQUADRONS	69,365	69,365	.....
190	F-15EX	118,126	107,126	- 11,000
191	TACTICAL AIM MISSILES	32,974	32,974	.....
192	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	51,288	51,288	.....
193	COMBAT RESCUE—PARARESCUE	852	852	.....
194	AF TENCAP	23,685	23,685	.....
195	PRECISION ATTACK SYSTEMS PROCUREMENT	12,083	12,083	.....
196	COMPASS CALL	91,266	91,266	.....
197	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	103,715	114,715	+ 11,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
198	JOINT AIR-TO-SURFACE STANDOFF MISSILE [JASSM]	117,325	107,325	- 10,000
199	SMALL DIAMETER BOMB [SDB]	27,109	32,109	+ 5,000
200	AIR AND SPACE OPERATIONS CENTER [AOC]	3	90,027	+ 90,024
201	CONTROL AND REPORTING CENTER [CRC]	9,875	9,875	.....
202	AIRBORNE WARNING AND CONTROL SYSTEM [AWACS]	171,014	167,014	- 4,000
203	TACTICAL AIRBORNE CONTROL SYSTEMS AFSPECWAR—TACP	4,598	4,598	.....
205	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	21,863	21,863	.....
206	THEATER BATTLE MANAGEMENT [TBM] C41	7,905	7,905	.....
207	ELECTRONIC WARFARE INTEGRATED REPROGRAMMING (EWIR)	15,000	15,000	.....
208	TACTICAL AIR CONTROL PARTY--MOD	13,081	13,081	.....
209	DCAPES	4,305	4,305	.....
210	AIR FORCE CALIBRATION PROGRAMS	1,984	1,984	.....
211	AIRBASE AIR DEFENSE SYSTEMS (ABADS)	7,392	7,392	.....
212	NATIONAL TECHNICAL NUCLEAR FORENSICS	1,971	1,971	.....
213	SEEK EAGLE	30,539	30,539	.....
214	USAF MODELING AND SIMULATION	17,110	17,110	.....
215	WARGAMING AND SIMULATION CENTERS	7,535	7,535	.....
216	BATTLEFIELD ABN COMM NODE (BACN)	32,008	30,008	- 2,000
217	DISTRIBUTED TRAINING AND EXERCISES	4,007	4,007	.....
218	MISSION PLANNING SYSTEMS	92,557	96,057	+ 3,500
219	TACTICAL DECEPTION	489	7,489	+ 7,000
220	OPERATIONAL HG—CYBER	2,115	2,115	.....
221	DISTRIBUTED CYBER WARFARE OPERATIONS	72,487	72,487	.....
222	AF DEFENSIVE CYBERSPACE OPERATIONS	18,449	18,449	.....
223	JOINT CYBER COMMAND AND CONTROL (JCC2)	79,079	79,079	.....
224	UNIFIED PLATFORM (UP)	101,893	91,893	- 10,000
228	INTEL DATA APPLICATIONS	493	493	.....
229	GEOBASE	2,782	2,782	.....
230	STRATEGIC MISSION PLANNING AND EXECUTION SYSTEM— SOFTWARE PILOT PROGRAM .....	.....	44,684	+ 44,684
231	CYBER SECURITY INTELLIGENCE SUPPORT	5,224	5,224	.....
238	AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS	2,463	2,463	.....
239	E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC)	26,331	26,331	.....
240	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NET- WORK	20,700	58,165	+ 37,465
242	INFORMATION SYSTEMS SECURITY PROGRAM	8,032	8,032	.....
243	GLOBAL FORCE MANAGEMENT—DATA INITIATIVE	452	452	.....
244	ALL DOMAIN COMMON PLATFORM	64,000	64,000	.....
246	AIRBORNE SIGINT ENTERPRISE	97,546	97,546	.....
247	COMMERCIAL ECONOMIC ANALYSIS	3,770	3,770	.....
251	CCMD INTELLIGENCE INFORMATION TECHNOLOGY	1,663	1,663	.....
252	ISR MODERNIZATION & AUTOMATION DVMT (IMAD)	18,888	18,888	.....
253	GLOBAL AIR TRAFFIC MANAGEMENT (GATM)	4,672	4,672	.....
254	CYBER SECURITY INITIATIVE	290	290	.....
255	WEATHER SERVICE	26,228	27,228	+ 1,000
256	AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC)	8,749	13,749	+ 5,000
257	AERIAL TARGETS	1,528	1,528	.....
258	SECURITY AND INVESTIGATIVE ACTIVITIES	223	223	.....
260	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	8,733	8,733	.....
264	INTEGRATED BROADCAST SERVICE	21,335	21,335	.....
265	DRAGON U-2	17,146	17,146	.....
267	AIRBORNE RECONNAISSANCE SYSTEMS	71,791	149,191	+ 77,400
268	MANNED RECONNAISSANCE SYSTEMS	14,799	14,799	.....
269	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	24,568	24,568	.....
270	RQ-4 UAV	83,124	83,124	.....
271	NETWORK-CENTRIC COLLABORATIVE TARGET [TIARA]	17,224	17,224	.....
272	NATO AGS	19,473	19,473	.....
273	SUPPORT TO DCGS ENTERPRISE	40,421	40,421	.....
274	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITEC- TURES	14,473	14,473	.....
275	RAPID CYBER ACQUISITION	4,326	4,326	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
276	PERSONNEL RECOVERY COMMAND & CTRL (PRC2)	2,567	2,567	.....
277	INTELLIGENCE MISSION DATA (IMD)	6,169	6,169	.....
278	C-130 AIRLIFT SQUADRON	9,752	9,752	.....
279	C-5 AIRLIFT SQUADRONS	17,507	17,507	.....
280	C-17 AIRCRAFT	16,360	16,360	.....
281	C-130J PROGRAM	14,112	14,112	.....
282	LARGE AIRCRAFT IR COUNTERMEASURES [LAIRCM]	5,540	5,540	.....
283	KC-135S	3,564	3,564	.....
285	CV-22	17,189	17,189	.....
286	SPECIAL TACTICS / COMBAT CONTROL	6,640	6,640	.....
288	MAINTENANCE, REPAIR & OVERHAUL SYSTEM	26,921	26,921	.....
289	LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	7,071	7,071	.....
291	OTHER FLIGHT TRAINING	1,999	1,999	.....
293	JOINT PERSONNEL RECOVERY AGENCY	1,841	1,841	.....
294	CIVILIAN COMPENSATION PROGRAM	3,560	3,560	.....
295	PERSONNEL ADMINISTRATION	3,368	3,368	.....
296	AIR FORCE STUDIES AND ANALYSIS AGENCY	1,248	1,248	.....
297	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	4,852	4,852	.....
298	DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS) .....	.....	54,400	+ 54,400
301	SERVICE SUPPORT TO SPACECOM ACTIVITIES	6,737	6,737	.....
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	5,836,568	5,961,181	+ 124,613
9999	CLASSIFIED PROGRAMS	15,868,973	16,181,315	+ 312,342
	STRATEGIC MISSION PLANNING AND EXECUTION SYSTEM—SOFTWARE PILOT PROGRAM	96,100	.....	- 96,100
	AIR & SPACE OPERATIONS CENTER [AOC]—SOFTWARE PILOT PROGRAM	186,915	.....	- 186,915
	DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS)—SOFTWARE PILOT PRO	135,263	.....	- 135,263
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE	39,184,328	40,098,662	+ 914,334

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Defense Research Sciences	328,303	403,303	+ 75,000
	Program increase: Basic research .....	.....	.....	+ 75,000
2	University Research Initiatives	162,403	262,403	+ 100,000
	Program increase: Defense university research instrumentation program .....	.....	.....	+ 100,000
5	Materials	113,460	165,960	+ 52,500
	Program increase: Additive manufacturing of alloys .....	.....	.....	+ 10,000
	Program increase: Born qualified additive manufacturing .....	.....	.....	+ 10,000
	Program increase: High energy synchrotron x-ray research .....	.....	.....	+ 8,500
	Program increase: Photonic radio frequency CM .....	.....	.....	+ 10,000
	Program increase: Stealth aircraft coatings research .....	.....	.....	+ 4,000
	Program increase: Thermal protection for hypersonic vehicles .....	.....	.....	+ 10,000
7	Human Effectiveness Applied Research	136,273	146,273	+ 10,000
	Program increase: F-35 helmet mounted display .....	.....	.....	+ 3,000
	Program increase: Pilot hypoxia detection and notification .....	.....	.....	+ 7,000
9	Aerospace Sensors	193,514	230,918	+ 37,404

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Air Force requested transfer from line 13			+ 5,404
	Program increase: Zero-trust environment for semiconductor technology			+ 6,000
	Program increase: Extreme wideband RF sensor			+ 19,000
	Program increase: Reliability of combat cloud communications systems			+ 7,000
13	Directed Energy Technology	121,869	116,465	- 5,404
	Air Force requested transfer to line 9			- 5,404
14	Dominant Information Sciences and Methods	169,110	211,110	+ 42,000
	Program increase: Quantum network testbed			+ 10,000
	Program increase: Photonic quantum computing			+ 25,000
	Program increase: Quantum internet battlefield			+ 7,000
17	Future AF Integrated Technology Demos	131,643	67,633	- 64,010
	Transfer to RDTE, SF line 1a for Natigational Technology Satellite3 (NTS-3)			- 16,110
	Transfer to RDTE, SF line 1a for Rocket Cargo			- 28,900
	Program growth: Rocket Cargo			- 19,000
18	Advanced Materials for Weapon Systems	31,905	48,705	+ 16,800
	Program increase: Certification for advanced materials			+ 15,000
	Program increase: Laser protective eyewear			+ 1,800
20	Advanced Aerospace Sensors	44,730	45,464	+ 734
	Air Force requested transfer from RDTE, SF line 2			+ 734
22	Aerospace Propulsion and Power Technology	75,273	85,273	+ 10,000
	Program increase: Silicon carbide research			+ 10,000
28	Advanced Weapons Technology	28,258	33,258	+ 5,000
	Program increase: LIDAR CUAS automated target recognition			+ 5,000
29	Manufacturing Technology Program	45,259	86,259	+ 41,000
	Program increase: Affordable manufacture of resistive films			+ 10,000
	Program increase: Automated fiber placement for composite structures			+ 5,000
	Program increase: Rapid large format metal additive manufacturing to optimize scramjet production			+ 5,000
	Program increase: Sustainment and modernization research and development program			+ 10,000
	Program increase: Universal robotic controller			+ 6,000
	Program increase: Virtual, augmented, and mixed reality readiness			+ 5,000
30	Battlespace Knowledge Development and Demonstration	56,772	61,772	+ 5,000
	Program increase: Command and control capability development and deployment			+ 5,000
34	Intercontinental Ballistic Missile—Dem/Val	49,621	53,221	+ 3,600
	Long Range Planning early to need			- 23,400
	Program increase: ICBM mission enhancements			+ 27,000
38	Advanced Battle Management System (ABMS)	203,849	268,849	+ 65,000
	Program increase			+ 15,000
	Program increase: Digital infrastructure			+ 50,000
39	Advanced Engine Development	123,712	663,712	+ 540,000
	Program increase: AETP			+ 460,000
	Program increase: Engine vendor enhancements			+ 80,000
40	Architecture Initiatives	82,438	29,138	- 53,300
	Architecture demonstration and evaluation excess to need			- 53,300
43	Hypersonics Prototyping	438,378		- 438,378
	Transfer ARRW funding to new line 43A			- 238,262
	Transfer HACM funding to new line 43B			- 200,116
43A	Hypersonics prototyping: Air Launched Rapid Response Weapon		238,262	+ 238,262
	Transfer from line 43 for greater transparency and budget discipline			+ 238,262
43B	Hypersonic Prototyping: Hypersonic Attack Cruise Missile		200,116	+ 200,116

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Transfer from line 43 for greater transparency and budget discipline			+ 200,116
46	Survivable Airborne Operations Center	133,253	95,788	- 37,465
	Air Force requested transfer to line 240 for common VLF/LF receiver Incr 2			- 37,465
47	Technology Transfer	15,768	56,768	+ 41,000
	Program increase: Technology transfer			+ 7,000
	Program increase: Academic partnership intermediary agreement tech transfer			+ 10,000
	Program increase: Partnership Intermediary Agreements			+ 4,000
	Program increase: Digital part transformation to support operational readiness			+ 20,000
48	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	15,886	12,886	- 3,000
	Unexecuted prior year balances			- 3,000
51	Tech Transition Program	343,545	299,545	- 44,000
	Transfer to RDTE, SF line 2a for Global Lightning			- 28,800
	Transfer to RDTE, SF line 2a for Navigation Technology Satellite 3 (NTS-3)			- 5,200
	Transfer to line 51A Operational Energy Efforts			- 34,000
	Prototyping program growth			- 23,000
	MC-130 Amphibious capability experimentation			- 11,000
	Program increase: Agility Prime			+ 54,000
	Program increase: Logistics enhancements			+ 4,000
51A	Operational Energy and Installation Resilience		49,000	+ 49,000
	Program increase: Energy and climate resilience			+ 15,000
	Transfer from Line 51 for Operational Energy Efforts ..			+ 34,000
65	Rapid Sustainment Modernization (RSM)		27,000	+ 27,000
	Program increase: Additive manufacturing with integrated digital engineering			+ 5,000
	Program increase: Additive manufacturing			+ 16,000
	Program increase: Research for rapid repair and sustainability			+ 6,000
79	PNT Resiliency, Mods, and Improvements	167,520	163,520	- 4,000
	Reduce program growth			- 4,000
87	Agile Combat Support	16,603	24,603	+ 8,000
	Program increase: Carbon materials			+ 3,000
	Program increase: Modern timber products for expeditionary construction			+ 5,000
96	KC-46	1		- 1
	Programing error			- 1
98	HH-60W	66,355	62,255	- 4,100
	Contract award delays			- 4,100
107	VC-25B	680,665	655,665	- 25,000
	Program delays			- 25,000
131	Acq Workforce- Global Vig & Combat Sys	243,796	267,919	+ 24,123
	Air Force requested realignment			+ 24,123
132	Acq Workforce- Global Reach	435,930	429,659	- 6,271
	Air Force requested realignment			- 6,271
133	Acq Workforce- Cyber, Network, & Bus Sys	435,274	439,571	+ 4,297
	Air Force requested realignment			+ 297
	Program increase: Business enterprise systems product innovation			+ 4,000
135	Acq Workforce- Capability Integration	243,806	263,014	+ 19,208
	Air Force requested realignment			+ 19,208
136	Acq Workforce- Advanced Prgm Technology	103,041	62,755	- 40,286
	Air Force requested realignment			- 40,286
137	Acq Workforce- Nuclear Systems	226,055	227,425	+ 1,370
	Air Force requested realignment			+ 1,370
138	Management HQ—R&D	4,079	5,537	+ 1,458
	Air Force requested realignment			+ 1,458
141	Requirements Analysis and Maturation	85,799	90,799	+ 5,000
	Prior year carryover			- 5,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Nuclear modernization analytics			+ 10,000
145	ENTEPRISE INFORMATION SERVICES (EIS)	28,720	26,720	- 2,000
	Reduce program growth			- 2,000
160	F-35 C2D2	985,404	813,444	- 171,960
	Unjustified program growth—excluding test and evaluation			- 171,960
167	B-52 Squadrons	715,811	701,811	- 14,000
	Radar Modernization contract delay			- 26,000
	Program increase: Global Strike Innovation Hub			+ 10,000
	Program increase: B-52 training automation			+ 2,000
179	Over-the-Horizon Backscatter Radar	42,300	67,400	+ 25,100
	Program increase: North Warning System (NWS)—OTH Radar			+ 25,100
181	MQ-9 UAV	85,135	80,135	- 5,000
	Government cost growth			- 5,000
184	A-10 Squadrons	39,224	34,224	- 5,000
	OPF delays			- 5,000
185	F-16 Squadrons	224,573	220,573	- 4,000
	Digital warning radar schedule slip			- 4,000
190	F-15EX	118,126	107,126	- 11,000
	Prior year carryover			- 11,000
197	Aircraft Engine Component Improvement Program	103,715	114,715	+ 11,000
	Program increase: Laser metal deposition powder			+ 11,000
198	Joint Air-to-Surface Standoff Missile (JASSM)	117,325	107,325	- 10,000
	Weapons data link delay			- 10,000
199	Small Diameter Bomb (SDB)	27,109	32,109	+ 5,000
	Program increase: Precise navigation			+ 5,000
200	Air & Space Operations Center (AOC)	3	90,027	90,024
	Transfer from line 318			+ 90,027
	Programming error			- 3
202	Airborne Warning and Control System (AWACS)	171,014	167,014	- 4,000
	Reduce program growth			- 4,000
216	Battlefield Abn Comm Node (BACN)	32,008	30,008	- 2,000
	Prior year execution delays			- 2,000
218	Mission Planning Systems	92,557	96,057	+ 3,500
	Program increase: Digital flight scheduling			+ 3,500
219	Tactical Deception	489	7,489	+ 7,000
	Program increase: Asset signature modification			+ 7,000
224	Unified Platform (UP)	101,893	91,893	- 10,000
	Unjustified growth			- 10,000
230	Nuclear Planning and Execution System (NPES)		44,684	+ 44,684
	Transfer from line 317			+ 44,684
240	Minimum Essential Emergency Communications Network (MEECN)	20,700	58,165	+ 37,465
	Air Force requested transfer from line 46 for common VLF/LF receiver incr 2			+ 37,465
255	Weather Service	26,228	27,228	+ 1,000
	Program increase: Research on atmospheric rivers			+ 1,000
256	Air Traffic Control, Approach, and Landing System (ATCAL)	8,749	13,749	+ 5,000
	Program increase: Mobile air traffic system with UAS negation			+ 5,000
267	Airborne Reconnaissance Systems	71,791	149,191	+ 77,400
	Program increase: Gorgon stare			+ 10,000
	Program increase: Air Force requested ASARS upgrades			+ 67,400
298	Defense Enterprise Acntng and Mgt Sys (DEAMS)		54,400	+ 54,400
	Transfer from Line 319			+ 54,400
999	Classified Programs	15,868,973	16,181,315	+ 312,342
	Classified program adjustment			+ 312,342
317	Strategic Mission Planning and Execution System—Software Pilot Program	96,100		- 96,100
	Transfer to OMAF lines 11C, 15D and 42A			- 46,359
	Transfer to OPAF, line 23			- 212
	Transfer to OPAF, line 26			- 4,845

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
318	Transfer to line 230			– 44,684
	Air & Space Operations Center [AOC]—Software Pilot Program	186,915		– 186,915
	Transfer to OMAF lines 11C, 15D and 42A			– 76,093
	Transfer to OPAF, line 42			– 20,795
	Transfer to line 200			– 90,027
319	Defense Enterprise Accounting and Management System (DEAMS)—Software Pilot Pro	135,263		– 135,263
	Transfer to OMAF lines 11C, 15D and 42A			– 77,760
	Transfer to OPAF, line 39			– 3,103
	Transfer to line 298			– 54,400

Minority Leaders Program.—The Committee recognizes that increasing the human talent pool within the United States in disciplines of materials and processing, sensors, and related specialties is critical as the United States competes with near-peer adversaries. The Committee is aware of one such effort run by the Air Force Minority Leaders program that seeks to enable students and professors from Historically Black Colleges and Universities and Minority Institutions. In order to support these programs, the Committee encourages additional mentorship opportunities for engineering students at minority-serving institutions to continue research and development projects in science, technology, engineering and mathematics disciplines.

