

XEROX

DIVISION C - DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

The following is an explanation of the effects of this Act, which makes appropriations for the Department of Defense for fiscal year 2021. The joint explanatory statement accompanying this division is approved and indicates congressional intent. Unless otherwise noted, the language set forth in House Report 116-453 carries the same weight as language included in this joint explanatory statement and should be complied with unless specifically addressed to the contrary in this joint explanatory statement. While some language is repeated for emphasis, it is not intended to negate the language referred to above unless expressly provided herein.

DEFINITION OF PROGRAM, PROJECT, AND ACTIVITY

For the purposes of the Balanced Budget and Emergency Deficit Control Act of 1985 (Public Law 99-177), as amended by the Balanced Budget and Emergency Deficit Control Reaffirmation Act of 1987 (Public Law 100-119), and by the Budget Enforcement Act of 1990 (Public Law 101-508), the terms “program, project, and activity” for appropriations contained in this Act shall be defined as the most specific level of budget items identified in the Department of Defense Appropriations Act, 2021, the related classified annexes and explanatory statements, and the P-1 and R-1 budget justification documents as subsequently modified by congressional action.

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

At the time the President submits the budget request for fiscal year 2022, the Secretary of Defense is directed to transmit to the congressional defense committees budget justification documents to be known as the "M-1" and the "O-1" which shall identify, at the budget activity, activity group, and sub-activity group level, the amounts requested by the President to be appropriated to the Department of Defense for military personnel and operation and maintenance in any budget request, or amended budget request, for fiscal year 2022.

REPROGRAMMING GUIDANCE FOR BASE AND OVERSEAS CONTINGENCY
OPERATIONS FUNDING

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

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

FUNDING INCREASES

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

CONGRESSIONAL SPECIAL INTEREST ITEMS

Items for which additional funds have been provided or items for which funding is specifically reduced as shown in the project level tables or in paragraphs using the phrase “only for” or “only to” 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 explanatory statement.

CLASSIFIED ANNEX

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

GENERAL TRANSFER AUTHORITY AND SPECIAL TRANSFER AUTHORITY

The Congress, in exercising its constitutional responsibility to oversee the executive branch, must improve its understanding of the Department of Defense's application of transfer authority and reprogramming actions as the Department executes the budget authority granted by the Congress. The Secretary of Defense is directed to submit a report to the House and Senate Appropriations Committees not later than 90 days after the enactment of this Act which shall include the following:

- 1) The levels of General Transfer Authority (GTA)—granted in title VIII in annual defense appropriations acts—and Special Transfer Authority (STA)—granted in title IX in annual defense appropriations acts—provided to the Department of Defense by fiscal year for the last ten fiscal years. In addition to the overall levels of authorized GTA and STA, the report shall include the portion of authorized GTA and STA that was utilized by the Department by fiscal year, and specify the percentage of the total GTA and STA that was used for below threshold reprogramming actions;
- 2) The portion of GTA and STA, by fiscal year for the last ten fiscal years, appropriated to the Department of Defense, transferred to, and subsequently implemented by a Department or agency other than one funded in this Act;
- 3) The level of GTA and STA, by fiscal year for the last ten fiscal years, used for actions submitted to address urgent mission critical requirements, unforeseen circumstances of an urgent nature (such as the unanticipated mobilization and movement of military personnel to a conflict zone, or investments included in joint urgent operational needs statements), or for life safety; and
- 4) The portion of GTA and STA, by fiscal year for the last ten fiscal years, used to address non-urgent contract awards, to fund initiatives or investments included in

operational needs statements, to accelerate existing acquisition programs, to procure quantities of equipment and/or services originally planned for purchase in the future years defense program as presented in the respective budget year, and/or to augment previously planned research and development efforts.

Further, the Comptroller General is directed, not than later 30 days after the submission of the above-mentioned report to the House and Senate Appropriations Committees, to provide to these Committees a review of this report, to include an assessment of the extent to which the actions described in response to the direction above comply with existing appropriations law.

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 with submission of the fiscal year 2021 President's budget request their unfunded mission requirements. As in previous years, these requests were assessed on the basis of cost, schedule, and performance. Therefore, this agreement recommends additional appropriations to address these shortfalls, as appropriate.