Critical and Emerging Technologies Workforce Pipeline.—The Committee recognizes that growing and maintaining the Science, Technology, Engineering and Mathematics [STEM] talent pool at the advanced educational level is essential to meeting the Department of Defense’s mission of ensuring the future of the U.S. critical technologies that enable national security. The Committee supports efforts within the Air Force Research Laboratory to create a robust STEM consortium focused on advanced technology and consisting of leading Midwest research universities, in collaboration with regional research laboratories and defense related contractor partners. The Committee encourages the development of a consortium, with a goal of identifying, educating, and recruiting advanced STEM talent for seamless transfer into defense relevant employment, leveraging multiple sources of technical infrastructure and expertise; regional community of student scholars; critical, employer-informed training for 21st century science and technology students; coordinated human capital development across multiple institutions; and a multi-site, real-time performance tracking process.

Predictive Design Tools.—The Committee recognizes the pressing need for reliable predictive design tools and the workforce trained to use them in the development of propulsion systems for hypersonic weapons in support of our national defense. The Committee encourages the Secretary of the Air Force to work closely with public research universities that can support their needs.

Technology Transfer.—The Committee recognizes the importance of technology transfer between the Federal Government and non-Federal entities. Licensing federally-funded inventions lowers the cost of new defense-related technology development and ensures

that taxpayer investments in research and development benefit the economy and the defense industrial base. The Committee directs the Secretary of the Air Force to submit to the congressional defense committees, not later than 90 days after enactment of this act, a report on their technology transfer programs. The report shall include a description of current technology transfers; an assessment of the funding required and budgeted across the Future Years Defense Program; and an analysis of current use of partnership intermediary agreements within the Department of Defense laboratory system.

Low-cost Attributable Aircraft Technology.—The Committee supports the Air Force’s efforts to accelerate the Low-Cost Attributable Aircraft Technology [LCAAT] program for collaborative pairing with manned platforms, potentially including the F-35. 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, extensive prototyping of the aircraft is necessary to transition the LCAAT demonstrator aircraft system into a fully operational capability.

Cyber Operations for Base Resilient Architecture.—The Committee is aware of the Air Force’s continued commitment for a comprehensive cyber mission assurance program. The Cyber Operations for Base Resilient Architecture pilot program has seen significant improvement in the mission assurance posture of the Pacific Air Force. Therefore, the Committee encourages the Secretary of the Air Force to continue funding and expanding the Cyber Operations for Base Resilient Architecture pilot program throughout the United States Indo-Pacific Command area of responsibility as part of the overall mission assurance strategy and evaluation of application service-wide.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE

Budget estimate, 2022 \$11,266,387,000
 Committee recommendation 11,642,581,000

The Committee recommends an appropriation of \$11,642,581,000. This is \$376,194,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE			
	APPLIED RESEARCH			
1	SPACE TECHNOLOGY	175,796	308,296	+ 132,500

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1A	FUTURE SPACE FORCE INTEGRATED TECHNOLOGY DEMOS		45,010	+ 45,010
	TOTAL, APPLIED RESEARCH	175,796	353,306	+ 177,510
	ADVANCED TECHNOLOGY DEVELOPMENT			
2	SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEMO	76,653	214,653	+ 138,000
2A	TECH TRANSITION PROGRAM (SPACE)		84,000	+ 84,000
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	76,653	298,653	+ 222,000
	COMPONENT DEVELOPMENT & PROTOTYPES			
3	NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE)	434,194	434,194	
4	EO/IR WEATHER SYSTEMS	162,274	162,274	
5	SPACE SYSTEM SUPPORT	37,000	37,000	
6	WEATHER SYSTEM FOLLOW-ON	61,521	53,421	- 8,100
7	SPACE SITUATION AWARENESS SYSTEMS	123,262	97,346	- 25,916
8	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	101,851	81,851	- 20,000
9	SPACE CONTROL TECHNOLOGY	32,931	32,931	
10	SPACE SECURITY AND DEFENSE PROGRAM	56,546	53,896	- 2,650
11	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES)	100,320	100,320	
12	PROTECTED TACTICAL SERVICE (PTS)	243,285	229,329	- 13,956
13	EVOLVED STRATEGIC SATCOM (ESS)	160,056	152,089	- 7,967
14	SPACE RAPID CAPABILITIES OFFICE	66,193	73,193	+ 7,000
	TOTAL, COMPONENT DEVELOPMENT & PROTOTYPES	1,579,433	1,507,844	- 71,589
	SYSTEM DEVELOPMENT & DEMONSTRATION			
15	GPS III FOLLOW-ON (GPS IIIF)	264,265	240,251	- 24,014
16	SPACE SITUATION AWARENESS OPERATIONS	56,279	46,008	- 10,271
17	COUNTERSPACE SYSTEMS	38,063	48,063	+ 10,000
18	WEATHER SYSTEM FOLLOW-ON	1,438	1,438	
19	SPACE SITUATION AWARENESS SYSTEMS	127,026	127,026	
20	ADVANCED EHF MILSATCOM (SPACE)	28,218	26,942	- 1,276
21	POLAR MILSATCOM (SPACE)	127,870	112,170	- 15,700
22	NEXT GENERATION OPIR	2,451,256	125,853	- 2,325,403
22A	NEXT GENERATION OPIR—GEO		1,137,393	+ 1,137,393
22B	NEXT GENERATION OPIR—POLAR		394,608	+ 394,608
22C	NEXT GENERATION OPIR—GROUND		469,930	+ 469,930
23	COMMERCIAL SATCOM (COMSATCOM) INTEGRATION	23,400	20,940	- 2,460
24	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE)—EMD	221,510	294,510	+ 73,000
	TOTAL, SYSTEM DEVELOPMENT & DEMONSTRATION	3,339,325	3,045,132	- 294,193
	MANAGEMENT SUPPORT			
25	SPACE TEST AND TRAINING RANGE DEVELOPMENT	19,319	69,819	+ 50,500
26	ACQ WORKFORCE—SPACE & MISSILE SYSTEMS	214,051	214,051	
27	SPACE & MISSILE SYSTEMS CENTER—MHA	12,119	12,119	
28	MAJOR T&E INVESTMENT—SPACE	71,503	99,503	+ 28,000
29	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	17,769	17,769	
30	TACTICALLY RESPONSIVE LAUNCH		50,000	+ 50,000
31	SPACE TEST PROGRAM (STP)	20,881	20,881	
	TOTAL, RDT&E MANAGEMENT SUPPORT	355,642	484,142	+ 128,500
	OPERATIONAL SYSTEMS DEVELOPMENT			
33	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN)	4,731	4,731	
34	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T)	156,788	156,788	
35	DCO-SPACE	2,150	2,150	
36	NARROWBAND SATELLITE COMMUNICATIONS	112,012	112,012	
37	SATELLITE CONTROL NETWORK (SPACE)	36,810	36,810	
38	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL SEGMENTS)	1,966	1,966	
39	SPACE AND MISSILE TEST AND EVALUATION CENTER	1,699	1,699	
40	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT	18,054	18,054	

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
41	SPACELIFT RANGE SYSTEM (SPACE)	11,115	31,115	+ 20,000
42	GPS III SPACE SEGMENT	7,207	7,207	.....
43	SPACE SUPERIORITY ISR	18,109	18,109	.....
44	NATIONAL SPACE DEFENSE CENTER	1,280	1,280	.....
45	BALLISTIC MISSILE DEFENSE RADARS	12,292	12,292	.....
46	NCMC—TW/AA SYSTEM	9,858	9,858	.....
47	NUDET DETECTION SYSTEM (SPACE)	45,887	45,887	.....
48	SPACE SITUATION AWARENESS OPERATIONS	64,763	64,763	.....
49	GLOBAL POSITIONING SYSTEM III—OPERATIONAL CONTROL SEGMENT	413,766	402,532	- 11,234
53	ENTERPRISE GROUND SERVICES	191,713	191,713	.....
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,110,200	1,118,966	+ 8,766
54	JSPOC MISSION SYSTEM	154,529	154,529	.....
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	154,529	154,529	.....
999	CLASSIFIED PROGRAMS	4,474,809	4,680,009	+ 205,200
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE	11,266,387	11,642,581	+ 376,194

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Space Technology	175,796	308,296	+ 132,500
	Program increase: Autonomy in space .....	.....	.....	+ 10,000
	Program increase: Ground based interferometry .....	.....	.....	+ 6,000
	Program increase: Lithium sulfur battery development .....	.....	.....	+ 4,000
	Program increase: Non-toxic fuels .....	.....	.....	+ 3,000
	Program increase: Open architecture payloads .....	.....	.....	+ 10,000
	Program increase: Radiation hardened system—on-chip microprocessors .....	.....	.....	+ 7,000
	Program increase: Ultra-lightweight space solar arrays .....	.....	.....	+ 5,000
	Program increase: University consortia for space technology .....	.....	.....	+ 7,500
	Program increase: Advanced multi-physics thermal management .....	.....	.....	+ 5,000
	Program increase: Basic research .....	.....	.....	+ 75,000
1A	Future Space Force Integrated Technology Demos .....	.....	45,010	+ 45,010
	Transfer from RDT&E,AF line 17 for Navigation Technology Satellite 3 (NTS-3) .....	.....	.....	+ 16,110
	Transfer from RDT&E,AF line 17 for Rocket Cargo .....	.....	.....	+ 28,900
2	Space Advanced Technology Development/Demo	76,653	214,653	+ 138,000
	Program increase: Tridyne multi-mode propulsion .....	.....	.....	+ 7,000
	Program increase: Accelerate cislunar flight experiment .....	.....	.....	+ 61,000
	Program increase: Nuclear propulsion technologies for cislunar flight .....	.....	.....	+ 70,000
2A	Tech Transition Program (SPACE) .....	.....	84,000	+ 84,000
	Transfer from RDT&E,AF line 51 for Global Lightning .....	.....	.....	+ 28,800
	Transfer from RDT&E,AF line 51 for Navigation Technology Satellite 3 (NTS-3) .....	.....	.....	+ 5,200
	Program increase: Arctic communications .....	.....	.....	+ 50,000
6	Weather System Follow-on	61,521	53,421	- 8,100

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	WSF-M product development excess to need			- 8,100
7	Space Situation Awareness Systems	123,262	97,346	- 25,916
	DARC site 1 contract delays			- 25,916
8	Space Systems Prototype Transitions (SSPT)	101,851	81,851	- 20,000
	Assault breaker carryover			- 5,000
	ROOSTER development delay			- 15,000
10	Space Security and Defense Program	56,546	53,896	- 2,650
	Forward financing			- 2,650
12	Protected Tactical Service (PTS)	243,285	229,329	- 13,956
	Rapid prototyping excess to need			- 13,956
13	Evolved Strategic SATCOM (ESS)	160,056	152,089	- 7,967
	Prototyping excess to need			- 7,967
14	Space Rapid Capabilities Office	66,193	73,193	+ 7,000
	Program increase: Digital beamformed ground-based SATCOM			+ 7,000
15	GPS III Follow-On (GPS III-F)	264,265	240,251	- 24,014
	Enterprise SE&I overestimation			- 6,081
	Historical carryover			- 17,933
16	Space Situation Awareness Operations	56,279	46,008	- 10,271
	GBOSS EMD contract excess to need			- 10,271
17	Counterspace Systems	38,063	48,063	+ 10,000
	Program increase: Bounty Hunter			+ 10,000
20	Advanced EHF MILSATCOM (SPACE)	28,218	26,942	- 1,276
	Capabilities insertion program excess to need			- 1,276
21	Polar MILSATCOM (SPACE)	127,870	112,170	- 15,700
	EPS-R product development excess to need			- 8,000
	EPS-R product development forward financing			- 7,700
22	Next Generation OPIR	2,451,256	125,853	- 2,325,403
	SMI technology maturation overestimation			- 12,335
	Overestimation of FORGE command and control			- 20,000
	Unjustified growth-FORGE mission data processing			- 24,647
	NGP excess to need			- 266,490
	Transfer to line 22a for project 657120 Next-Gen OPIR Space, Block 0 GEO			- 1,137,393
	Transfer to line 22b for project 657121 Next-Gen OPIR Space, Block 0 Polar			- 394,608
	Transfer to line 22c for project 657106 Next-Gen OPIR Ground			- 469,930
22A	Next Generation OPIR—GEO		1,137,393	+ 1,137,393
	Transfer from line 22 for project 657120 Next-Gen OPIR Space, Block 0 GEO			+ 1,137,393
22B	Next Generation OPIR—Polar		394,608	+ 394,608
	Transfer from line 22 for project 657121 Next-Gen OPIR Space, Block 0 Polar			+ 394,608
22C	Next Generation OPIR—Ground		469,930	+ 469,930
	Transfer from line 22 for project 657106 Next-Gen OPIR Ground			+ 469,930
23	Commercial SATCOM (COMSATCOM) Integration	23,400	20,940	- 2,460
	Forward financing product development			- 2,460
24	National Security Space Launch Program (SPACE)—EMD	221,510	294,510	+ 73,000
	Program increase: Uplink command and control to support upper stage resiliency			+ 50,000
	Program increase: Upper-stage engine technology			+ 23,000
25	Space Test and Training Range Development	19,319	69,819	+ 50,500
	Program increase: Cyber training range			+ 17,500
	Program increase: Advanced threat simulation environment			+ 33,000
28	Major T&E Investment—Space	71,503	99,503	+ 28,000
	Program increase: Lab and test range upgrades—space			+ 28,000
30	Tactically Responsive Launch		50,000	+ 50,000
	Program increase			+ 50,000
41	Spacelift Range System (SPACE)	11,115	31,115	+ 20,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Space launch range services and capabilities			+ 20,000
49	Global Positioning System III—Operational Control Segment	413,766	402,532	– 11,234
	OCX unjustified growth			– 11,234
999	Classified Programs	4,474,809	4,680,009	+ 205,200
	Classified adjustment			+ 205,200

Space Vanguard Programs.—As outlined in the Department of the Air Force’s 2030 Science and Technology Strategy, the Air Force exercises its Vanguard programs to advance emerging weapon systems and warfighting concepts through prototyping and experimentation within its Air Force Research Lab [AFRL]. Three of these programs, the Navigation Technology Satellite 3 [NTS 3], Global Lightning, and Rocket Cargo, focus on the space domain and the Committee believes that these resources, while still executed through AFRL, are more appropriately allocated to the Space Force’s research, development, test and evaluation appropriation. Therefore, the Committee has transferred \$21,310,000 for NTS 3, \$28,900,000 for Rocket Cargo, and \$28,800,000 for Global Lightning from the Research, Development, Test and Evaluation, Air Force appropriation to the Research, Development, Test and Evaluation, Space Force appropriation. Further, the Committee directs the Secretary of the Air Force to budget research and development activities for space related technologies within Space Force’s appropriation, regardless of execution mechanism.

Next Generation Overhead Persistent Infrared.—The fiscal year 2022 President’s budget request includes \$2,451,256,000 for the Next Generation Overhead Persistent Infrared program, comprised of separate projects for the ground command and control, Geosynchronous [GEO], and Polar space efforts. The Committee notes that each of these efforts, if developed under the major capability acquisition pathway, would have acquisition category one status in their own right. Further, the Committee notes that in fiscal year 2020 and fiscal year 2021, significant funding was realigned between the programs without prior notification to the congressional defense committees made possible by their consolidation within one single program element. Therefore, the Committee establishes new budget lines for each of these efforts and directs the Secretary of the Air Force to submit the fiscal year 2023 budget submission with distinct budget lines and program elements for the ground, polar, and GEO efforts.

Guidance, Navigation, and Control.—The Committee recognizes the importance of developing leading edge guidance, navigation, and control capabilities for the next generation of small satellites. This technology is a critical enabler for new satellite architectures that rely on precise guidance and control to facilitate laser-based communication links to update onboard systems and communicate with other satellites and ground control stations. The Committee encourages the Secretary of the Air Force to continue investing in these key enabling technologies.

Commercial Technologies.—The Department of Defense Appropriations Act, 2021 (Public Law 116–260) appropriated \$25,000,000

for commercial space domain awareness [SDA] services and established the Commercial Satellite Communications [COMSATCOM] budget line by transferring \$43,212,000 from existing resources within the Research, Development, Test and Evaluation, Space Force account. Subsequently, the fiscal year 2022 President's budget request includes \$23,400,000 for COMSATCOM integration efforts to incorporate COMSATCOM into its enterprise architecture, but does not request funding to continue commercial SDA services.