It is noted that, in some instances, appropriations provided in prior fiscal years to address unfunded requirements remained unobligated for several years after they were appropriated. Subsequently, those unobligated appropriations were proposed for realignment for purposes other than those requested by the Department of Defense and intended by the Congress. While it is understandable that requirements evolve and associated funding requirements change during execution of the budget, such unexecuted and/or reallocated appropriations suggest that additional details regarding the execution of appropriations provided specifically for unfunded requirements identified by the

Department of Defense are warranted. Therefore, it is directed that any submission of unfunded requirements with the fiscal year 2022 President's budget request be accompanied by updated execution data that speaks to the extent to which the unfunded requirements that received appropriations in fiscal year 2021 were fulfilled or partially fulfilled. Further, the Assistant Secretaries (Financial Management and Comptroller) for the Air Force, Navy, and Army are directed to provide, not later than 30 days after the enactment of this Act, updated budget request brief templates to the congressional defense committees that include distinct programmatic and execution data for appropriations provided in the previous three fiscal years for unfunded requirements.

INDEPENDENT COST ESTIMATES AND OTHER PROGRAM INFORMATION

In accordance with 10 U.S.C. 2334(a), the Director, Cost Assessment and Program Evaluation (CAPE), is directed to conduct or approve Independent Cost Estimates (ICEs) in advance of certain milestones for all major defense acquisition programs and major subprograms. In addition, Department of Defense Instruction 5000.73 outlines the responsibilities of the Director, CAPE in providing estimates and expresses the policy of the Department for its use. It is noted that Instruction 5000.73 defines an ICE as "a full life-cycle cost estimate of a program and includes: All costs of development, procurement, military construction, operations and support, disposal, and trained manpower to operate, maintain, and support the program or subprogram upon full operational deployment, without regard to funding source or management control."

The congressional defense committees view ICEs as a critical source of information about programs consuming billions of taxpayer dollars. For the purpose of recommending appropriations, the committees routinely review ICEs along with program requirements information and cost, schedule and performance data, to include acquisition

decision memoranda and test and evaluation master plans. Timely and complete submission of all documents to the congressional defense committees is necessary to conduct oversight and should be done as a routine matter. The Deputy Secretary of Defense is directed to provide ICEs to the congressional defense committees for all major defense acquisition programs and major subprograms included in the President's budget request and accompanying future years defense program, as well as those directed by the congressional defense committees.

CONGRESSIONAL LIAISON OFFICES

Department of Defense Appropriations Acts have long maintained restrictions on the use of funds to consolidate the budget or appropriations liaison office of the Office of the Secretary of Defense, the Office of the Secretary of a military department, or the service headquarters of one of the Armed Forces into a legislative affairs or legislative liaison office. The House and Senate Appropriations Committees continue to support the dedication of liaisons to the specialized work of the Committees and want to ensure that these offices have the staff and resources they need to be effective. Therefore, not later than 90 days after the enactment of this Act, the Secretary of Defense is directed to submit proposals and recommendations to the House and Senate Appropriations Committees to strengthen the budget and appropriations liaison offices to improve coordination within the Department of Defense and the House and Senate Appropriations Committees for the vital work performed by each institution. These proposals and recommendations should include an examination of rank and promotion parity, civilian and military integration within each office, and other proposals deemed appropriate by each Service. Furthermore, the Secretary of Defense is directed to maintain and fill no

fewer than nine liaison positions in the Office of the Under Secretary of Defense (Comptroller), Budget and Appropriations Affairs during fiscal year 2021.

READINESS

The agreement recommends an additional \$300,500,000 in title VIII of this Act to be transferred to the operation and maintenance accounts and be divided proportionately among the Services and the National Guard and reserve components. This funding shall be used only to improve military readiness, including increased training, depot maintenance, and base operations support. None of the funding provided may be used for recruiting, marketing, or advertising programs. The funding provided is a congressional special interest item. The Secretary of Defense and the Service Secretaries are directed to submit a detailed spending plan by sub-activity group to the House and Senate Appropriations Committees not less than 30 days prior to the obligation of these funds. These transfers may be implemented 30 days after congressional notification unless an objection is received from either the House or Senate Appropriations Committees.

F-35 PRODUCTION

The fiscal year 2021 President's budget request includes 79 F-35 Joint Strike Fighters (JSF), 19 fewer than were provided in the Department of Defense Appropriations Act, 2020 (Public Law 116-93). The agreement notes that the Department of Defense continues to request fewer than 60 F-35A variants and the F-35B procurement profile was reduced to ten aircraft in the fiscal year 2021 President's budget request, five fewer than were planned in the fiscal year 2020 President's budget for fiscal year 2021. The agreement notes that the reduction in F-35Bs was partially offset by an

increase in the Marine Corps' request for F-35Cs as part of force structure decisions. As a result, the agreement recommends an additional \$1,129,000,000 to procure 12 additional F-35As in fiscal year 2021, as delineated in the Air Force's unfunded priorities list. In addition, the agreement recommends \$518,400,000 to procure five additional F-35Cs for the Navy and Marine Corps.

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

F-35 PARTS REIMBURSEMENT

The prime vendor for the Joint Strike Fighter and the Department of Defense are in negotiation regarding reimbursement to the Department for parts delivered that were considered inadequate for installation. The Program Executive Officer, F-35 Joint Program Office, in coordination with the Assistant Secretary of the Air Force (Acquisition, Technology and Logistics) and the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to include, in the President's budget

request for fiscal year 2022, budgetary information that reflects the sum of any credited funds and the budgetary lines in which the Service will apply those credits to reduce program costs.

F-35 ECONOMIC ORDER QUANTITY

The fiscal year 2021 President's budget request for F-35 includes \$492,063,000 for economic order quantity (EOQ) materials for 254 United States F-35 aircraft to be procured in fiscal years 2021 through 2023 (lots 15-17). This is the second and final tranche of EOQ requested by the Program Executive Officer, F-35 Joint Program Office (JPO) for lot 15-17 aircraft following \$543,730,000 requested by the JPO and appropriated by the Congress in fiscal year 2020 for that purpose. Typically, EOQ authorization and appropriations provide bulk purchasing authority of components under a multi-year procurement per 10 U.S.C. 2306(b). Requesting authority and funding for EOQ outside of a certified multi-year procurement is highly unusual. Nevertheless, in order to achieve program cost savings in excess of \$400,000,000, the JPO first requested and Congress authorized and appropriated EOQ absent a multi-year procurement for F-35 in fiscal year 2018 for aircraft purchased in fiscal years 2018 through 2020 (lots 12-14). However, the savings estimated by the JPO in support of that EOQ did not materialize to the extent projected. Further, despite receiving EOQ as requested in fiscal year 2020 for 270 United States aircraft to be procured in lots 15-17, the fiscal year 2021 budget submission reduced the quantity of United States aircraft to be procured in lots 15-17, calling into question the value of purchasing bulk material using EOQ authority and appropriations, and the ability to generate the savings previously estimated.

The lack of savings materialized and continued adjustments to F-35 aircraft quantities year-over-year call into question whether appropriations for EOQ should

continue to be provided to the F-35 program. However, changes to funding, contracting, and acquisition strategies mid-stream could have detrimental effects on program costs and the supplier base. Therefore, the agreement provides full funding for the EOQ requested in fiscal year 2021 for lots 15-17 as this is the final EOQ request for these aircraft. The Director, Cost Assessment and Program Evaluation, is directed to submit to the congressional defense committees, with the submission of the fiscal year 2022 President's budget request, an estimate of cost savings materialized for lot 15-17 aircraft directly resulting from EOQ appropriated in fiscal years 2020 and 2021. Finally, the agreement contains a rescission of \$28,167,000 for fiscal year 2020 EOQ for lot 15-17 aircraft the JPO no longer plans to procure.

BUDGETING FOR F-35 MODERNIZATION

The fiscal year 2021 President's budget request includes \$14,186,886,000 for development, production, and sustainment of the F-35, including \$1,578,760,000 for follow-on modernization of the F-35A, F-35B, and F-35C aircraft to provide 513 additional individual capabilities. It is noted that the Department of Defense has budgeted \$5,731,731,000 from fiscal year 2021 through fiscal year 2025 for these follow-on modernization efforts, and that the total estimate for the follow-on modernization program is \$17,900,000,000. Follow-on modernization of the F-35 continues to be supported by the congressional defense committees, and despite some concerns with the ability to measure delivered software updates against planned capabilities as well as the delayed synchronization of fielded aircraft capabilities and the ability to maintain associated training cycles, the Department's adopted acquisition strategy of Continuous Capability Development and Delivery (C2D2) for follow-on modernization is not objected to at this time. However, there are concerns with the Department's approach to

budgeting for C2D2 and the lack of detail in the budget justification materials. For instance, the “R-2A Project Justification” and “R-3 Project Cost Analysis” for Air Force, Navy, and Marine Corps C2D2 budget exhibits do not trace to funds requested in the respective program elements for projects in that fiscal year, nor to the project level execution data provided during the congressional budget review process. Further, there are concerns with project level funding adjustments in the year of budget execution, as well as with repeated adjustments to the budget request for follow-on modernization after the submission of the budget request.