The Committee recognizes the robust commercial market for vital mission sets of the United States Space Force [USSF], including communications, space domain awareness, and intelligence, reconnaissance, and surveillance. USSF and other space organizations within the Department have publicly championed a hybrid space architecture that includes organic and commercial space vehicles and services. However, the Committee believes that the USSF is slow to prioritize commercial offerings into its enterprise architecture and dedicate sufficient resources to continue advancements in enabling technologies, such as encryption technologies necessary for a ubiquitous hybrid architecture. Therefore, the Committee directs the Commander, Space Systems Command, not later than 90 days after the enactment of this act, to provide the congressional defense committees a report detailing the strategy to integrate commercial satellites across its mission sets and a Future Years Defense Program resource profile by appropriation and line item dedicated to these efforts.

Nuclear Electric Propulsion Technology.—The Committee recognizes that traditional solar array technologies for space vehicle power generation provide limited power sourcing, degrade over time, and can increase radar signature. The Committee notes that nuclear electric propulsion technology has the potential to increase the lifespan, range, and communications capabilities of space vehicles enabling the Space Force to develop new space architectures, as well as modified tactics, techniques, and procedures for operation within existing architectures. Therefore, the Committee directs the Secretary of the Air Force, in coordination with the Chief of Space Operations, not later than 90 days following enactment of this act, to provide a report to the congressional defense committees on the technical maturity, cost, benefits, and risks associated with nuclear electric propulsion technology in space.

Enabling Investments in Launch.—The Committee commends the Secretary of the Air Force and Chief of Space Operations on the progress made through the National Security Space Launch [NSSL] program leading to a robust set of current launch capabilities, promising advancements through its developmental launch service agreements, and a revitalized organic industrial base. The Committee encourages the Secretary of the Air Force, in consultation with the Chief of Space Operations, to prioritize its NSSL enabling investments program, particularly in the areas of space access, mobility, and logistics. Continued investment in these enabling launch technologies will help strengthen the industrial base and the Department's capabilities through development of new technologies for upper stage resiliency, orbital transfers, on-orbit servicing, digital engineering, and novel on-orbit propulsion.

Tactically Responsive Space Launch.—The Department of Defense Appropriations Act, 2021 (Public Law 116–260) appropriated \$15,000,000 for investments in tactically responsive space launch capabilities. Further, section 1609 of the National Defense Authorization Act for Fiscal Year 2021 (Public Law 116–283) directed the Secretary of the Air Force to establish a Tactically Responsive Space Launch program within the Future Years Defense Program. The Committee is concerned that the fiscal year 2022 President’s budget request does not include any resources to establish the program this fiscal year despite an obvious need to counter adversarial launches of disruptive technologies in a tactically relevant timeline. Therefore, the Committee directs the Secretary of the Air Force, in consultation with the Chief of Space Operations, not later than 90 days following enactment of this act, to provide the congressional defense committees with an acquisition strategy that operationalizes a tactically responsive launch capability and the resource profile associated with the strategy across the Future Years Defense Program.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE–WIDE

Budget estimate, 2022 \$25,857,875,000
 Committee recommendation 29,120,239,000

The Committee recommends an appropriation of \$29,120,239,000. This is \$3,262,364,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE			
	BASIC RESEARCH			
1	DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH	11,828	11,828	.....
2	DEFENSE RESEARCH SCIENCES	395,781	445,781	+ 50,000
3	HIGH ENERGY LASER RESEARCH INITIATIVES	15,390	15,390	.....
4	BASIC RESEARCH INITIATIVES	39,828	79,828	+ 40,000
5	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE	76,018	76,018	.....
6	NATIONAL DEFENSE EDUCATION PROGRAM	112,195	147,195	+ 35,000
7	HISTORICALLY BLACK COLLEGES & UNIV (HBCU)	31,136	41,136	+ 10,000
8	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	34,708	37,208	+ 2,500
	TOTAL, BASIC RESEARCH	716,884	854,384	+ 137,500
	APPLIED RESEARCH			
9	JOINT MUNITIONS TECHNOLOGY	19,591	19,591	.....
10	BIOMEDICAL TECHNOLOGY	108,698	108,698	.....
12	DEFENSE TECHNOLOGY INNOVATION	22,918	22,918	.....
13	LINCOLN LABORATORY RESEARCH PROGRAM	55,692	55,692	.....
14	APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES	65,015	65,015	.....
15	INFORMATION AND COMMUNICATIONS TECHNOLOGY	430,363	505,363	+ 75,000
16	BIOLOGICAL WARFARE DEFENSE	31,421	31,421	.....
17	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	206,956	206,956	.....
18	CYBER SECURITY RESEARCH	15,380	15,380	.....
19	TACTICAL TECHNOLOGY	202,515	227,515	+ 25,000

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
20	MATERIALS AND BIOLOGICAL TECHNOLOGY	317,024	317,024	.....
21	ELECTRONICS TECHNOLOGY	357,384	393,384	+ 36,000
22	COUNTER WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES	197,011	197,011	.....
23	SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH	9,601	9,601	.....
24	HIGH ENERGY LASER RESEARCH	45,997	45,997	.....
25	SOF TECHNOLOGY DEVELOPMENT	44,829	48,829	+ 4,000
	TOTAL, APPLIED RESEARCH	2,130,395	2,270,395	+ 140,000
26	ADVANCED TECHNOLOGY DEVELOPMENT JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	23,213	30,213	+ 7,000
27	SO/LIC ADVANCED DEVELOPMENT	4,665	4,665	.....
28	COMBATING TERRORISM TECHNOLOGY SUPPORT	69,376	69,376	.....
29	FOREIGN COMPARATIVE TESTING	25,432	25,432	.....
31	COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	399,362	407,362	+ 8,000
32	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	15,800	40,000	+ 24,200
33	ADVANCED RESEARCH	21,466	42,966	+ 21,500
34	JOINT HYPERSONIC TECHNOLOGY DEVELOPMENT & TRANSITION	51,340	51,340	.....
35	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	19,063	19,063	.....
36	ADVANCED AEROSPACE SYSTEMS	174,043	232,043	+ 58,000
37	SPACE PROGRAMS AND TECHNOLOGY	101,524	181,524	+ 80,000
38	ANALYTIC ASSESSMENTS	24,012	24,012	.....
39	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	51,513	51,513	.....
42	DEFENSE MODERNIZATION AND PROTOTYPING	115,443	74,235	- 41,208
43	DEFENSE INNOVATION UNIT	31,873	31,873	.....
44	TECHNOLOGY INNOVATION	54,433	54,433	.....
45	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEV	197,824	197,824	.....
46	RETRACT LARCH	99,175	99,175	.....
47	JOINT ELECTRONIC ADVANCED TECHNOLOGY	18,221	18,221	.....
48	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	102,669	99,669	- 3,000
49	NETWORKED COMMUNICATIONS CAPABILITIES	2,984	2,984	.....
50	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	134,022	186,022	+ 52,000
51	MANUFACTURING TECHNOLOGY PROGRAM	37,543	56,543	+ 19,000
53	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	12,418	12,418	.....
54	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	51,863	61,863	+ 10,000
55	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT	160,821	204,821	+ 44,000
56	JOINT WARFIGHTING PROGRAM	2,169	2,169	.....
57	ADVANCED ELECTRONICS TECHNOLOGIES	116,716	140,716	+ 24,000
58	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS	251,794	251,794	.....
59	NETWORK-CENTRIC WARFARE TECHNOLOGY	584,771	634,771	+ 50,000
60	SENSOR TECHNOLOGY	294,792	294,792	.....
61	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT	6,398	6,398	.....
62	SOFTWARE ENGINEERING INSTITUTE	14,677	14,677	.....
65	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	107,397	59,897	- 47,500
66	TEST & EVALUATION SCIENCE & TECHNOLOGY	267,161	397,161	+ 130,000
67	NATIONAL SECURITY INNOVATION NETWORK	21,270	21,270	.....
68	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT	74,300	95,900	+ 21,600
74	SOF ADVANCED TECHNOLOGY DEVELOPMENT	93,415	108,415	+ 15,000
75	SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT	172,638	172,638	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	4,007,596	4,480,188	+ 472,592
76	ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	28,687	28,687	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
77	WALKOFF	108,652	108,652	.....
79	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	71,429	89,429	+ 18,000
80	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	277,949	249,882	- 28,067
81	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	745,144	679,526	- 65,618
82	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	129,445	129,445	.....
83	BALLISTIC MISSILE DEFENSE SENSORS	224,750	254,962	+ 30,212
84	BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS	595,301	623,644	+ 28,343
85	SPECIAL PROGRAMS—MDA	413,374	413,374	.....
86	AEGIS BMD	732,512	646,018	- 86,494
87	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT	603,448	564,946	- 38,502
88	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT ..	50,594	50,594	.....
89	MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER (MDIOC)	52,403	52,403	.....
90	REGARDING TRENCH	11,952	11,952	.....
91	SEA BASED X-BAND RADAR [SBX]	147,241	147,241	.....
92	ISRAELI COOPERATIVE PROGRAMS	300,000	300,000	.....
93	BALLISTIC MISSILE DEFENSE TEST	362,906	387,751	+ 24,845
94	BALLISTIC MISSILE DEFENSE TARGETS	553,334	546,170	- 7,164
96	COALITION WARFARE	5,103	5,103	.....
97	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G)	374,665	323,610	- 51,055
98	DEPARTMENT OF DEFENSE CORROSION PROGRAM	3,259	3,259	.....
99	GUAM DEFENSE DEVELOPMENT	78,300	138,300	+ 60,000
100	TECHNOLOGY MATURATION INITIATIVES .....	.....	39,200	+ 39,200
103	HYPERSONIC DEFENSE	247,931	309,796	+ 61,865
104	ADVANCED INNOVATIVE TECHNOLOGIES	716,456	734,456	+ 18,000
105	TRUSTED AND ASSURED MICROELECTRONICS	509,195	739,195	+ 230,000
106	RAPID PROTOTYPING PROGRAM	103,575	95,400	- 8,175
107	DEFENSE INNOVATION UNIT (DIU) PROTOTYPING	11,213	11,213	.....
108	DEPARTMENT OF DEFENSE (DOD) UNMANNED SYSTEM COMMON DEVELOPMENT	2,778	7,778	+ 5,000
109	CATAPULT	7,166	7,166	.....
110	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT—NON S&T	23,200	23,200	.....
111	HOMELAND DEFENSE RADAR-HAWAII .....	.....	41,000	+ 41,000
113	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)	3,519	3,519	.....
114	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY	17,439	17,439	.....
115	LONG RANGE DISCRIMINATION RADAR	133,335	133,335	.....
116	IMPROVED HOMELAND DEFENSE INTERCEPTORS	926,125	925,125	- 1,000
117	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT TEST	32,697	16,417	- 16,280
118	AEGIS BMD TEST	117,055	110,720	- 6,335
119	BALLISTIC MISSILE DEFENSE SENSOR TEST	77,428	77,243	- 185
120	LAND-BASED SM-3 [LBSM3]	43,158	43,158	.....
121	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT TEST	61,424	56,524	- 4,900
122	SAFETY PROGRAM MANAGEMENT	2,323	2,323	.....
123	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS	2,568	2,568	.....
125	CYBER SECURITY INITIATIVE	1,142	1,142	.....
126	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	636,179	1,404,179	+ 768,000
127	SPACE TRACKING AND SURVEILLANCE SYSTEM	15,176	15,176	.....
128	BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS	292,811	268,811	- 24,000
XXX	Rapid Defense Experimentation Reserve (RDER) .....	.....	163,383	+ 163,383
	TOTAL, DEMONSTRATION & VALIDATION	9,854,341	11,004,414	+ 1,150,073
129	ENGINEERING & MANUFACTURING DEVELOPMENT NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	5,682	5,682	.....
131	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	299,848	299,848	.....

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
132	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM [JTIDS]	9,345	21,345	+ 12,000
133	COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	14,063	14,063	.....
134	INFORMATION TECHNOLOGY DEVELOPMENT	4,265	4,265	.....
135	HOMELAND PERSONNEL SECURITY INITIATIVE	7,205	7,205	.....
136	DEFENSE EXPORTABILITY PROGRAM	5,447	5,447	.....
137	OUS(D) IT DEVELOPMENT INITIATIVES	16,892	16,892	.....
138	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION	679	679	.....
140	DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM	32,254	32,254	.....
142	MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	5,500	5,500	.....
143	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES	7,148	7,148	.....
144	TRUSTED & ASSURED MICROELECTRONICS	113,895	113,895	.....
146	NUCLEAR COMMAND, CONTROL, & COMMUNICATIONS	3,991	3,991	.....
149	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)	2,227	2,227	.....
150	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION	20,246	20,246	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	548,687	560,687	+ 12,000
	MANAGEMENT SUPPORT			
151	JOINT CAPABILITY EXPERIMENTATION	8,444	8,444	.....
152	DEFENSE READINESS REPORTING SYSTEM [DRRS]	7,508	7,508	.....
153	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	7,859	7,859	.....
154	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT ASSESSMENTS AND EVALUATIONS	550,140	1,405,840	+ 855,700
155	MISSION SUPPORT	17,980	17,980	.....
156	JOINT MISSION ENVIRONMENT TEST CAPABILITY [JMETC]	73,145	73,145	.....
157	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION	71,410	71,410	.....
159	CLASSIFIED PROGRAM USD(P)	52,671	52,671	.....
160	SYSTEMS ENGINEERING	108,652	108,652	+ 108,652
161	STUDIES AND ANALYSIS SUPPORT	40,030	40,030	.....
162	NUCLEAR MATTERS—PHYSICAL SECURITY	4,612	4,612	.....
163	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	14,429	14,429	.....
164	GENERAL SUPPORT TO USD (INTELLIGENCE)	4,759	4,759	.....
165	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	1,952	10,452	+ 8,500
166	SMALL BUSINESS INNOVATION RESEARCH (SBIR)/ SMALL BUSINESS TECHNOLOGY TRANSFER	110,503	110,503	.....
172	MAINTAINING TECHNOLOGY ADVANTAGE	3,639	3,639	.....
173	DEFENSE TECHNOLOGY ANALYSIS	25,889	25,889	.....
174	DEFENSE TECHNICAL INFORMATION CENTER [DTIC]	39,774	42,774	+ 3,000
175	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	61,453	61,453	.....
176	DEVELOPMENT TEST AND EVALUATION	18,762	18,762	.....
177	MANAGEMENT HQ—R&D	27,366	27,366	.....
178	MANAGEMENT HQ—DEFENSE TECHNICAL INFORMATION CENTER [DTIC]	12,740	12,740	.....
179	BUDGET AND PROGRAM ASSESSMENTS	3,549	3,549	.....
180	ODNA TECHNOLOGY AND RESOURCE ANALYSIS	15,438	15,438	.....
181	DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT	2,897	4,897	+ 2,000
182	CYBER RESILIENCY AND CYBERSECURITY POLICY	918	918	.....
183	DEFENSE OPERATIONS SECURITY (DOSI)	31,638	31,638	.....
184	JOINT STAFF ANALYTICAL SUPPORT	2,925	2,925	.....
185	C4I INTEROPERABILITY	977	977	.....
186	INFORMATION SYSTEMS SECURITY PROGRAM	55,361	55,361	.....
189	DEFENSE MILITARY DECEPTION PROGRAM OFFICE	853	853	.....
191	COMBINED ADVANCED APPLICATIONS	969	969	.....
192	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	15,696	15,696	.....
194	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION	3,073	3,073	.....
197	DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI)	29,530	29,530	.....
198		689	689	.....

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
199	MANAGEMENT HEADQUARTERS—MDA	24,102	21,702	- 2,400
200	JOINT SERVICE PROVIDER (JSP)	2,645	2,645	.....
9999	CLASSIFIED PROGRAMS	37,520	37,520	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,383,845	2,359,297	+ 975,452
	OPERATIONAL SYSTEMS DEVELOPMENT			
202	ENTERPRISE SECURITY SYSTEM (ESS)	5,355	5,355	.....
203	JOINT ARTIFICIAL INTELLIGENCE	10,033	151,197	+ 141,164
206	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT ...	58,189	159,689	+ 101,500
207	CWMD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT	18,721	18,721	.....
208	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT ...	7,398	7,398	.....
209	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS DEVELOPMENT)	58,261	58,261	.....
215	DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION	16,233	16,233	.....
216	LONG HAUL COMMUNICATIONS (DCS)	10,275	10,275	.....
217	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK	4,892	24,892	+ 20,000
218	KEY MANAGEMENT INFRASTRUCTURE (KMI)	83,751	83,751	.....
219	INFORMATION SYSTEMS SECURITY PROGRAM	49,191	49,191	.....
220	INFORMATION SYSTEMS SECURITY PROGRAM	423,745	447,745	+ 24,000
221	INFORMATION SYSTEMS SECURITY PROGRAM	5,707	5,707	.....
222	GLOBAL COMMAND AND CONTROL SYSTEM	4,150	4,150	.....
223	DEFENSE SPECTRUM ORGANIZATION	19,302	19,302	.....
224	JOINT REGIONAL SECURITY STACKS (JRSS)	9,342	9,342	.....
226	FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY	15,326	15,326	.....
232	SECURITY AND INVESTIGATIVE ACTIVITIES	8,800	8,800	.....
235	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	3,820	3,820	.....
237	POLICY R&D PROGRAMS	4,843	4,843	.....
238	NET CENTRICITY	13,471	13,471	.....
240	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	5,994	5,994	.....
246	INSIDER THREAT .....	.....	.....	.....
247	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM	1,273	1,273	.....
255	LOGISTICS SUPPORT ACTIVITIES	1,690	1,690	.....
256	PACIFIC DISASTER CENTERS	1,799	5,799	+ 4,000
257	DEFENSE PROPERTY ACCOUNTABILITY SYSTEM	6,390	6,390	.....
259	MQ-9 UAV	19,065	29,065	+ 10,000
261	AVIATION SYSTEMS	173,537	173,537	.....
262	INTELLIGENCE SYSTEMS DEVELOPMENT	32,766	32,766	.....
263	OPERATIONAL ENHANCEMENTS	145,830	145,830	.....
264	WARRIOR SYSTEMS	78,592	100,803	+ 22,211
265	SPECIAL PROGRAMS	6,486	10,486	+ 4,000
266	UNMANNED ISR	18,006	18,006	.....
267	SOF TACTICAL VEHICLES	7,703	7,703	.....
268	MARITIME SYSTEMS	58,430	58,430	.....
270	OPERATIONAL ENHANCEMENTS INTELLIGENCE	10,990	10,990	.....
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,399,356	1,726,231	+ 326,875
999	CLASSIFIED PROGRAMS	5,208,029	5,442,540	+ 234,511
272	JOINT ARTIFICIAL INTELLIGENCE	186,639	.....	- 186,639
273	NATIONAL BACKGROUND INVESTIGATION SERVICES—SOFTWARE PILOT PROGRAM	123,570	123,570	.....
274	ACQUISITION VISIBILITY—SOFTWARE PILOT PROGRAM	18,307	18,307	.....
275	GLOBAL COMMAND AND CONTROL SYSTEM	32,774	32,774	.....
276	ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS—SOFTWARE PILOT PROGRAM	247,452	247,452	.....
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE	25,857,875	29,120,239	+ 3,262,364

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
2	Defense Research Sciences	395,781	445,781	+ 50,000
	Program increase: ERI 2.0			+ 20,000
	Program increase: AI, cyber and data analytics			+ 30,000
4	Basic Research Initiatives	39,828	79,828	+ 40,000
	Program increase: Asymmetric threat analysis			+ 8,000
	Program increase: MINERVA			+ 13,000
	Program increase: DEPSCOR			+ 19,000
6	National Defense Education Program	112,195	147,195	+ 35,000
	Program increase: Civil society			+ 15,000
	Program increase: STEM programs			+ 20,000
7	Historically Black Colleges and Universities/Minority Institutions	31,136	41,136	+ 10,000
	Program increase			+ 10,000
8	Chemical and Biological Defense Program	34,708	37,208	+ 2,500
	Program increase: Chemically resistant, high-performance military cordage, rope, and webbing			+ 2,500
15	Information & Communications Technology	430,363	505,363	+ 75,000
	Program increase: Quantum computing			+ 60,000
	Program increase: AI, cyber and data analytics			+ 15,000
19	Tactical Technology	202,515	227,515	+ 25,000
	Program increase: AI, cyber and data analytics			+ 25,000
21	Electronics Technology	357,384	393,384	+ 36,000
	Program increase: ERI 2.0			+ 36,000
25	SOF Technology Development	44,829	48,829	+ 4,000
	Program increase: Sustained human performance and resilience			+ 4,000
26	Joint Munitions Advanced Technology	23,213	30,213	+ 7,000
	Program increase: Energetics revitalization			+ 7,000
31	Counter Weapons of Mass Destruction Advanced Technology Development	399,362	407,362	+ 8,000
	Program increase: Data-driven methods of nuclear weapon discovery			+ 4,000
	Program increase: Detection and tracking technology			+ 4,000
32	Advanced Concepts and Performance Assessment	15,800	40,000	+ 24,200
	Program increase: Cyber operations			+ 9,000
	Program increase: Hypersonic kill vehicles hardware in the loop upgrades			+ 10,000
	Program increase: Cybersecurity			+ 5,200
33	Advanced Research	21,466	42,966	+ 21,500
	Program increase: 3D printed high temperature nickel based alloys for hypersonic applications			+ 4,000
	Program increase: Benzoxazine for high-mach system thermal protection			+ 5,000
	Program increase: High speed flight experiment testing			+ 12,500
36	Advanced Aerospace Systems	174,043	232,043	+ 58,000
	Transfer from DPA, for hypersonics engine development only			+ 38,000
	Program increase: Hypersonics risk reduction			+ 20,000
37	Space Programs and Technology	101,524	181,524	+ 80,000
	Program increase: Hypersonics risk reduction			+ 80,000
42	Defense Modernization and Prototyping	115,443	74,235	- 41,208
	Transfer to Line XXX, p721, Conceptual Prototyping to Support DoD Modernization Priorities, for RDER projects only			- 43,995
	Transfer to Line XXX, p721, Red Teaming to Support DoD Modernization Priorities, for RDER projects only			- 8,213
	Program increase: Open source intelligence			+ 3,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Ship-based multi-sensor prototype development and demonstration			+ 8,000
48	Joint Capability Technology Demonstration	102,669	99,669	- 3,000
	Transfer to Line XXX, Concept Development/developmental and Operational Prototypes, for RDER projects only			- 3,000
50	Defense-Wide Manufacturing Science and Technology Program	134,022	186,022	+ 52,000
	Program increase: Certification-based workforce training programs for manufacturing jobs of the future			+ 5,000
	Program increase: Data analytics and visualization system			+ 12,000
	Program increase: High performance computing-enabled large-scale advanced manufacturing			+ 25,000
	Program increase: Natural gas pipeline pilot study			+ 5,000
	Program increase: Virtual reality-enabled smart installation experimentation			+ 5,000
51	Manufacturing Technology Program	37,543	56,543	+ 19,000
	Program increase: Graphite materials			+ 9,000
	Program increase: Nanostructured Iron Nitride Permanent Magnets			+ 7,000
	Program increase: PFAS compounds in food packaging materials research			+ 3,000
54	Strategic Environmental Research Program	51,863	61,863	+ 10,000
	Program increase			+ 10,000
55	Microelectronics Technology Development and Support	160,821	204,821	+ 44,000
	Program increase: GaN-on-Si RF Front-end			+ 30,000
	Program increase: On-shore test site			+ 9,000
	Program increase: Silicon carbide applications			+ 5,000
57	Advanced Electronics Technologies	116,716	140,716	+ 24,000
	Program increase: ERI 2.0			+ 24,000
59	Network-Centric Warfare Technology	584,771	634,771	+ 50,000
	Program increase: Assault Breaker II acceleration			+ 50,000
65	High Energy Laser Advanced Technology Program	107,397	59,897	- 47,500
	Additional HELSI directed energy system excess to Phase II requirement			- 47,500
66	Test & Evaluation Science & Technology	267,161	397,161	+ 130,000
	Program increase: Advancements to large energy national shock tunnels			+ 15,000
	Program increase: Lab and test range upgrades—space			+ 33,000
	Program increase: Lab and test range upgrades—electromagnetic spectrum			+ 30,000
	Program increase: Lab and test range upgrades—directed energy			+ 11,000
	Program increase: Lab and test range upgrades—targets			+ 41,000
68	Operational Energy Capability Improvement	74,300	95,900	+ 21,600
	Program increase: Advanced thermal systems for scaled directed energy			+ 11,600
	Program increase: TRISO advanced nuclear fuel			+ 10,000
74	SOF Advanced Technology Development	93,415	108,415	+ 15,000
	Program increase: Identity threat mitigation and force protection initiative			+ 15,000
79	Environmental Security Technical Certification Program	71,429	89,429	+ 18,000
	Program increase: PFAS destruction technologies			+ 15,000
	Program increase: Sustainable technology evaluation and demonstration program			+ 3,000
80	Ballistic Missile Defense Terminal Defense Segment	277,949	249,882	- 28,067
	Layered homeland defense lack of requirement			- 28,067
81	Ballistic Missile Defense Midcourse Defense Segment	745,144	679,526	- 65,618
	Layered homeland defense lack of requirement			- 9,997
	Increment 9 unjustified content growth			- 55,621

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
83	Ballistic Missile Defense Sensors	224,750	254,962	+ 30,212
	Program increase: Cybersecurity			+ 3,012
	Program increase: HWIL and Digital modeling capabilities for IMTP			+ 27,200
84	BMD Enabling Programs	595,301	623,644	+ 28,343
	Layered homeland defense lack of requirement			- 16,487
	Program increase: Cybersecurity			+ 25,317
	Program increase: Cybersecurity engineering			+ 19,513
86	AEGIS BMD	732,512	646,018	- 86,494
	Layered homeland defense lack of requirement			- 86,494
87	Ballistic Missile Defense Command and Control, Battle Management and Communication	603,448	564,946	- 38,502
	Layered homeland defense lack of requirement			- 44,978
	Program increase: Cybersecurity			+ 2,000
	Program increase: JADC2 interface			+ 4,476
93	Ballistic Missile Defense Test	362,906	387,751	+ 24,845
	FTX-26 delay			- 1,405
	Program increase: Test Infrastructure Improvements			+ 26,250
94	Ballistic Missile Defense Targets	553,334	546,170	- 7,164
	Layered homeland defense lack of requirement			- 9,127
	FTM-30 delay			- 2,624
	FTM-42 delay			- 264
	FTT-25 delay			- 5,841
	FTX-26 delay			- 14,308
	Program increase: Architecture reactive target simulation development			+ 20,000
	Program increase: Missile defense system architecture integration and analysis center prototype			+ 5,000
97	Next Generation Information Communications Technology (5G)	374,665	323,610	- 51,055
	Tranche 2 growth without transition plans			- 46,055
	External engagement—unjustified and excess growth			- 5,000
99	Guam Defense Development	78,300	138,300	+ 60,000
	Program increase: Guam Defense System acceleration			+ 60,000
100	Technology Maturation Initiatives		39,200	+ 39,200
	Program increase: Directed energy			+ 33,200
	Program increase: Diode pumped alkali laser			+ 6,000
103	Hypersonic Defense	247,931	309,796	+ 61,865
	Program increase: Partnered flight test participation			+ 40,000
	Program increase: Engineering enablers			+ 11,865
	Program increase: Disruptive technologies for future architectures			+ 10,000
104	Advanced Innovative Technologies	716,456	734,456	+ 18,000
	Program increase: Pele micro nuclear reactor			+ 15,000
	Program increase: Predictive autonomous navigational routing system phase II			+ 3,000
105	Trusted & Assured Microelectronics	509,195	739,195	+ 230,000
	Joint Federated Assurance Center	[9,000]	[9,000]	
	Foundry	[45,000]	[45,000]	
	Secure Design and Quantifiable Assurance Development	[243,195]	[243,195]	
	Access to Advanced Packaging and Testing—Development	[112,600]	[112,600]	
	Address DOD Unique Needs Especially Radiation Hardening—Development	[82,700]	[82,700]	
	Create a Resilient and robust Microelectronics Pipeline—Development	[16,700]	[16,700]	
	Program increase: Radiation-hardened fully-depleted silicon-on-insulator microelectronics			+ 10,000
	Program increase: Trusted and Assured GaN and GaAs RFIC Technology			+ 10,000
	Program increase: Trusted artificial intelligence			+ 10,000
	Program increase: Design acceleration			+ 200,000
106	Rapid Prototyping Program	103,575	95,400	- 8,175

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Transfer to Line XXX, Advanced Prototyping to Support DoD Modernization Priorities, for RDER projects only			- 8,175
108	Department of Defense (DoD) Unmanned System Common Development	2,778	7,778	+ 5,000
	Program increase: Unmanned traffic management			+ 5,000
111	Homeland Defense Radar—Hawaii (HDR-H)		41,000	+ 41,000
	Program increase: Homeland defense radar—Hawaii			+ 41,000
116	Improved Homeland Defense Interceptors	926,125	925,125	- 1,000
	Next generation interceptor funds phasing			- 1,000
117	Ballistic Missile Defense Terminal Defense Segment Test	32,697	16,417	- 16,280
	FTT-25 delay			- 16,280
118	Aegis BMD Test	117,055	110,720	- 6,335
	Layered homeland defense lack of requirement			- 5,849
	FTX-26 delay			- 486
119	Ballistic Missile Defense Sensor Test	77,428	77,243	- 185
	FTT-25 delay			- 185
121	Ballistic Missile Defense Midcourse Segment Test	61,424	56,524	- 4,900
	FTX-26 delay			- 4,900
126	Space Technology Development and Prototyping	636,179	1,404,179	+ 768,000
	Transfer SDA Tranche 1 satellite cost savings to SDA Tranche 1 launch integration			- 20,000
	Transfer SDA Tranche 1 satellite cost savings to P, DW line 48 only for SDA NSSL Tranche 1 launch			- 12,000
	Transfer from SDA Tranche 1 satellite cost savings to SDA Tranche 1 launch integration			+ 20,000
	Program increase: Laser communication router demonstration system			+ 12,000
	Program increase: Space networking center			+ 18,000
	Program Increase: INDOPACOM missile tracking demonstration			+ 750,000
128	Ballistic Missile Defense System Space Programs	292,811	268,811	- 24,000
	HBTS NSSL launch cost savings			- 24,000
XXX	Rapid Defense Experimentation Reserve (RDER)		163,383	+ 163,383
	Transfer from Line 42, p721, Conceptual Prototyping to Support DoD Modernization Priorities, for RDER projects only			+ 43,995
	Transfer from Line 42, p721, Red Teaming to Support DoD Modernization Priorities, for RDER projects only			+ 8,213
	Transfer from Line 48, JCTD Concept Development/developmental and Operational Prototypes, for RDER projects only			+ 3,000
	Transfer from Line 106, Advanced Prototyping to Support DoD Modernization Priorities, for RDER projects only			+ 8,175
	RDER program acceleration			+ 100,000
132	Joint Tactical Information Distribution System [JTIDS]	9,345	21,345	+ 12,000
	Program increase: Cyber resilience and analysis capability for installation and missile resiliency			+ 12,000
144	Trusted & Assured Microelectronics	113,895	113,895	
	Foundry	[4,000]	[4,000]	
	Secure Design and Quantifiable Assurance Demonstration	[47,298]	[47,298]	
	Access to Advanced Packaging and Testing—Demonstration	[41,797]	[41,797]	
	Address DOD Unique Needs Especially Radiation Hardening—Demonstration	[20,800]	[20,800]	
154	Central Test and Evaluation Investment Development (CTEIP)	550,140	1,405,840	+ 855,700
	Program increase: AESA radars for test infrastructure			+ 504,000
	Program increase: C-band and X-band decoy systems for test infrastructure			+ 81,200
	Program increase: Lab and test range upgrades—electromagnetic spectrum			+ 156,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Lab and test range upgrades—hypersonics			+ 71,000
	Program increase: Lab and test range upgrades—directed energy			+ 21,000
	Program increase: Lab and test range upgrades—targets			+ 18,000
	Program increase: Telemetry extension SATCOM relay			+ 4,500
160	Classified Program USD(P)		108,652	+ 108,652
	Classified adjustment			+ 108,652
165	General Support to USD (Intelligence)	1,952	10,452	+ 8,500
	Program increase: Applied research for intelligence and security			+ 8,500
174	Defense Technology Analysis	39,774	42,774	+ 3,000
	Program increase: Technology and transition enhancement and acceleration			+ 3,000
181	ODNA Technology and Resource Analysis	2,897	4,897	+ 2,000
	Program increase: Rapidly scalable resilient communications			+ 2,000
199	Management HQ—MDA	24,102	21,702	- 2,400
	Failure to follow congressional direction			- 2,400
203	Joint Artificial Intelligence	10,033	151,197	+ 141,164
	Transfer from budget activity 08			+ 186,639
	Transfer to OMDW, line 4GT9 for proper execution: Responsible AI (RAI)			- 4,250
	Transfer to OMDW, line 4GT9 for proper execution: Strategy and Policy			- 4,775
	Program adjustment: Smart Sensor cost savings			- 8,000
	Program adjustment: Gargoyle expansion			- 9,150
	Program adjustment: Ceres duplication			- 11,300
	Program adjustment: Horae duplication			- 8,000
206	Industrial Base Analysis and Sustainment Support	58,189	159,689	+ 101,500
	Program increase: Advanced headborne systems manufacturing			+ 7,500
	Program increase: Automated textile manufacturing			+ 10,000
	Program increase: Carbon/carbon industrial base enhancement			+ 6,000
	Program increase: Defense supply chain enhancement			+ 10,000
	Program increase: Industrial skills initiative			+ 10,000
	Program increase: Interdisciplinary center for advanced manufacturing			+ 10,000
	Program increase: Machine tooling and advanced manufacturing			+ 20,000
	Program increase: Metal-organic frameworks for emerging chem-bio threats			+ 5,000
	Program increase: Rare earth elements and critical minerals recovery technique demonstration			+ 3,000
	Program increase: Submarine construction workforce training pipeline			+ 20,000
217	Minimum Essential Emergency Communications Network (MEECN)	4,892	24,892	+ 20,000
	Program increase: Center for Academic Excellence			+ 20,000
220	Information Systems Security Program	423,745	447,745	+ 24,000
	Program increase: Senior military colleges cyber institutes			+ 24,000
256	Pacific Disaster Centers	1,799	5,799	+ 4,000
	Program increase: Global water security center			+ 4,000
259	MQ-9 UAV	19,065	29,065	+ 10,000
	Program increase: Speed loader agile pod			+ 10,000
264	Warrior Systems	78,592	100,803	+ 22,211
	Program increase: Special operations fused global data analytics and visualization			+ 8,000
	Program increase: Software-defined radio waveforms			+ 10,000
	Program Increase: Maritime scalable effects acceleration			+ 4,211

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
265	Special Programs	6,486	10,486	+ 4,000
	Program increase: Overmatch visual augmentation			+ 4,000
272	Joint Artificial Intelligence	186,639		- 186,639
	Transfer to budget activity 07 for lack of budget activity 08 justification			- 186,639
999	Classified Programs	5,208,029	5,442,540	+ 234,511
	Classified adjustment			+ 234,511

Rapid Defense Experimentation Reserve.—The Committee understands that the Secretary of Defense plans to request funds under a new “Rapid Defense Experimentation Reserve” [RDER] budget line in the Research, Development, Test and Evaluation, Defense-Wide [RDDW] account in future budget submissions for prototyping and experimentation as part of a campaign of learning, and to close the “valley of death.” The Committee understands that projects funded under the RDER program would facilitate exploration and transition of technologies to full adoption by the services, and enable more rapid modernization. The Committee supports this concept, however, the Committee notes that the RDDW account already contains several budget lines for programs intended for such purposes, to include programs to bridge the “valley of death”; support high-priority, mission-aligned prototyping; address joint warfighting operational gaps; and transition technologies. Further, the Committee notes that these budget lines contain significant funding flexibility in the year of execution.