In order to ensure visibility into follow-on modernization cost and performance, and traceability of appropriated and requested funding to fielded capabilities, the project structure for F-35 C2D2 needs to be revised. Upon consultation with the Program Executive Officer, F-35 Joint Program Office, this revision is detailed in the project level tables accompanying the Research, Development, Test and Evaluation, Navy and Research, Development, Test and Evaluation, Air Force appropriation accounts in this explanatory statement. The Program Executive Officer, F-35 Joint Program Office, is directed to follow this revised project structure for C2D2 in future budget submissions, to include all justification materials, budget briefs, and execution updates. Further, while visibility into international contributions to the C2D2 program is appreciated, the agreement recommends appropriations for United States requirements only. Therefore, the budget justification materials should only reflect the request for those appropriations.

NEW BUDGET EXHIBIT CAPTURING SAVINGS FROM PROPOSED FORCE STRUCTURE CHANGES

The Under Secretary of Defense (Comptroller) and the Assistant Secretary of the Air Force (Financial Management and Comptroller) are directed to collaborate with the House and Senate Appropriations Committees to create a budget exhibit that will display

the savings assumed in the budget request for aircraft retirements and divestitures to be submitted with each President's budget request. The display shall have a separate page for each aircraft type/model/series that shall include, but not be limited to, quantities of aircraft impacted, funding changes by appropriation and line item through the entire future years defense program, and a narrative explaining how the funding change for each line was derived. Discussions on this new budget exhibit are expected to begin not later than 45 days after the enactment of this Act. The exhibit shall be included in the justification materials submitted with the fiscal year 2023 President's budget request.

CLOUD COMPUTING SERVICES BUDGET EXHIBIT

The Chief Information Officer of the Department of Defense is directed to provide a separate narrative page to be included after the funding table for each military Service and defense agency in the budget exhibit titled "Department of Defense FY 2021 Cloud Profile and Budget Estimates". The narrative shall address the factors driving any funding changes between fiscal years by appropriation; a description of the strategies each military Service and defense agency will use to implement cloud computing, including a timeline; and how these strategies will be incorporated into the Department's overall enterprise cloud environment.

MISSILE DEFENSE AGENCY BUDGET REQUEST, PRIORITIES, AND UNFUNDED REQUIREMENTS

The fiscal year 2021 President's budget request for the Missile Defense Agency (MDA) totals \$9,133,668,000 (excluding appropriations for Military Construction), a decrease of \$1,273,122,000 from amounts enacted for fiscal year 2020. Separately, with submission of the fiscal year 2021 President's budget request, the Director, MDA,

submitted to the congressional defense committees a list of unfunded MDA requirements for fiscal year 2021 totaling \$969,222,000. The apparent disconnect among the 2017 National Security Strategy, the 2018 National Defense Strategy, the 2020 Missile Defense Review (which defines missile defense as “an essential component of United States national security and defense strategies”), and the fiscal year 2021 President’s budget request for MDA is concerning. In particular, ongoing acquisition programs that were identified as high priority within MDA’s architecture as recently as one year ago, such as the development of a space sensor for the tracking of hypersonic threats and ballistic missiles, the development of an interceptor against hypersonic weapons, and the procurement of a radar for the defense of Hawaii, have been removed from MDA’s budget, or underwent significant funding reductions. The inconsistencies are concerning, and greater programmatic and fiscal alignment consistent with the aforementioned documents among the Director, MDA; the Under Secretary of Defense (Research and Engineering); the Under Secretary of Defense (Acquisition and Sustainment); the Under Secretary of Defense (Comptroller); the Deputy Secretary of Defense; the Director, Cost Assessment and Program Evaluation; and the Director, Office of Management and Budget, is expected in future budget submissions. A total of \$10,464,614,000 is recommended for MDA activities for fiscal year 2021, an increase of \$1,330,946,000 above the request, and the Director, MDA is directed to provide the congressional defense committees, not later than 30 days after the enactment of this Act, updated acquisition and spend plans for MDA’s fiscal year 2021 appropriations.