Therefore, the Committee believes that the establishment of the new RDER program should be accompanied by a critical review of these programs and projects, including, but not limited to, the Defense Modernization and Prototyping Program, the Joint Capability Technology Program, and the Rapid Prototyping Program, to ensure that funds support direct warfighter needs. The Committee recommends a realignment of some such duplicate funding into a newly established budget line only for the RDER program in fiscal year 2022, as detailed in the table of Committee Recommended Adjustments accompanying this section. Further, in order to accelerate RDER, the Committee recommends an additional \$100,000,000 for RDER in fiscal year 2022.

The Committee directs the Deputy Secretary of Defense to review the scope and purpose of existing prototyping, experimentation, and demonstration programs funded within RDDW, including but not limited to the aforementioned Defense Modernization and Prototyping Program, the Joint Capability Technology Program, and the Rapid Prototyping Program, to avoid redundancy and overlap with RDER, and to recommend adjustments to funding streams and management structures with the fiscal year 2023 President’s budget request.

Space Development Agency United States Indo-Pacific Command Missile Tracking Demonstration.—The fiscal year 2022 President’s budget request includes \$882,887,000 in the Research, Development, Test and Evaluation, Defense-Wide and Procurement, Defense-Wide accounts to develop, integrate, test, and launch 28 transport and tracking satellites as part of the Space Development

Agency's [SDA] Tranche 0 capability acquisition. Further, the budget includes funds to initiate development of SDA's Tranche 1 capability to begin filling out the proliferated National Defense Space Architecture [NDSA]. The Committee notes that subsequent to the budget submission, SDA changed the launch strategy for Tranche 1 from a "delivery on orbit" to using the National Security Space Launch [NSSL] Phase 2 contract. The Committee supports this revised approach and recommends adjustments only to reflect that revised launch strategy for Tranche 1 consistent with previous congressional direction, as detailed in the tables of Committee Recommended Adjustments accompanying this section. The Committee notes that any change to this revised launch strategy for Tranche 1 is subject to the criteria contained under the heading "National Security Space Launch" included in the "Procurement, Space Force" section of this explanatory statement.

The Committee understands that the United States Indo-Pacific Command [USINDOPACOM] has a need for additional wide and medium field of view satellites [W/MFOV] that are not included in Tranche 0 or Tranche 1 of the NDSA. These satellites provide intelligence and warning, tracking, and targeting of missile threats. The Committee recommends \$750,000,000, only for such a satellite demonstration for USINDOPACOM, to be managed and executed only by SDA. The Director, SDA is directed to provide to the congressional defense committees an updated cost estimate to address USINDOPACOM's W/MFOV requirements, to include an acquisition and contract strategy no later than 30 days after enactment of this act.

Direction regarding the procurement of launch services included elsewhere in this statement under the heading "National Security Space Launch" shall also apply to these funds.

Joint Artificial Intelligence Center.—The fiscal year 2022 President's budget request includes \$196,672,000 in Research, Development, Test and Evaluation, Defense-Wide [RDDW] for the Joint Artificial Intelligence Center [JAIC]. This includes a transfer of \$72,000,000 of funds previously funded in the Operation and Maintenance, Defense-Wide account. The Committee largely supports this transfer of funds into RDDW, with limited exceptions for proper execution, as detailed in the table of Committee Recommended Adjustments accompanying this section.

Additionally, the budget request proposes funding JAIC RDDW activities within the recently established Budget Activity 08 [BA 08] for Software and Digital Technology Pilot Programs, instead of in the JAIC's existing RDDW budget line. The Committee does not believe that JAIC's RDDW budget request meets the criteria for BA 08 programs as previously defined and does not support this request.

Further, the Committee is concerned that the JAIC is focusing too many resources on projects that should be funded by the military services, and not on the foundational elements of Artificial Intelligence [AI] and AI-enabling technical services and infrastructure in order to establish the AI ecosystem for the Department of Defense. The Committee understands that the Deputy Secretary of Defense is reviewing the Department's AI posture and expects to

see a change in the JAIC's priorities and associated funding with the fiscal year 2023 President's budget request.

DARPA Assault Breaker II.—The fiscal year 2022 President's budget request includes \$51,154,000 for DARPA's Assault Breaker II [AB II] initiative. The Committee recommends an additional \$50,000,000 only to increase AB II development pace in the United States Indo-Pacific Command, increase the pace of experiments, and enhance the modeling and simulation environment. The Committee includes further direction with respect to AB II in the classified annex accompanying this act.

DARPA Hypersonics and Space Risk Reduction.—The fiscal year 2022 President's budget request includes \$121,067,000 for DARPA to continue risk reduction, development, and testing of hypersonics weapons and space capabilities, to include the Hypersonic Air-Breathing Weapon Concept, Tactical Boost Glide, Blackjack, and Robotic Servicing of Geosynchronous Satellites. The Committee recommends an additional \$100,000,000, the amount executable in fiscal year 2022, only for these programs in Research, Development, Test and Evaluation, Defense-Wide program elements 0602386E and 0603287E, and directs that none of the additional funds may be obligated or expended until 60 days after the Director, DARPA, in coordination with the respective transition service leads, briefs the congressional defense committees on a spend plan and schedule for these funds, to include partner funding and transition plans.

DARPA Quantum Computing Acceleration.—The Committee recommends an additional \$60,000,000 for DARPA only to evaluate disruptive designs for utility-scale, fault-tolerant quantum computers, with a specific focus on systems that can be constructed in less than 10 years using non-traditional quantum computing approaches.

DARPA Electronics Resurgence Initiative 2.0.—The fiscal year 2022 President's budget request includes \$330,500,000 for DARPA's Electronics Resurgence Initiative 2.0 [ERI 2.0]. ERI 1.0 aimed to forge forward-looking collaborations among the commercial electronics community, the defense industrial base, university researchers, and the Department of Defense to ensure far-reaching improvements in electronics performance. The Committee understands that under ERI 2.0, DARPA will build on these efforts and continue investment in dual-use research, adding new areas relevant to manufacturing and national security. The Committee recommends an additional \$80,000,000, the amount executable in fiscal year 2022, to accelerate ERI 2.0 and directs that none of the additional funds may be obligated or expended until 60 days after the Director, DARPA, briefs the congressional defense committees on a strategy for ERI 2.0, to include an update on collaborations established under ERI and DARPA's role within the Department of Defense microelectronics enterprise and strategy.

DARPA Artificial Intelligence, Cyber and Data Analytics.—The Committee recommends an additional \$70,000,000 for DARPA only to initiate new and follow-on efforts in cyber and artificial intelligence [AI], data offset and security, self-learning systems, and AI measurement science; as well as efforts that focus on enabling enhancements to the practice of secure software systems engineering,

with an emphasis on coupling increases in agility with increases in evidence-based assurance judgments.

Research, Development, Test and Evaluation, Defense-Wide Program Element Structure.—The fiscal year 2022 President’s budget request proposes the consolidation of several smaller budget lines/projects into larger budget lines, and proposes substantial growth for several budget lines that contain significant internal funding execution flexibility. This particularly impacts the Defense Threat Reduction Agency and Chemical Biological Defense Program budget lines. Given the critical nature of these agencies’ missions the Committee recommendation supports these respective budget requests. However, the Committee directs the Under Secretary of Defense (Comptroller) and the Director, Cost Assessment and Program Evaluation to review the program element structure of the Research, Development, Test and Evaluation, Defense-Wide appropriations account to inform the fiscal year 2023 President’s budget request.

Multi-Actor Deterrence Methodology.—As the global security landscape becomes more challenging, competitive and characterized by multi-polarity, the Committee believes new methodologies and models to assess complex multi-actor interactions could be of increasing value, with particular application to deterrence frameworks. Further, the Committee is aware of a growing body of academic work in this field, which could benefit policymakers. Therefore, the Committee encourages the Secretary of Defense to review tools to enhance the Department’s ability to assess and understand multi-actor relationships related to deterrence.

Materials Science in Extreme Environments.—The Committee recognizes the importance of the Department of Defense’s Materials Science in Extreme Environments program, which expands research, education, and technology development efforts to counter weapons of mass destruction. Strengthening domestic research capability is vital to maintaining the United States’ technical superiority and responding to emerging threats. The Committee encourages the Secretary of Defense to continue to support this important program.

Cyber Education Diversity Initiative.—The Committee directs the Secretary of Defense to provide to the congressional defense committees a report on the scope, scale, and impact of the Cyber Education Diversity Initiative with submission of the fiscal year 2023 President’s budget request. The report should detail the number and nature of participating institutions, funds expended in support of the initiative, and an initial evaluation of the impact on cyber education and career opportunities for minority and low-income students.

Brain Prosthetic Interface.—The Committee notes the success of DARPA’s Next-Generation Nonsurgical Neurotechnology program to develop high-performance brain-machine interfaces for servicemembers without requiring the implant of electrodes directly into the brain. The Committee understands that the program also presents the opportunity to help wounded warriors control their own limbs via muscle stimulation/rehabilitation and regain independence without invasive surgery. The Committee believes there is benefit in collaboration between DARPA and the Depart-

ment of Veterans Affairs [VA] in developing and testing neurotechnology for veteran movement rehabilitation, and encourages DARPA and VA to collaborate on these efforts.

3D Carbon/Carbon Hypersonic Materials Industrial Base.—The fiscal year 2022 President's budget request includes \$12,900,000 for the Manufacturing of Carbon/Carbon Composites for Hypersonic Applications [MOC3HA] initiative. The Committee recommends full funding of this request and encourages the Secretary of Defense to partner with industry that have demonstrated capabilities in these areas.

Advanced Structural Manufacturing Technologies.—The Committee understands that to accelerate the delivery of technical capabilities to impact the warfighter and to advance technologies in a timely manner, additional development is required on advanced additive manufacturing technologies utilizing cold spray.

Establishing the Textile Industry of the Future.—The Committee recognizes the necessity of a strong domestic textile industrial base capable of manufacturing state-of-the-art products that will support warfighter operations in a multi-domain environment. The Committee encourages the Secretary of Defense to continue investments into manufacturing operations for functional fabrics and textiles that directly support continuing domestic leadership of this industry and ensure the availability of these essential items for the battlespace of the future.

Manufacturing Technology Program.—The Committee notes that steel is a critical and enabling material for the performance of defense equipment and encourages investments in steel alloy development and manufacturing technology to maintain warfighter preparedness and a strong industrial base.

Department of Defense Corrosion Program.—The Committee understands that it costs the Department of Defense approximately \$21,000,000,000 annually to prevent and mitigate corrosion of its assets, including military equipment, weapons, facilities, and other infrastructure. The Committee encourages the Secretary of Defense to review the Department's oversight and management structure of corrosion policy.

Defense Technology Analysis.—The Committee recommends \$3,000,000 for technology and transition enhancement and acceleration, and supports increased use of a partnership intermediary as defined in 15 U.S.C. 3715, to seek out, assess, and engage non-traditional small business vendors in Department of Defense development and acquisition efforts. The effort should engage a partnership intermediary with a successful history of leveraging non-Department of Defense networks and using innovative means to seek out, identify, qualify, and help to interest new and non-traditional small business and manufacturers in sharing their innovations with the Department of Defense.

Propulsor Material Technologies.—The Committee understands that utilizing advanced technologies to increase operational readiness will result in a force that is more lethal, versatile, survivable, and sustainable. The Committee also recognizes that advanced manufacturing and the use of new materials, such as additive and nonmetallic materials, can offer unique advantages over traditional materials. The Committee notes the role of university research in-

stitutions in performing research that will translate into technological capabilities that can assist the Department of Defense to address technical and engineering challenges encountered when utilizing these advanced materials, particularly in the area of propulsor components.

Transition of Defense Electronics to Lead-Free Materials.—The Committee notes that since 2006, most commercial electronic equipment production has converted to lead-free materials and processes. Despite this change to lead-free electronics, the aerospace, defense, and high-performance industries [ADHP] continue to rely heavily on lead-based components and assembly processes in critical applications. However, since lead-based components for defense electronics have become increasingly difficult and expensive for the Department of Defense to procure, the transition to lead-free is critical. Further, the electronics migration away from lead, combined with higher levels of integration, present supply chain issues related to component availability and cost while undermining Department’s technology superiority. The Committee encourages the Department of Defense to fund a public-private partnership with industry and academia to develop and characterize solders and components to enable extremely reliable lead-free printed circuit and electronic assemblies for the ADHP electronics supply chain.

National Security Agency National Cryptologic School.—The Committee supports the National Security Agency [NSA] National Cryptologic School program to enable workforce transformation through certificate-based courses on cybersecurity and artificial intelligence that are offered by Center of Academic Excellence [CAE] universities. The Committee understands that this program will develop courses and curricula with technology partners and provide funding for select NSA CAE universities to offer these courses and receive tuition reimbursement for participation in the courses.

National Background Investigation Services—Software Pilot Program.—The Committee notes the importance of modernizing the National Background Investigation System and supports the use of artificial intelligence, machine learning, and data integration to achieve this goal.

OPERATIONAL TEST AND EVALUATION, DEFENSE

Budget estimate, 2022	\$216,591,000
Committee recommendation	276,591,000

The Committee recommends an appropriation of \$276,591,000. This is \$60,000,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATIONAL TEST AND EVALUATION, DEFENSE			
	RDT&E MANAGEMENT SUPPORT			
1	OPERATIONAL TEST AND EVALUATION	105,394	105,394	.....
2	LIVE FIRE TEST AND EVALUATION	68,549	103,549	+ 35,000
3	OPERATIONAL TEST ACTIVITIES AND ANALYSES	42,648	67,648	+ 25,000
	TOTAL, RDT&E MANAGEMENT SUPPORT	216,591	276,591	+ 60,000
	TOTAL, OPERATIONAL TEST AND EVALUATION, DEFENSE	216,591	276,591	+ 60,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
1	Operational Test and Evaluation	105,394	105,394	.....
2	Live Fire Test and Evaluation	68,549	103,549	+ 35,000
	Program increase: Lab and test range upgrades—space			+ 9,000
	Program increase: Lab and test range upgrades—electromagnetic spectrum			+ 13,000
	Program increase: Lab and test range upgrades—hypersonics			+ 7,000
	Program increase: Lab and test range upgrades—targets			+ 6,000
3	Operational Test Activities and Analyses	42,648	67,648	+ 25,000
	Program increase: Lab and test range upgrades—directed energy			+ 12,000
	Program increase: Lab and test range upgrades—targets			+ 13,000
	Total, Operational Test and Evaluation, Defense	216,591	276,591	+ 60,000

Certification of Funding for Test Infrastructure and Test Event Resources.— The Committee is concerned that funding required for test and evaluation infrastructure, assets, and personnel is routinely placed at risk by the Department of Defense and the services during the budget planning and formulation process. Therefore, the Committee directs the Director, Operational Test and Evaluation to assess and certify to the congressional defense committees with submission of the fiscal year 2023 President's budget request that the Department of Defense's and services' test infrastructure, assets, and personnel are fully funded in the budget year and the Future Years Defense Program to support agreed-upon Test and Evaluation Master Plans for major defense acquisition programs and test assessments for prototyping programs; and, where applicable, to identify shortfalls by service and program.

Oversight of Rapid Prototyping and Rapid Fielding Programs.— In accordance with the Joint Explanatory Statement accompanying the Department of Defense Appropriations Act, 2021 (Public Law 116–260), 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 2022 President's budget request an assessment of test strategies for all current and proposed acquisition programs using "section 804" middle-tier acquisition authorities [MTA]. 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 statement under the heading "Reporting on Middle-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 certain programs using section 804 acquisition authorities and/or rapid prototyping authorities. The Committee is encouraged that the fiscal year 2022 President's budget request includes \$12,000,000 for DOT&E specifically for DOT&E MTA oversight and 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.

Browser Plugin Security Research.—The Committee recognizes the ever-evolving threat of cyberattacks to the Department of Defense and the challenges posed to personnel, operations, networks, and systems that are vulnerable to cyber intrusions. With increased cyber risk and vulnerability from web-based browsers and plugins that do not have defined rules or requirements, the Committee recommends browser security research to inform Department of Defense personnel and to protect, deter, and defeat cyberattacks on defense networks and systems. The Committee urges the Department to work with academia to advance research in support of national security as well as provide applied learning opportunities for cyber talent for the Department.

TITLE V
REVOLVING AND MANAGEMENT FUNDS

DEFENSE WORKING CAPITAL FUNDS

Budget estimate, 2022 \$1,902,000,000
Committee recommendation 2,027,000,000

The Committee recommends an appropriation of \$2,027,000,000.
This is \$125,000,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	Industrial Operations	26,935	151,935	+ 125,000
	Program increase: Arsenal Initiative .....	.....	.....	+ 125,000
	Supply Management	357,776	357,776	.....
	Total, Defense Working Capital Fund, Army	384,711	509,711	+ 125,000
	Supply Management	150,000	150,000	.....
	Total, Defense Working Capital Fund, Navy	150,000	150,000	.....
	Supplies and Materials	77,453	77,453	.....
	Total, Defense Working Capital Fund, Air Force	77,453	77,453	.....
	Defense Logistics Agency–Energy Management	40,000	40,000	.....
	Defense Logistics Agency–Supply Chain Management	87,765	87,765	.....
	Total, Defense Working Capital Fund, Defense-wide	127,765	127,765	.....
	Commissary Operations	1,162,071	1,162,071	.....
	Total, Defense Working Capital Fund, Defense-wide, DECA	1,162,071	1,162,071	.....
	Grand Total, Defense Working Capital Funds	1,902,000	2,027,000	+ 125,000

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

Budget estimate, 2022 \$35,592,407,000
 Committee recommendation 36,206,487,000

The Committee recommends an appropriation of \$36,206,487,000.
 This is \$614,080,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
	DEFENSE HEALTH PROGRAM			
	OPERATION AND MAINTENANCE			
10	IN-HOUSE CARE	9,720,004	9,522,742	- 197,262
20	PRIVATE SECTOR CARE	18,092,679	17,786,547	- 306,132
30	CONSOLIDATED HEALTH SUPPORT	1,541,122	1,478,072	- 63,050
40	INFORMATION MANAGEMENT	2,233,677	2,228,622	- 5,055
50	MANAGEMENT ACTIVITIES	335,138	333,138	- 2,000
60	EDUCATION AND TRAINING	333,234	333,234	.....
70	BASE OPERATIONS/COMMUNICATIONS	1,926,865	1,915,797	- 11,068
	UNDISTRIBUTED REDUCTION—EXCESS TO NEED .....	.....	.....	.....
	UNDISTRIBUTED INCREASE (AMENDMENTS) .....	.....	.....	.....
	SUBTOTAL, OPERATION AND MAINTENANCE	34,182,719	33,598,152	- 584,567
	PROCUREMENT			
150	INITIAL OUTFITTING	20,926	20,926	.....
160	REPLACEMENT AND MODERNIZATION	250,366	250,366	.....
170	JOINT OPERATIONAL MEDICINE INFORMATION SYSTEM			
180	MILITARY HEALTH SYSTEM—DESKTOP TO DATACENTER	72,302	72,302	.....
180	DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION	435,414	415,114	- 20,300
	SUBTOTAL, PROCUREMENT	779,008	758,708	- 20,300
	RESEARCH DEVELOPMENT TEST AND EVALUATION			
80	RESEARCH	9,091	9,091	.....
90	EXPLORATORY DEVELOPMENT	75,463	85,463	+ 10,000
100	ADVANCED DEVELOPMENT	235,556	235,556	.....
110	DEMONSTRATION/VALIDATION	142,252	142,252	.....
120	ENGINEERING DEVELOPMENT	101,054	98,301	- 2,753
130	MANAGEMENT AND SUPPORT	49,645	49,645	.....
140	CAPABILITIES ENHANCEMENT	17,619	17,619	.....
150	UNDISTRIBUTED MEDICAL RESEARCH .....	.....	1,211,700	+ 1,211,700
	SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION	630,680	1,849,627	+ 1,218,947

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, DEFENSE HEALTH PROGRAM	35,592,407	36,206,487	+ 614,080

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	OPERATION AND MAINTENANCE	34,182,719	33,598,152	- 584,567
10	In-House Care	9,720,004	9,522,742	- 197,262
	Unjustified cost growth			- 40,900
	Excess funding for capability replacement			- 104,462
	Medical care contracts excess growth			- 51,900
20	Private Sector Care	18,092,679	17,786,547	- 306,132
	Unjustified cost growth			- 90,900
	Inflationary overestimation			- 191,432
	Unjustified support services growth			- 23,800
30	Consolidated Health Support	1,541,122	1,478,072	- 63,050
	Unjustified cost growth			- 21,900
	Medical care contracts excess growth			- 44,650
	Program increase: Anomalous health incidents care capacity			+ 3,500
40	Information Management	2,233,677	2,228,622	- 5,055
	DHMSM excess growth			- 5,055
50	Management Activities	335,138	333,138	- 2,000
	Equipment purchases excess growth			- 2,000
60	Education and Training	333,234	333,234	
70	Base Operations and Communications	1,926,865	1,915,797	- 11,068
	Equipment purchases excess growth			- 11,068
	PROCUREMENT	779,008	758,708	- 20,300
150	Initial Outfitting	20,926	20,926	
160	Replacement and Modernization	250,366	250,366	
180	Military Health System—Desktop to Datacenter	72,302	72,302	
180	DOD Health Management System Modernization	435,414	415,114	- 20,300
	Funding carryover			- 20,300
	RESEARCH AND DEVELOPMENT	630,680	1,849,627	+ 1,218,947
80	Research	9,091	9,091	
90	Exploratory Development	75,463	85,463	+ 10,000
	Program increase: Armed Forces Institute of Regenerative Medicine III			+ 10,000
100	Advanced Development	235,556	235,556	
110	Demonstration/Validation	142,252	142,252	
120	Engineering Development	101,054	98,301	- 2,753
	DHMSM funding carryover			- 2,753
130	Management and Support	49,645	49,645	
140	Capabilities Enhancement	17,619	17,619	
150	Undistributed Medical Research		1,211,700	+ 1,211,700
	Restore core funding reduction			+ 257,200
	Peer-reviewed ALS research			+ 40,000
	Peer-reviewed breast cancer research			+ 130,000
	Peer-reviewed cancer research			+ 130,000
	Peer-reviewed epilepsy research			+ 12,000
	Peer-reviewed medical research			+ 370,000
	Peer-reviewed melanoma research			+ 40,000
	Peer-reviewed ovarian cancer research			+ 15,000
	Peer-reviewed prostate cancer research			+ 75,000
	Peer-reviewed rare cancers research			+ 17,500
	Peer-reviewed traumatic brain injury and psychological health research			+ 70,000
	Chronic pain management			+ 15,000

[In thousands of dollars]

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	Joint warfighter medical research .....	.....	.....	+ 25,000
	Orthotics and prosthetics outcomes research .....	.....	.....	+ 15,000
	Total	35,592,407	36,206,487	+ 614,080

Defense Health Program Reprogramming Procedures.—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 \$10,000,000 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 2022, 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 2021 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 continue 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 notes that electronic health record deployment timeline is dependent on a robust information technology program. Therefore, 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 Interagency 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 of Representatives 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 Director of the IPO to continue to provide quarterly reports to the House of Representatives 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.—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 admin-

istration 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 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.

Traumatic Brain Injury/Psychological Health.—The Committee recommends \$70,000,000 above the fiscal year 2022 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.

The Committee remains supportive of the Traumatic Brain Injury and Psychological Health Research Program's [TBIPHRP] continued research examining the increased risk of certain conditions after an individual experiences TBI, and encourages the TBIPHRP to invest in research and development to identify a profile of biomarkers that may predict secondary complications such as sepsis and multiple organ failure.

The Committee is also encouraged by the progress and results of the Team Approach to the Prevention and Treatment of Post-Traumatic Epilepsy [TAPTE] Initiative funded by the TBIPHRP. In the last decade, more than 400,000 military personnel were diagnosed with TBI, and a study of veterans who served in Afghanistan and Iraq demonstrated that this population was 19 times more likely to develop post-traumatic epilepsy [PTE] than those without TBI. The Committee encourages the TBIPHRP to continue the TAPTE Initiative, expanding the program to its next phase focused on providing innovative research tools and identifying definitive biomarkers to pinpoint who will develop PTE following TBI.

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. Finally, 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, dystonia, eating disorders, emerging viral diseases, endometriosis, epidermolysis bullosa, familial hypercholesterolemia, fibrous dysplasia, focal segmental glomerulosclerosis, food allergies, Fragile X, frontotemporal degeneration, Guillain-Barre syndrome, gulf war illness, hemorrhage control, hepatitis B, hydrocephalus, hypercholesterolemia, hypertension, inflammatory bowel diseases, interstitial cystitis, lupus, malaria, metals toxicology, mitochondrial disease, multiple sclerosis, myalgic encephalomyelitis/chronic fatigue syndrome, myeloma, myotonic dystrophy, nephrotic syndrome, 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, pulmonary fibrosis, reconstructive transplantation, respiratory health, Rett syndrome, rheumatoid arthritis, sleep disorders and restriction, suicide prevention, sustained release drug delivery, tick-borne diseases, trauma, tuberous sclerosis complex, vision, vascular malformations, 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, \$75,000,000 for the peer-reviewed prostate cancer research program, \$40,000,000 for a peer-reviewed melanoma research program, \$15,000,000 for the peer-reviewed ovarian cancer research program, \$17,500,000 for a peer-reviewed rare cancers research program, and \$130,000,000 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; endometrial cancer; esophageal cancer; kidney cancer; liver cancer; lung cancer; lymphoma, mesothelioma, metastatic cancer, neuroblastoma; pancreatic cancer; pediatric brain tumors; pediatric, adolescent, and young adult cancers; stomach cancer; and Von Hippel-Lindau syndrome.

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 collabo-

rate 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 \$40,000,000 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.

Armed Forces Institute of Regenerative Medicine.—The Committee is aware of the many emerging breakthrough treatments for severely wounded servicemembers that have resulted from the Army's leadership in pioneering an institute-led consortium approach to productivity in the field of regenerative medicine. Therefore, based upon the most effective features of the historic successful models of the Armed Forces Institute of Regenerative Medicine [AFIRM] I and II, the Committee provides \$10,000,000 to the Department of Defense to establish the AFIRM III. AFIRM is a multi-institutional, interdisciplinary network of universities, military laboratories and investigators that is designed to promote a seamless integration of development, from basic science research through translational and clinical research, as the best means of bringing regenerative medicine therapies to practice. The Committee encourages the Department to resume funding in its fiscal year 2023 budget request for AFIRM III, to sustain and build upon the success of the program.

Department of Defense Controlled Access to Health Information.—The Committee is concerned that an Office of Inspector General [OIG] Report found that the Department of Defense [DOD] did not effectively control the access to health information of certain DOD personnel, moreover, that multiple unauthorized viewers were subsequently in violation of the Health Insurance Portability and Accountability Act and DOD Guidance. The security of our military personnel's health and other private information is of vital importance. Therefore, the Committee expects the Defense Health agency [DHA] to adequately budget for any unmet security needs in its Information and Technology budget activity group. The Committee encourages the DHA to comply with the OIG report recommendations. Furthermore, the Committee directs the DHA to submit a report not later than 180 days after the enactment of this Act to the defense committees detailing the implementation of stated recommendations and any additional cybersecurity measures taken as a result of the report's other detailed findings.

CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

Budget estimate, 2022 \$1,094,352,000
 Committee recommendation 1,094,352,000

The Committee recommends an appropriation of \$1,094,352,000.
 This is equal to the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

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

(In thousands of dollars)

Line	Item	2022 budget estimate	Committee recommendation	Change from budget estimate
	CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE			
1	CHEM DEMILITARIZATION—OPERATION AND MAINTENANCE	93,121	93,121	.....
2	CHEM DEMILITARIZATION—RESEARCH, DEVELOPMENT, TEST AND EVALUATION	1,001,231	1,001,231	.....
	TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE	1,094,352	1,094,352	.....

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

Budget estimate, 2022 \$821,908,000
 Committee recommendation 939,149,000

The Committee recommends an appropriation of \$939,149,000.
 This is \$117,241,000 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	2022 budget estimate	Committee recommendation	Change from budget estimate
010	Counter-Narcotics Support	593,250	593,250	.....
020	Drug Demand Reduction Program	126,024	126,024	.....
030	National Guard Counter-Drug Program	96,970	194,211	+ 97,241
	Program increase			+ 97,241
040	National Guard Counter-Drug Schools	5,664	25,664	+ 20,000
	Program increase			+ 20,000
	Total, Drug Interdiction and Counter-Drug Activities	821,908	939,149	+ 117,241

OFFICE OF THE INSPECTOR GENERAL

Budget estimate, 2022 \$438,363,000
 Committee recommendation 438,363,000

The Committee recommends an appropriation of \$438,363,000.
 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	2022 budget estimate	Committee recommendation	Change from budget estimate
Office of the Inspector General, Operation and Maintenance	434,700	434,700	.....
Office of the Inspector General, Operation and Maintenance-CYBER	1,218	1,218	.....
Office of the Inspector General, Procurement	80	80	.....
Office of the Inspector General, Research and Development	2,365	2,365	.....
Total, Office of the Inspector General	438,363	438,363	.....

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

Budget estimate, 2022	\$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

Budget estimate, 2022	\$634,000,000
Committee recommendation	610,370,000

The Committee recommends an appropriation of \$610,370,000.
This is \$23,630,000 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 and modifies a provision carried in previous years.

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

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

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

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

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

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

SEC. 8021. *Walking Shield.*—Retains a provision carried in previous years.

SEC. 8022. *Tribal Lands Environmental Impact.*—Retains a provision carried in previous years.

SEC. 8023. *Defense Media Activity.*—Retains a provision carried in previous years.

SEC. 8024. *Strategic Delivery Vehicles.*—Retains a provision carried in previous years.

SEC. 8025. *Funding to Maintain Competitive Rates at Arsenals.*—Retains and modifies a provision carried in previous years.

SEC. 8026. *Civil Air Patrol.*—Retains and modifies a provision carried in previous years.

SEC. 8027. *Federally Funded Research and Development Centers.*—Retains and modifies a provision carried in previous years.

SEC. 8028. *Congressional Defense Committee Definition.*—Retains a provision carried in previous years.

SEC. 8029. *Congressional Intelligence Committee Definition.*—Retains a provision carried in previous years.

SEC. 8030. *Depot Maintenance Competition.*—Retains a provision carried in previous years.

SEC. 8031. *Buy American Act Compliance.*—Retains a provision carried in previous years.

SEC. 8032. *Carbon, Alloy, or Armor Steel Plate.*—Retains a provision carried in previous years.

SEC. 8033. *Buy American Waivers.*—Retains and modifies a provision carried in previous years.

SEC. 8034. *National Defense Stockpile Transaction Fund.*—Inserts a new provision providing appropriations for the acquisition and retention of certain materials.

SEC. 8035. *Buy American Computers.*—Retains a provision carried in previous years.

SEC. 8036. *Reciprocal Trade Agreements.*—Retains a provision carried in previous years.

SEC. 8037. *Flag Protection.*—Retains and modifies a provision carried in previous years.

SEC. 8038. *Overseas Military Facility Investment.*—Retains a provision carried in previous years.

SEC. 8039. *Investment Item Unit Cost.*—Retains and modifies a provision carried in previous years.

SEC. 8040. *Restriction of Funds for the Retirement of RQ-4 Global Hawk Block 40 Aircraft.*—Retains and modifies a provision carried in previous years.

SEC. 8041. *Asia-Pacific Regional Initiative.*—Retains and modifies a provision carried in previous years.

SEC. 8042. *Tobacco Use in the Military.*—Retains a provision carried in previous years.

SEC. 8043. *Working Capital Fund Investment Item Restrictions.*—Retains and modifies a provision carried in previous years.

SEC. 8044. *CIA Availability of Funds.*—Retains and modifies a provision carried in previous years.

SEC. 8045. *Field Operating Agencies.*—Retains and modifies a provision carried in previous years.

SEC. 8046. *Contractor Conversion and Performance.*—Retains a provision carried in previous years.

SEC. 8047. *Rescissions.*—The Committee recommends a general provision rescinding funds from prior years as displayed below:

	Amount
2020 Appropriations	
Other Procurement, Navy:	
Small & Medium UUV	\$3,500
Aircraft Procurement, Air Force:	
Combat Rescue Helicopter	18,200
Target Drones	9,741
B-1B	5,488
F-15	14,984
F-22A	21,842
T-1	7,640
C-130J Mods	6,097
C-135	12,592
E-4	13,341
Initial Spares/Repair Parts	4,200
2021 Appropriations	
Operation and Maintenance, Defense-Wide	
Office of Economic Adjustment—Noise Mitigation Communities Partnership	5,000
DSCA Border Security	100,000
Afghanistan Security Forces Fund	500,000
Counter-ISIS Train and Equip Fund	355,000
Procurement of Ammunition, Army:	
Cartridges, Tank, 105MM And 120MM, All Types	50,000
Shoulder Launched Munitions, All Types	23,788
CAD/PAD, All Types	3,466
Aircraft Procurement, Navy:	
CH-53K	36,572
Procurement of Ammunition, Navy and Marine Corps:	
JDAM	30,000
Shipbuilding and Conversion, Navy:	
DDG-51	130,000
Other Procurement, Navy:	
LHA/LHD midlife	3,014
Procurement, Marine Corps:	
Radio Systems	219,057
Aircraft Procurement, Air Force:	
F-15EX	76,856
KC-46A MDAP	88,170
MC-130J	207,806
MH-139A	194,016
Combat Rescue Helicopter	17,600
B-52	9,100
A-10	39,000
F-16	16,187
F-22A	15,810
F-35 Modifications	5,079
T-6	2,700
C-130	1,980
Initial Spares/Repair Parts	131,177
Procurement, Space Force:	
GPS III Follow-on	18,000
National Security Space Launch	27,700
Procurement of Ammunition, Air Force	
JDAM	436,791
Other Procurement, Air Force:	
Medium Tactical Vehicle	3,400
Combat Training Ranges	20,990
Classified Adjustment	157,500
Research, Development, Test and Evaluation, Army:	

	Amount
Technology Maturation Initiatives	16,663
Infantry Support Weapons	14,200
Brilliant Anti-Armor Submunition	19,251
Weapons and Munitions—Eng Dev	6,843
Landmine Warfare/Barrier—Eng Dev	1,925
155mm Self-Propelled Howitzer Improvements	22,709
Suite of Survivability Enhancement Systems—EMD	10,850
Research, Development, Test and Evaluation, Navy:	
Next Generation Jammer, Increment II	51,500
Research, Development, Test and Evaluation, Air Force:	
Classified Adjustment	15,000
Research, Development, Test and Evaluation, Space Force:	
Next-Generation OPIR	132,368
Ballistic Missile Defense Radars	14,000
Research, Development, Test and Evaluation, Defense-Wide:	
Microelectronics restructure, BA 4	14,451
Microelectronics restructure, BA 5	8,216
DARPA	100,000
Classified Adjustment	42,000
BASE TOTAL	3,513,360

SEC. 8048. *Civilian Technician Reductions*.—Retains a provision carried in previous years.

SEC. 8049. *North Korea*.—Retains a provision carried in previous years.