MISSILE DEFENSE AGENCY WORKFORCE

The fiscal year 2021 President’s budget request proposes a reduction to the Missile Defense Agency’s (MDA) civilian workforce by 35 full-time equivalents (FTEs). It is

noted that over the last four years, MDA's civilian FTEs have been reduced by more than four percent and that the fiscal year 2021 future years defense program proposes to further reduce MDA's civilian FTEs by more than five percent from current levels – even as MDA's workload continues to grow during that timeframe. Further, the assessment directed in Senate Report 116-103 regarding MDA's required workforce size, qualifications, and makeup to address MDA requirements has not been submitted to the congressional defense committees. Therefore, the fiscal year 2021 proposal to further reduce MDA's civilian FTE is rejected, and an increase of \$15,000,000 in fiscal year 2021 to restore these MDA personnel reductions is recommended. Further, it is directed that no adjustments may be made to MDA's workforce size, structure, and organization until 30 days after the Deputy Secretary of Defense, acting directly through the Director, MDA, briefs the congressional defense committees on any such proposed adjustments.

HYPERSONIC AND BALLISTIC TRACKING SPACE SENSOR

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

The Space Development Agency (SDA) and MDA will share responsibility for developing and deploying the HBTSS architecture and constellation under a joint Memorandum of Agreement that defines each agency's roles and responsibilities, and SDA's development efforts are fully funded elsewhere within the Research, Development, Test and Evaluation, Defense-Wide appropriation. With the fiscal year

2021 budget request, the Director, MDA, in response to Senate Report 116-103, submitted to the congressional defense committees a limited acquisition strategy for HBTSS. Details regarding the overall space architecture to be developed and fielded by SDA and MDA and cost estimates were not included. Therefore, the Directors, SDA and MDA are directed to jointly provide to the congressional defense committees, with submission of the President's fiscal year 2022 budget request, the comprehensive acquisition strategy for HBTSS, including the components of the architecture, respective fielding plans, contract-type determinations and rationales therefor, plans for technical data management, integrated master test plans and integrated master schedules, as well as cost estimates by element and for the overall strategy. A total of \$130,000,000 is recommended for MDA's HBTSS sensor efforts in fiscal year 2021, to include a transfer of \$10,000,000 of funds for HBTSS requested within SDA's budget, and it is expected that this program will be fully funded in future budget submissions for both MDA and SDA.

BUDGETING FOR MISSILE DEFENSE AGENCY TEST EVENTS

The fiscal year 2021 President's budget request includes \$1,287,008,000 for Missile Defense Agency (MDA) test events and associated test infrastructure. Regular and realistic testing of the ballistic missile defense system to prove out missile defense capabilities, increase engagement capability and capacity, and build warfighter confidence is strongly supported. However, the repeated volatility of the MDA's annual test plans resulting in schedule adjustments, test delays, and the cancellation of previously planned and budgeted flight tests in the year of execution, is concerning. Funds for MDA's fiscal year 2021 budget request for test events are recommended per the supplemental test event budget briefing materials provided to the House and Senate

Appropriations Committees, as modified by the table of “Project Level Adjustments” in the explanatory statement accompanying this Act, and MDA’s test budget is designated as a congressional special interest item for the purpose of Base for Reprogramming.

HOMELAND DEFENSE RADAR – HAWAII

The President’s fiscal year 2021 budget request includes no funds to continue acquisition of a Homeland Defense Radar on Hawaii. A discrimination radar on Hawaii is an important part of the architecture for United States homeland defense, and 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, an additional \$133,000,000, only to be used for the Homeland Defense Radar – Hawaii, is recommended.

The site selection for the radar has been delayed due to locations previously under consideration no longer being considered viable, and one alternate location (“#4”) on the Pacific Missile Range Facility (PMRF) will be added to the environmental impact statement for full environmental analysis. The House and Senate Appropriations Committees look forward to receiving the results of that analysis in a timely manner. Further, the Director, MDA is directed to submit a report to the congressional defense committees, not later than 30 days after the enactment of this Act, regarding the viability of PMRF site #4 as an alternative site for Homeland Defense Radar – Hawaii, and this report shall detail the planning process between MDA and the Navy regarding validation of PMRF site #4 as an alternative site, to include steps taken to complete an assessment of a radar’s impact on PMRF training range operations and an estimated timeline for completion of the environmental review and issuance of a record of decision. In addition, the Secretary of the Navy and the Commander, United States Pacific Fleet, are directed to

jointly provide the congressional defense committees, not later than with the submission of the fiscal year 2022 President's budget request, an independent assessment regarding the impact of locating a Homeland Defense Radar – Hawaii at PMRF site #4 on Navy and Marine Corps operations, including any mitigations the Navy and Marine Corps would require and associated cost estimates.