SEC. 8050. *Reserve Component Intelligence Reimbursement*.—Retains and modifies to make permanent a provision carried in previous years.

SEC. 8051. *Counter-Drug Activities Transfer*.—Retains a provision carried in previous years.

SEC. 8052. *United Service Organizations Grant*.—Retains and modifies a provision carried in previous years.

SEC. 8053. *Small Business Set-Asides*.—Retains a provision carried in previous years.

SEC. 8054. *Contractor Bonuses*.—Retains a provision carried in previous years.

SEC. 8055. *Reserve Peacetime Support*.—Retains a provision carried in previous years.

SEC. 8056. *Unexpended Balances*.—Retains and modifies a provision carried in previous years.

SEC. 8057. *National Guard Distance Learning*.—Retains a provision carried in previous years.

SEC. 8058. *Sexual Assault Prevention Programs*.—Retains and modifies a provision carried in previous years.

SEC. 8059. *End-Item Procurement*.—Retains and modifies a provision carried in previous years.

SEC. 8060. *Military Family Housing*.—Retains a provision carried in previous years.

SEC. 8061. *Joint Capability Demonstration Project*.—Retains a provision carried in previous years.

SEC. 8062. *Secretary of Defense Reporting Requirement*.—Retains and modifies a provision carried in previous years.

SEC. 8063. *Missile Defense Authorization*.—Retains a provision carried in previous years.

SEC. 8064. *Armor-Piercing Ammo*.—Retains a provision carried in previous years.

SEC. 8065. *Personal Property Lease Payments*.—Retains a provision carried in previous years.

SEC. 8066. *Classified O&M, Army Transfer*.—Retains and modifies a provision carried in previous years.

SEC. 8067. *National Intelligence Program Separation*.—Retains and modifies a provision carried in previous years.

SEC. 8068. *Tactical Artificial Intelligence*.—Inserts a new provision providing appropriations for tactical artificial intelligence capabilities at the combatant commands.

SEC. 8069. *Fisher House Authorization*.—Retains a provision carried in previous years.

SEC. 8070. *O&M, Navy Transfer to Stennis Center*.—Retains and modifies a provision carried in previous years.

SEC. 8071. *Assignment of Forces*.—Retains and modifies a provision carried in previous years.

SEC. 8072. *Rapid Acquisition Authority Reporting Requirement*.—Retains and modifies a provision carried in previous years.

SEC. 8073. *Israeli Cooperative Programs*.—Retains and modifies a provision carried in previous years.

SEC. 8074. *Prior Year Shipbuilding*.—Retains and modifies a provision carried in previous years.

SEC. 8075. *Intelligence Authorization*.—Retains and modifies a provision carried in previous years.

SEC. 8076. *New Start Authority*.—Retains a provision carried in previous years.

SEC. 8077. *Artificial Intelligence Acquisition Workforce*.—Inserts a new provision providing appropriations for the recruitment and training of an artificial intelligence-literate acquisition workforce.

SEC. 8078. *Nuclear Armed Interceptors*.—Retains a provision carried in previous years.

SEC. 8079. *Rapid Acquisition Authority*.—Retains a provision carried in previous years.

SEC. 8080. *53rd Weather Reconnaissance Squadron*.—Retains a provision carried in previous years.

SEC. 8081. *Integration of Foreign Intelligence*.—Retains a provision carried in previous years.

SEC. 8082. *Army Tactical UAVs*.—Retains a provision carried in previous years.

SEC. 8083. *DNI Availability of Funds Waiver*.—Retains and modifies a provision carried in previous years.

SEC. 8084. *Shipbuilding Obligations*.—Retains a provision carried in previous years.

SEC. 8085. *DNI Reprogramming Baseline*.—Retains and modifies a provision carried in previous years.

SEC. 8086. *Defense Acquisition Workforce Development Account*.—Retains and modifies a provision regarding reprogramming authorities.

SEC. 8087. *NIP New Starts, Transfers, and Terminations*.—Retains a provision carried in previous years.

SEC. 8088. *Fuel*.—Inserts a new provision related to higher than anticipated fuel costs.

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 a provision carried in previous years.

SEC. 8092. *Vehicle Procurement.*—Retains and modifies 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. *Revised Economic Assumptions.*—Inserts a new provision to reflect revised economic assumptions.

SEC. 8096. *Public Disclosure of Grant Agreement.*—Retains a provision carried in previous years.

SEC. 8097. *Restrictions on NSA.*—Retains a provision carried in previous years.

SEC. 8098. *Transfers to Another Federal Agency.*—Retains a provision carried in previous years.

SEC. 8099. *Authority to Transfer O&M, Navy Funds to Ready Reserve Force, Maritime Administration Account.*—Retains and modifies a provision carried in previous years.

SEC. 8100. *Support to Foreign Countries.*—Retains a provision carried in previous years.

SEC. 8101. *T–AO Oiler Program.*—Retains and modifies a provision carried in previous years.

SEC. 8102. *Rapid Prototyping with DAWDA.*—Retains a provision carried in previous years.

SEC. 8103. *Blocking Pornography on Computers.*—Retains a provision carried in previous years.

SEC. 8104. *Prohibition on Use of Equipment for Ceremonial Honors.*—Retains a provision carried in previous years.

SEC. 8105. *Modification of Six F–35s.*—Retains and modifies a provision carried in previous years.

SEC. 8106. *Integrity in Federal Contracting.*—Retains a provision carried in previous years.

SEC. 8107. *Background Investigations Advance Billing.*—Retains and modifies a provision carried in previous years.

SEC. 8108. *Use of Title I Military Personnel funding for Space Force.*—Retains and modifies a provision carried in previous years.

SEC. 8109. *Software and digital technology pilot.*—Retains and modifies a provision carried in previous years.

SEC. 8110. *Military Aviation Noise Mitigation.*—Retains and modifies a provision carried in previous years.

SEC. 8111. *Coalition Lift and Sustainment.*—Retains and modifies a provision carried in previous years.

SEC. 8112. *U.N. Convention Against Torture.*—Retains a provision carried in previous years.

SEC. 8113. *Ukraine Security Assistance Initiative.*—Retains and modifies a provision carried in previous years.

SEC. 8114. *Burden Sharing With Kuwait.*—Retains a provision carried in previous years.

SEC. 8115. *Security Cooperation.*—Retains and modifies a provision carried in previous years.

SEC. 8116. *Border Security*.—Retains and modifies a provision carried in previous years.

SEC. 8117. *War Powers Resolution*.—Retains a provision carried in previous years.

SEC. 8118. *Child Soldiers*.—Retains a provision carried in previous years.

SEC. 8119. *Taliban*.—Inserts a new provision prohibiting funds to any member of the Taliban.

SEC. 8120. *Support to Friendly Foreign Countries*.—Retains a provision carried in previous years.

SEC. 8121. *Rosoboronexport*.—Retains a provision carried in previous years.

SEC. 8122. *Israeli Iron Dome Defense System*.—Inserts a provision providing resources for the government of Israel's procurement of the Iron Dome defense system.

**DIVISION C—MILITARY CONSTRUCTION AND VETERANS
AFFAIRS—ADDITIONAL APPROPRIATIONS ACT, 2022**

TITLE I

MILITARY CONSTRUCTION

SUMMARY OF COMMITTEE RECOMMENDATIONS

Within this division, the Committee recommends \$2,700,000,000 which is in addition to funding included in S. 2064, the Military Construction, Veterans Affairs, and Related Agencies Appropriations Act, 2022.

MILITARY CONSTRUCTION, ARMY

The Committee recommends an additional \$653,400,000 for the Army for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress. Of this amount, \$60,000,000 is for planning and design as required to support the development of these projects.

MILITARY CONSTRUCTION, NAVY AND MARINE CORPS

The Committee recommends an additional \$1,201,539,000 for the Navy and Marine Corps for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress. Of this amount, \$113,000,000 is for planning and design as required to support the development of these projects as well as those that support the Shipyard Infrastructure Optimization Plan.

MILITARY CONSTRUCTION, AIR FORCE

The Committee recommends an additional \$316,324,000 for the Air Force for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress. Of this amount, \$30,000,000 is for planning and design as required to support the development of these projects.

MILITARY CONSTRUCTION, DEFENSE-WIDE

The Committee recommends an additional \$105,537,000 for projects considered within the Defense-Wide account for fiscal year 2022. This funding is provided to address high priority projects and planning and design requirements as identified on the fiscal year 2022 unfunded requirements lists for the Energy Resilience and Conservation Investment Program, Indo-Pacific Command, and Special Operations Command transmitted to Congress.

MILITARY CONSTRUCTION, ARMY NATIONAL GUARD

The Committee recommends an additional \$50,800,000 for the Army National Guard for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress. Of this amount, \$5,000,000 is for planning and design as required to support the development of these projects.

MILITARY CONSTRUCTION, AIR NATIONAL GUARD

The Committee recommends an additional \$66,500,000 for the Air National Guard for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress. Of this amount, \$15,000,000 is for planning and design as required to support the development of these projects.

MILITARY CONSTRUCTION, ARMY RESERVE

The Committee recommends an additional \$34,200,000 for the Army Reserve for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress. Of this amount, \$5,000,000 is for planning and design as required to support the development of these projects.

MILITARY CONSTRUCTION, AIR FORCE RESERVE

The Committee recommends an additional \$57,700,000 for the Air Force Reserve for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress. Of this amount, \$5,000,000 is for planning and design as required to support the development of these projects.

FAMILY HOUSING CONSTRUCTION, ARMY

The Committee recommends an additional \$29,000,000 for the Army for fiscal year 2022. This funding is provided to address high priority projects as identified on the fiscal year 2022 unfunded requirements list transmitted to Congress.

ADMINISTRATIVE PROVISIONS

SEC. 101. The Committee includes a provision providing additional funding for Military Installation Resilience.

SEC. 102. The Committee includes a provision providing additional funding for science and technology and testing and evaluation laboratory infrastructure.

SEC. 103. The Committee includes a provision providing additional funding to the Air Force to complete prior appropriated military construction projects.

TITLE II

DEPARTMENT OF VETERANS AFFAIRS

Within this division, the Committee maintains its recommendation of \$98,334,260,000 for the Veterans Health Administration outlined in S. 2064, the Military Construction, Veterans Affairs, and Related Agencies Appropriations Act, 2022, and the accompanying Senate Report 117–35. Within this total, \$7,602,342,000 is specified to meet the terms and purposes of sections 4004(b)(7) and 4005(g) of S. Con. Res. 14 (117th Congress).

COMPLIANCE WITH PARAGRAPH 7, RULE XVI OF THE
STANDING RULES OF THE SENATE

Paragraph 7 of rule XVI requires that Committee reports accompanying general appropriations bills identify each recommended amendment which proposes an item of appropriation which is not made to carry out the provisions of an existing law, a treaty stipulation, or an act or resolution previously passed by the Senate during that session.

The Committee is filing an original bill, which is not covered under this rule, but reports this information in the spirit of full disclosure.

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.

DISCLOSURE OF CONGRESSIONALLY DIRECTED SPENDING
ITEMS

Pursuant to Rule XLIV of the Standing Rules of the Senate, neither the bill (including Divisions A, B, and C) nor this explanatory statement contain any congressionally directed spending, limited tax benefits or limited tariff benefits.

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022					
TITLE I					
MILITARY PERSONNEL					
Military Personnel, Army	44,861,853	47,973,824	47,849,194	+ 2,987,341	- 124,630
Military Personnel, Navy	33,764,579	35,496,879	35,559,079	+ 1,794,500	+ 62,200
Military Personnel, Marine Corps	14,557,436	14,748,337	14,593,112	+ 35,676	- 155,225
Military Personnel, Air Force	32,784,171	35,047,901	35,132,419	+ 2,348,248	+ 84,518
Reserve Personnel, Army	5,037,119	5,229,805	5,077,037	+ 39,918	- 152,768
Reserve Personnel, Navy	2,200,600	2,316,934	2,299,539	+ 98,939	- 17,395
Reserve Personnel, Marine Corps	843,564	881,909	810,869	- 32,685	- 71,040
Reserve Personnel, Air Force	2,193,493	2,386,013	2,296,985	+ 103,492	- 89,028
National Guard Personnel, Army	8,663,999	9,051,344	9,035,677	+ 371,678	- 15,667
National Guard Personnel, Air Force	4,530,091	4,814,974	4,747,296	+ 217,205	- 67,678
Total, title I, Military Personnel	149,436,905	157,947,920	157,401,207	+ 7,964,302	- 546,713
Total, including Tricare	157,807,905	167,285,095	166,738,382	+ 8,930,477	- 546,713
TITLE II					
OPERATION AND MAINTENANCE					
Operation and Maintenance, Army	38,418,982	54,616,397	56,239,985	+ 17,821,003	+ 1,623,588
Operation and Maintenance, Navy	47,632,527	60,441,228	62,895,758	+ 15,263,231	+ 2,454,530
Operation and Maintenance, Marine Corps	7,286,184	9,024,791	9,313,631	+ 2,027,447	+ 288,840
Operation and Maintenance, Air Force	33,528,409	53,876,475	55,619,741	+ 22,091,332	+ 1,743,266
Operation and Maintenance, Space Force	2,492,114	3,440,712	3,556,350	+ 1,064,236	+ 115,638
Operation and Maintenance, Defense-Wide	39,048,990	44,918,366	45,317,901	+ 6,268,911	+ 399,535
Afghanistan Security Forces Fund .....	.....	3,327,810	.....	.....	- 3,327,810
Counter-ISIS Train and Equip Fund (CTEF) .....	.....	522,000	492,000	+ 492,000	- 30,000

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022—Continued

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
Operation and Maintenance, Army Reserve	2,887,898	3,000,635	3,008,635	+ 120,737	+ 8,000
Operation and Maintenance, Navy Reserve	1,115,150	1,148,698	1,130,198	+ 15,048	- 18,500
Operation and Maintenance, Marine Corps Reserve	283,494	285,050	335,450	+ 51,956	+ 50,400
Operation and Maintenance, Air Force Reserve	3,268,461	3,352,106	3,317,106	+ 48,645	- 35,000
Operation and Maintenance, Army National Guard	7,350,837	7,647,209	7,705,193	+ 354,356	+ 57,984
Operation and Maintenance, Air National Guard	6,785,853	6,574,020	6,678,660	- 107,193	+ 104,640
United States Court of Appeals for the Armed Forces	15,211	15,589	15,589	+ 378	.....
Environmental Restoration, Army	264,285	200,806	299,606	+ 35,321	+ 98,800
Environmental Restoration, Navy	421,250	298,250	465,550	+ 44,300	+ 167,300
Environmental Restoration, Air Force	509,250	301,768	796,568	+ 287,318	+ 494,800
Environmental Restoration, Defense-Wide	19,952	8,783	8,783	- 11,169	.....
Overseas Humanitarian, Disaster, and Civic Aid	288,750	218,580	218,580	- 70,170	.....
Cooperative Threat Reduction Account	360,190	239,849	239,849	- 37,449	.....
Department of Defense Acquisition Workforce Development Account	88,181	94,679	56,679	- 120,341	.....
Total, title II, Operation and Maintenance	192,213,468	253,623,852	257,821,863	+ 65,608,395	+ 4,198,011
TITLE III					
PROCUREMENT					
Aircraft Procurement, Army	3,457,342	2,806,452	2,786,952	- 670,390	- 19,500
Missile Procurement, Army	3,220,541	3,556,251	3,487,796	+ 267,255	- 68,455
Procurement of Weapons and Tracked Combat Vehicles, Army	3,611,887	3,875,893	4,250,563	+ 638,676	+ 374,670
Procurement of Ammunition, Army	2,790,140	2,198,110	2,074,163	- 715,977	- 83,947
Other Procurement, Army	8,603,112	8,873,558	8,496,987	- 106,125	- 376,571
Aircraft Procurement, Navy	19,480,280	16,477,178	17,710,805	- 1,769,475	+ 1,233,627
Weapons Procurement, Navy	4,477,773	4,220,705	4,134,152	- 343,621	- 86,553
Procurement of Ammunition, Navy and Marine Corps	792,023	988,018	853,620	+ 61,597	- 134,398
Shipbuilding and Conversion, Navy	23,268,880	22,571,059	25,559,000	+ 2,290,120	+ 2,987,941
Other Procurement, Navy	10,512,209	10,875,912	11,349,471	+ 837,262	+ 473,559

Procurement, Marine Corps	2,648,375	3,043,091	3,496,614	+ 848,239	+ 453,523
Aircraft Procurement, Air Force	19,212,753	15,727,669	17,311,222	- 1,901,531	+ 1,583,553
Missile Procurement, Air Force	2,142,181	2,669,811	2,584,306	+ 442,125	- 85,505
Procurement of Ammunition, Air Force	550,844	795,168	667,227	+ 116,383	- 127,941
Other Procurement, Air Force	23,441,648	25,251,137	26,367,426	+ 2,925,778	+ 1,116,289
Procurement, Space Force	2,310,994	2,766,854	2,728,549	+ 417,555	- 38,305
Procurement, Defense-Wide	5,837,347	5,548,212	5,898,393	+ 61,046	+ 350,181
Defense Production Act Purchases	174,639	340,927	302,927	+ 128,288	- 38,000
National Guard and Reserve Equipment .....	.....	.....	1,450,000	+ 1,450,000	+ 1,450,000
Total, title III, Procurement	136,532,968	132,546,005	141,510,173	+ 4,977,205	+ 8,964,168
TITLE IV					
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Army	13,969,032	12,799,645	13,467,949	- 501,083	+ 668,304
Research, Development, Test and Evaluation, Navy	20,078,829	22,639,362	21,546,521	+ 1,467,692	- 1,092,841
Research, Development, Test and Evaluation, Air Force	36,357,443	39,184,328	40,098,662	+ 3,741,219	+ 914,334
Research, Development, Test and Evaluation, Space Force	10,540,069	11,266,387	11,642,581	+ 1,102,512	+ 376,194
Research, Development, Test and Evaluation, Defense-Wide	25,932,671	25,857,875	29,120,239	+ 3,187,568	+ 3,262,364
Operational Test and Evaluation, Defense	257,120	216,591	276,591	+ 19,471	+ 60,000
Total, title IV, Research, Development, Test and Evaluation	107,135,164	111,964,188	116,152,543	+ 9,017,379	+ 4,188,355
TITLE V					
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds	1,473,910	1,902,000	2,027,000	+ 553,090	+ 125,000
Total, title V, Revolving and Management Funds	1,473,910	1,902,000	2,027,000	+ 553,090	+ 125,000
TITLE VI					
OTHER DEPARTMENT OF DEFENSE PROGRAMS					
Defense Health Program:					
Operation and maintenance	30,747,659	34,182,719	33,598,152	+ 2,850,493	- 584,567
Procurement	544,369	779,008	758,708	+ 214,339	- 20,300
Research, development, test and evaluation	2,392,579	630,680	1,849,627	- 542,952	+ 1,218,947

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022—Continued

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
Total, Defense Health Program ¹	33,684,607	35,592,407	36,206,487	+ 2,521,880	+ 614,080
Chemical Agents and Munitions Destruction, Defense:					
Operation and maintenance	106,691	93,121	93,121	-13,570	.....
Procurement	616	.....	.....	-616	.....
Research, development, test and evaluation	942,493	1,001,231	1,001,231	+ 58,738	.....
Total, Chemical Agents ²	1,049,800	1,094,352	1,094,352	+ 44,552	.....
Drug Interdiction and Counter-Drug Activities, Defense ¹	914,429	821,908	939,149	+ 24,720	+ 117,241
Office of the Inspector General ¹	375,439	438,363	438,363	+ 62,924	.....
Total, title VI, Other Department of Defense Programs	36,024,275	37,947,030	38,678,351	+ 2,654,076	+ 731,321
TITLE VII					
RELATED AGENCIES					
Central Intelligence Agency Retirement and Disability System Fund	514,000	514,000	514,000	.....	.....
Intelligence Community Management Account (ICMA)	633,719	634,000	610,370	-23,349	-23,630
Total, title VII, Related agencies	1,147,719	1,148,000	1,124,370	-23,349	-23,630
TITLE VIII					
GENERAL PROVISIONS					
Additional transfer authority (Sec. 8005)	(4,000,000)	(8,000,000)	(6,000,000)	(+ 2,000,000)	(- 2,000,000)
National Defense Stockpile Transaction Fund (Sec. 8034) .....	.....	.....	500,000	+ 500,000	+ 500,000
Rescissions (Sec. 8047)	- 3,248,047	.....	- 3,513,360	- 265,313	- 3,513,360
National grants (Sec. 8052)	49,000	.....	22,500	- 26,500	+ 22,500

O&M, Defense-wide transfer authority (Sec. 8055)	(30,000)	(30,000)	(30,000)	500,000	+ 500,000	+ 500,000
Improving Tactical Artificial Intelligence at the Combatant Commands (Sec. 8068)	(11,000)	(11,000)	(11,000)	500,000		
Fisher House O&M Army Navy Air Force transfer authority (Sec. 8069)	(1,000)			(1,000)		(+ 1,000)
John C Stennis Center for Public Service Development (Sec. 8070)				100,000	+ 100,000	+ 100,000
Artificial Intelligence Workforce (Sec. 8077)				300,000	+ 2,000,362	+ 300,000
Revised Fuel Costs (Sec. 8088)	(137,000)	(137,000)				
Defense Health O&M transfer authority (Sec. 8091)				2,813,178	+ 2,813,178	+ 2,813,178
Revised Economic Assumptions (Sec. 8095)				1,000,000	+ 1,000,000	+ 1,000,000
Iron Dome (Sec. 8122)						
Indian Financing Act incentives	25,000				- 25,000	
Fisher House Foundation	10,000				- 10,000	
Public Schools on Military Installations	284,000				- 284,000	
Foreign Currency Fluctuations	- 375,000				+ 375,000	
Defense Industrial Base and Supply Chain Resiliency	100,000				- 100,000	
Readiness	300,500				- 300,500	
Total, title VIII, General Provisions	- 4,554,909		1,722,318		+ 6,277,227	+ 1,722,318
TITLE IX						
OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON TERRORISM (GWOT)						
Military Personnel						
Military Personnel, Army (GWOT)	2,748,033				- 2,748,033	
Military Personnel, Navy (GWOT)	382,286				- 382,286	
Military Personnel, Marine Corps (GWOT)	129,943				- 129,943	
Military Personnel, Air Force (GWOT)	1,077,168				- 1,077,168	
Reserve Personnel, Army (GWOT)	33,414				- 33,414	
Reserve Personnel, Navy (GWOT)	11,771				- 11,771	
Reserve Personnel, Marine Corps (GWOT)	2,048				- 2,048	
Reserve Personnel, Air Force (GWOT)	16,816				- 16,816	
National Guard Personnel, Army (GWOT)	195,314				- 195,314	
National Guard Personnel, Air Force (GWOT)	5,800				- 5,800	
Total, Military Personnel	4,602,593				- 4,602,593	
Operation and Maintenance						
Operation & Maintenance, Army (GWOT)	17,497,254				- 17,497,254	
Operation & Maintenance, Navy (GWOT)	11,568,363				- 11,568,363	

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022—Continued

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
Operation & Maintenance, Marine Corps (GWOT)	1,108,667	.....	.....	-1,108,667	.....
Operation & Maintenance, Air Force (GWOT)	18,432,020	.....	.....	-18,432,020	.....
Operation & Maintenance, Space Force (GWOT)	77,115	.....	.....	-77,115	.....
Operation & Maintenance, Defense-Wide (GWOT)	6,041,898	.....	.....	-6,041,898	.....
Operation & Maintenance, Army Reserve (GWOT)	33,399	.....	.....	-33,399	.....
Operation & Maintenance, Navy Reserve (GWOT)	21,492	.....	.....	-21,492	.....
Operation & Maintenance, Marine Corps Reserve (GWOT)	8,707	.....	.....	-8,707	.....
Operation & Maintenance, Air Force Reserve (GWOT)	30,090	.....	.....	-30,090	.....
Operation & Maintenance, Army National Guard (GWOT)	79,792	.....	.....	-79,792	.....
Operation & Maintenance, Air National Guard (GWOT)	175,642	.....	.....	-175,642	.....
Subtotal	55,074,439	.....	.....	-55,074,439	.....
Afghanistan Security Forces Fund (GWOT)	3,047,612	.....	.....	-3,047,612	.....
Counter-ISIS Train and Equip Fund (GWOT)	710,000	.....	.....	-710,000	.....
Total, Operation and Maintenance	58,832,051	.....	.....	-58,832,051	.....
Procurement					
Aircraft Procurement, Army (GWOT)	595,112	.....	.....	-595,112	.....
Missile Procurement, Army (GWOT)	796,599	.....	.....	-796,599	.....
Procurement of Weapons and Tracked Combat Vehicles, Army (GWOT)	15,225	.....	.....	-15,225	.....
Procurement of Ammunition, Army (GWOT)	103,875	.....	.....	-103,875	.....
Other Procurement, Army (GWOT)	924,823	.....	.....	-924,823	.....
Aircraft Procurement, Navy (GWOT)	32,905	.....	.....	-32,905	.....
Weapons Procurement, Navy (GWOT)	5,572	.....	.....	-5,572	.....
Procurement of Ammunition, Navy and Marine Corps (GWOT)	77,424	.....	.....	-77,424	.....
Other Procurement, Navy (GWOT)	341,612	.....	.....	-341,612	.....
Procurement, Marine Corps (GWOT)	47,963	.....	.....	-47,963	.....
Aircraft Procurement, Air Force (GWOT)	772,738	.....	.....	-772,738	.....
Missile Procurement, Air Force (GWOT)	223,772	.....	.....	-223,772	.....

Procurement of Ammunition, Air Force (GWOT)	785,617				785,617
Other Procurement, Air Force (GWOT)	355,339				355,339
Procurement, Defense-Wide (GWOT)	342,137				342,137
National Guard and Reserve Equipment (GWOT)	950,000				950,000
Total, Procurement	6,370,713				6,370,713
Research, Development, Test and Evaluation					
Research, Development, Test and Evaluation, Army (GWOT)	175,824				175,824
Research, Development, Test and Evaluation, Navy (GWOT)	59,562				59,562
Research, Development, Test and Evaluation, Air Force (GWOT)	5,304				5,304
Research, Development, Test and Evaluation, Defense-Wide (GWOT)	80,818				80,818
Total, Research, Development, Test and Evaluation	321,508				321,508
Revolving and Management Funds					
Defense Working Capital Funds (GWOT)	20,090				20,090
Other Department of Defense Programs					
Defense Health Program:					
Operation & Maintenance (GWOT)	365,098				365,098
Office of the Inspector General (GWOT)	24,069				24,069
Total, Other Department of Defense Programs	389,167				389,167
GENERAL PROVISIONS—THIS TITLE					
Additional transfer authority (GWOT)	(2,000,000)				(2,000,000)
Rescissions (GWOT)	1,886,122				1,886,122
Total, General Provisions	1,886,122				1,886,122
Total, title IX (OCO/GWOT)	68,650,000				68,650,000

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022—Continued

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
OTHER APPROPRIATIONS					
EMERGENCY SECURITY SUPPLEMENTAL APPROPRIATIONS ACT, 2021 (PUBLIC LAW 117-31)					
Military Personnel					
National Guard Personnel, Army (emergency)	231,000	.....	.....	-231,000	.....
National Guard Personnel, Air Force (emergency)	28,900	.....	.....	-28,900	.....
Operation and Maintenance					
Operation and Maintenance, Army National Guard (emergency)	218,500	.....	.....	-218,500	.....
Operation and Maintenance, Air National Guard (emergency)	42,500	.....	.....	-42,500	.....
Overseas Humanitarian, Disaster, and Civic Aid (emergency)	500,000	.....	.....	-500,000	.....
Total, EMERGENCY SECURITY SUPPLEMENTAL APPROPRIATIONS ACT, 2021 (PUBLIC LAW 117-31)	1,020,900	.....	.....	-1,020,900	.....
EXTENDING GOVERNMENT FUNDING AND DELIVERING EMERGENCY ASSISTANT ACT, 2021 (PUBLIC LAW 117-43)					
DIVISION B—DISASTER RELIEF SUPPLEMENTAL APPROPRIATIONS ACT, 2022					
TITLE III					
DEPARTMENT OF DEFENSE					
Operation and Maintenance					
Operation and Maintenance, Navy (emergency) .....	.....	.....	565,000	+565,000	+565,000
Operation and Maintenance, Air Force (emergency) .....	.....	.....	330,000	+330,000	+330,000
Total, title III .....	.....	.....	895,000	+895,000	+895,000

DIVISION C—AFGHANISTAN SUPPLEMENTAL APPROPRIATIONS ACT, 2022							
TITLE II							
DEPARTMENT OF DEFENSE							
Operation and Maintenance							
Overseas Humanitarian, Disaster, and Civic Aid (emergency)							
General Provisions—This Title							
Total, title II			2,200,000				+ 2,200,000
Total, EXTENDING GOVERNMENT FUNDING AND DELIVERING EMERGENCY ASSISTANCE ACT, 2021 (PUBLIC LAW 117-43)			3,095,000				+ 3,095,000
Total, Other Appropriations	1,020,900		3,095,000			+ 2,074,100	+ 3,095,000
Grand total	697,451,400	706,416,170	728,870,000			+ 31,418,600	+ 22,453,830
Appropriations	(631,028,547)	(706,416,170)	(729,288,360)			(+ 98,259,813)	(+ 22,872,190)
Emergency appropriations	(1,020,900)		(3,095,000)			(+ 2,074,100)	(+ 3,095,000)
Global War on Terrorism (GWOT)	(70,536,122)					(- 70,536,122)	
Rescissions	(- 3,248,047)					(- 265,313)	(- 3,513,360)
Rescissions (GWOT)	(- 1,886,122)					(+ 1,886,122)	
(Transfer Authority)	(4,179,000)	(8,178,000)	(6,179,000)			(+ 2,000,000)	(- 1,999,000)
(Transfer Authority) (GWOT)	(2,000,000)					(- 2,000,000)	

¹Included in Budget under Operation and Maintenance

²Included in Budget under Procurement

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
OTHER APPROPRIATIONS					
ENERGY AND WATER DEVELOPMENT AND RELATED AGENCIES—ADDITIONAL APPROPRIATIONS ACT, 2022					
TITLE I					
DEPARTMENT OF THE ARMY					
Formerly Utilized Sites Remedial Action Program			52,000	+ 52,000	+ 52,000
TITLE II					
DEPARTMENT OF ENERGY					
ATOMIC ENERGY DEFENSE ACTIVITIES					
NATIONAL NUCLEAR SECURITY ADMINISTRATION					
Weapons Activities			100,000	+ 100,000	+ 100,000
Defense Nuclear Nonproliferation			76,000	+ 76,000	+ 76,000
Naval Reactors			26,200	+ 26,200	+ 26,200
ENVIRONMENTAL AND OTHER DEFENSE ACTIVITIES					
Defense Environmental Cleanup			166,900	+ 166,900	+ 166,900
Other Defense Activities			3,900	+ 3,900	+ 3,900
TITLE III					
Defense Nuclear Facilities Safety Board			5,000	+ 5,000	+ 5,000
Total, ENERGY AND WATER DEVELOPMENT AND RELATED AGENCIES—ADDITIONAL APPROPRIATIONS ACT, 2022			430,000	+ 430,000	+ 430,000

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
OTHER APPROPRIATIONS					
MILITARY CONSTRUCTION AND VETERANS AFFAIRS—ADDITIONAL APPROPRIATIONS ACT, 2022					
TITLE I—DEPARTMENT OF DEFENSE					
Military Construction, Army	653,400	+ 653,400	+ 653,400
Military Construction, Navy and Marine Corps	1,201,539	+ 1,201,539	+ 1,201,539
Military Construction, Air Force	316,324	+ 316,324	+ 316,324
Military Construction, Defense-Wide	105,537	+ 105,537	+ 105,537
Total, Active Components	2,276,800	+ 2,276,800	+ 2,276,800
Military Construction, Army National Guard	50,800	+ 50,800	+ 50,800
Military Construction, Air National Guard	66,500	+ 66,500	+ 66,500
Military Construction, Army Reserve	34,200	+ 34,200	+ 34,200
Military Construction, Air Force Reserve	57,700	+ 57,700	+ 57,700
Total, Reserve Components	209,200	+ 209,200	+ 209,200
Total, Military Construction	2,486,000	+ 2,486,000	+ 2,486,000
Family Housing Construction, Army	29,000	+ 29,000	+ 29,000
Total, Family Housing	29,000	+ 29,000	+ 29,000
Administrative Provisions					
Planning/Design/Minor Construction to Improve Military Installation Resilience (Sec. 101):
Military Construction, Army (Sec. 101)	10,000	+ 10,000	+ 10,000
Military Construction, Navy and Marine Corps (Sec. 101)	25,000	+ 25,000	+ 25,000
Military Construction, Air Force (Sec. 101)	15,000	+ 15,000	+ 15,000

COMPARATIVE STATEMENT OF NEW BUDGET [OBLIGATIONAL] AUTHORITY FOR FISCAL YEAR 2021 AND BUDGET ESTIMATES AND AMOUNTS RECOMMENDED IN THE BILL FOR FISCAL YEAR 2022—Continued

Item	2021 appropriation	Budget estimate	Committee recommendation	Senate Committee recommendation compared with (+ or -)	
				2021 appropriation	Budget estimate
Planning/Design/Minor Construction to Improve Laboratory Facilities (Sec. 102):					
Military Construction, Army (Sec. 102)			20,000	+20,000	+20,000
Military Construction, Navy and Marine Corps (Sec. 102)			10,000	+10,000	+10,000
Military Construction, Air Force (Sec. 102)			20,000	+20,000	+20,000
Cost to Complete (Sec. 103):					
Military Construction, Air Force (Sec. 103)			85,000	+85,000	+85,000
Total, Administrative Provisions			185,000	+185,000	+185,000
Total, title I, Department of Defense			2,700,000	+2,700,000	+2,700,000
TITLE II—DEPARTMENT OF VETERANS AFFAIRS					
Administrative Provisions					
Veterans Health Administration Replacement Language (Sec. 201):					
Medical services (MS):					
Budget year appropriations [Medical Care Allocation Adjustment]			2,341,736	+2,341,736	+2,341,736
Medical community care (MCC):					
Budget year appropriations					
Budget year appropriations [Medical Care Allocation Adjustment]			-3,269,000	-3,269,000	-3,269,000
Medical support and compliance (MSC):			4,905,265	+4,905,265	+4,905,265
Medical facilities (MF):					
Budget year appropriations [Medical Care Allocation Adjustment]			203,926	+203,926	+203,926
Budget year appropriations [Medical Care Allocation Adjustment]					
Rescissions (Sec. 202):			151,415	+151,415	+151,415
Medical Services (rescission) (Sec. 202)			-2,341,736	-2,341,736	-2,341,736
Medical Community Care (rescission) (Sec. 202)			-1,636,265	-1,636,265	-1,636,265
Medical Support and Compliance (rescission) (Sec. 202)			-203,926	-203,926	-203,926
Medical Facilities (rescission) (Sec. 202)			-151,415	-151,415	-151,415

Total, title II, Budget year appropriations [Medical Care Allocation Adjustment]	.....	7,602,342	+ 7,602,342	+ 7,602,342
Total, title II, Budget year appropriations	.....	- 3,269,000	- 3,269,000	- 3,269,000
Total, title II, Rescissions	.....	- 4,333,342	- 4,333,342	- 4,333,342
Total, title II, Department of Veterans Affairs	.....	.....	.....	.....
Total, Other Appropriations	.....	2,700,000	+ 2,700,000	+ 2,700,000