AEGIS BASELINES BUDGET ESTIMATES

As previously expressed in Senate Report 116-103, concerns remain with the lack of stability of the scope and costs of AEGIS "baselines" and inadequate budget justification materials. The Missile Defense Agency Program Executive, Sea-Based Weapons Systems and the Department of the Navy Program Executive Officer, Integrated Warfare Systems are directed to provide to the congressional defense committees, not later than 30 days after the enactment of this Act, a joint acquisition baseline for AEGIS development efforts.

SUPPORT TO THE DEPARTMENT OF HEALTH AND HUMAN SERVICES FOR THE STRATEGIC NATIONAL STOCKPILE

The agreement recognizes the Department of the Army's capabilities in additive manufacturing that may enhance preparedness and be leveraged in the event of a public health emergency requiring activation of critically needed medical supplies from the Strategic National Stockpile. The Secretary of Defense is urged to work with the Secretary of Health and Human Services (HHS) to provide technical manufacturing expertise to the Strategic National Stockpile for the provision of components of medical supplies and devices to replenish depleted stocks, provide surge capacity, and maintain

the stockpile over time. Further, the agreement directs the Secretary of Defense to submit a report to the congressional defense committees, not later than 180 days after the enactment of this Act, detailing the Department's work with HHS to support the Strategic National Stockpile.

CHIMPANZEES ON AIR FORCE PROPERTY

The Secretary of the Air Force is encouraged to work with the Director of the National Institutes of Health to seek alternative arrangements for the housing and care of chimpanzees currently residing on Air Force property.

TITLE I - MILITARY PERSONNEL

The agreement provides \$157,807,905,000 in Title I, Military Personnel, as follows:

~~(INSERT MILPERS RECAP TABLE)~~ e insert 20A

SUMMARY OF MILITARY PERSONNEL END STRENGTH

	Fiscal year 2021				
	Fiscal year 2020 authorized	Budget Request	Final Bill	Change from request	Change from fiscal year 2020
Active Forces (End Strength):					
Army.....	480,000	485,900	485,900	---	5,900
Navy.....	340,500	347,800	347,800	---	7,300
Marine Corps.....	186,200	184,100	181,200	-2,900	-5,000
Air Force.....	332,800	333,700	333,700	---	900
Total, Active Forces.....	1,339,500	1,351,500	1,348,600	-2,900	9,100
Guard and Reserve Forces (End Strength):					
Army Reserve.....	189,500	189,800	189,800	---	300
Navy Reserve.....	59,000	58,800	58,800	---	-200
Marine Corps Reserve.....	38,500	38,500	38,500	---	---
Air Force Reserve.....	70,100	70,300	70,300	---	200
Army National Guard.....	336,000	336,500	336,500	---	500
Air National Guard.....	107,700	108,100	108,100	---	400
Total, Selected Reserve.....	800,800	802,000	802,000	---	1,200
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Total, Military Personnel.....	2,140,300	2,153,500	2,150,600	-2,900	10,300

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RECAPITULATION		
MILITARY PERSONNEL, ARMY.....	45,087,813	44,861,853
MILITARY PERSONNEL, NAVY.....	33,892,369	33,764,579
MILITARY PERSONNEL, MARINE CORPS.....	14,840,871	14,557,436
MILITARY PERSONNEL, AIR FORCE.....	32,901,670	32,784,171
RESERVE PERSONNEL, ARMY.....	5,106,956	5,037,119
RESERVE PERSONNEL, NAVY.....	2,240,710	2,200,600
RESERVE PERSONNEL, MARINE CORPS.....	868,694	843,564
RESERVE PERSONNEL, AIR FORCE.....	2,207,823	2,193,493
NATIONAL GUARD PERSONNEL, ARMY.....	8,830,111	8,663,999
NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,547,087	4,530,091
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GRAND TOTAL, TITLE I, MILITARY PERSONNEL.....	150,524,104	149,436,905
GRAND TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	8,371,000	8,371,000
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GRAND TOTAL, MILITARY PERSONNEL.....	158,895,104	157,807,905
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SUMMARY OF GUARD AND RESERVE FULL-TIME STRENGTH

	Fiscal year 2021			Change from request	Change from fiscal year 2020
	Fiscal year 2020 authorized	Budget Request	Final Bill		
Active Guard and Reserve:					
Army Reserve	16,511	16,511	16,511	---	---
Navy Reserve	10,155	10,215	10,215	---	60
Marine Corps Reserve	2,386	2,386	2,386	---	---
Air Force Reserve	4,431	5,256	5,256	---	825
Army National Guard	30,595	30,595	30,595	---	---
Air National Guard	22,637	25,333	25,333	---	2,696
Total, Full-Time Support.....	86,715	90,296	90,296	---	3,581

MILITARY PERSONNEL OVERVIEW

The agreement provides the resources required for 1,348,600 active forces and 802,000 selected reserve forces in order to meet operational needs for fiscal year 2021. The agreement also provides the funding necessary to support a 3 percent pay raise for all military personnel, effective January 1, 2021.

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

The Secretary of Defense is directed to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2021 appropriations 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 Defense Appropriations Subcommittees.

The Secretary of Defense is directed 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 the 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 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.

RESERVE COMPONENT BUDGET REPORTING

The Secretary of Defense is directed to provide a semi-annual detailed report to the congressional defense committees which shows transfers between sub-activities within the military personnel appropriation. Reports shall be submitted not later than 30 days after the end of the second quarter and not later than 30 days after the end of the fiscal year.

SUICIDE PREVENTION AND OUTREACH

The agreement adopts the reporting requirements contained under the heading “Suicide Prevention and Outreach” in House Report 116-453 but changes the reporting requirement frequency from monthly to semi-annually.

MILITARY PERSONNEL AND EXTREMIST IDEOLOGIES

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

MILITARY PERSONNEL, ARMY

The agreement provides \$44,861,853,000 for Military Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 24A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MILITARY PERSONNEL, ARMY		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY.....	7,718,303	7,718,303
RETIRED PAY ACCRUAL.....	2,686,055	2,686,055
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	97,203	97,203
BASIC ALLOWANCE FOR HOUSING.....	2,236,517	2,236,517
BASIC ALLOWANCE FOR SUBSISTENCE.....	294,761	294,761
INCENTIVE PAYS.....	92,859	92,859
SPECIAL PAYS.....	375,286	375,286
ALLOWANCES.....	183,299	183,299
SEPARATION PAY.....	67,499	67,499
SOCIAL SECURITY TAX.....	588,377	588,377
TOTAL, BUDGET ACTIVITY 1.....	14,340,159	14,340,159

ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY.....	14,202,907	14,202,907
RETIRED PAY ACCRUAL.....	4,949,153	4,949,153
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	123,092	123,092
BASIC ALLOWANCE FOR HOUSING.....	4,740,859	4,740,859
INCENTIVE PAYS.....	87,963	87,963
SPECIAL PAYS.....	883,084	883,084
ALLOWANCES.....	712,600	712,600
SEPARATION PAY.....	303,910	303,910
SOCIAL SECURITY TAX.....	1,086,522	1,086,522
TOTAL, BUDGET ACTIVITY 2.....	27,090,090	27,090,090

ACTIVITY 3: PAY AND ALLOWANCES OF CADETS		
ACADEMY CADETS.....	93,453	93,453
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE.....	1,283,616	1,283,616
SUBSISTENCE-IN-KIND.....	653,596	653,596
FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	12	12
TOTAL, BUDGET ACTIVITY 4.....	1,937,224	1,937,224

24A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	146,226	146,226
TRAINING TRAVEL.....	160,046	160,046
OPERATIONAL TRAVEL.....	440,920	440,920
ROTATIONAL TRAVEL.....	691,296	691,296
SEPARATION TRAVEL.....	238,612	238,612
TRAVEL OF ORGANIZED UNITS.....	1,747	1,747
NON-TEMPORARY STORAGE.....	8,592	8,592
TEMPORARY LODGING EXPENSE.....	38,508	38,508
	-----	-----
TOTAL, BUDGET ACTIVITY 5.....	1,725,947	1,725,947
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	253	253
INTEREST ON UNIFORMED SERVICES SAVINGS.....	79	79
DEATH GRATUITIES.....	41,400	41,400
UNEMPLOYMENT BENEFITS.....	27,904	27,904
EDUCATION BENEFITS.....	36	36
ADOPTION EXPENSES.....	603	603
TRANSPORTATION SUBSIDY.....	13,390	13,390
PARTIAL DISLOCATION ALLOWANCE.....	112	112
RESERVE OFFICERS TRAINING CORPS (ROTC).....	107,570	107,570
JUNIOR ROTC.....	30,409	30,409
	-----	-----
TOTAL, BUDGET ACTIVITY 6.....	221,756	221,756
LESS REIMBURSABLES.....	-320,816	-320,816
UNDISTRIBUTED ADJUSTMENT.....	---	-225,960
	=====	=====
TOTAL, TITLE I, MILITARY PERSONNEL, ARMY.....	45,087,813	44,861,853
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	2,351,000	2,351,000
TOTAL, MILITARY PERSONNEL, ARMY.....	47,438,813	47,212,853
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-225,960
Historical unobligated balances		-138,363
Revised budget estimate		-74,750
Rate adjustments		-12,847

(240)

MILITARY PERSONNEL, NAVY

The agreement provides \$33,764,579,000 for Military Personnel, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

insert 25A-C

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MILITARY PERSONNEL, NAVY		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY.....	4,717,199	4,717,199
RETIRED PAY ACCRUAL.....	1,643,356	1,643,356
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	76,465	76,465
BASIC ALLOWANCE FOR HOUSING.....	1,682,998	1,682,998
BASIC ALLOWANCE FOR SUBSISTENCE.....	176,042	176,042
INCENTIVE PAYS.....	167,340	167,340
SPECIAL PAYS.....	450,429	450,429
ALLOWANCES.....	104,074	104,074
SEPARATION PAY.....	39,298	39,298
SOCIAL SECURITY TAX.....	359,783	359,783
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	9,416,984	9,416,984
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY.....	10,756,652	10,756,652
RETIRED PAY ACCRUAL.....	3,751,728	3,751,728
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	129,326	129,326
BASIC ALLOWANCE FOR HOUSING.....	5,110,991	5,110,991
INCENTIVE PAYS.....	112,674	112,674
SPECIAL PAYS.....	1,072,415	1,072,415
ALLOWANCES.....	553,063	553,063
SEPARATION PAY.....	86,697	86,697
SOCIAL SECURITY TAX.....	822,884	822,884
	-----	-----
TOTAL, BUDGET ACTIVITY 2.....	22,396,430	22,396,430
ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN		
MIDSHIPMEN.....	87,021	87,021
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE.....	888,820	888,820
SUBSISTENCE-IN-KIND.....	438,551	438,551
FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	5	5
	-----	-----
TOTAL, BUDGET ACTIVITY 4.....	1,327,376	1,327,376

25A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	108,471	108,471
TRAINING TRAVEL.....	88,092	88,092
OPERATIONAL TRAVEL.....	274,131	274,131
ROTATIONAL TRAVEL.....	323,056	323,056
SEPARATION TRAVEL.....	130,324	130,324
TRAVEL OF ORGANIZED UNITS.....	28,668	28,668
NON-TEMPORARY STORAGE.....	15,647	15,647
TEMPORARY LODGING EXPENSE.....	20,926	20,926
	-----	-----
TOTAL, BUDGET ACTIVITY 5.....	989,315	989,315
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	43	43
INTEREST ON UNIFORMED SERVICES SAVINGS.....	1,277	1,277
DEATH GRATUITIES.....	24,800	24,800
UNEMPLOYMENT BENEFITS.....	16,202	16,202
EDUCATION BENEFITS.....	5,221	5,221
ADOPTION EXPENSES.....	194	194
TRANSPORTATION SUBSIDY.....	4,643	4,643
PARTIAL DISLOCATION ALLOWANCE.....	34	34
RESERVE OFFICERS TRAINING CORPS (ROTC).....	22,896	22,896
JUNIOR ROTC.....	15,533	15,533
	-----	-----
TOTAL, BUDGET ACTIVITY 6.....	90,843	90,843
LESS REIMBURSABLES.....	-415,600	-415,600
UNDISTRIBUTED ADJUSTMENT.....	---	-127,790
	=====	=====
TOTAL, TITLE I, MILITARY PERSONNEL, NAVY.....	33,892,369	33,764,579
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	1,673,000	1,673,000
TOTAL, MILITARY PERSONNEL, NAVY.....	35,565,369	35,437,579
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-127,790
Historical unobligated balances		-75,103
Revised budget estimate		-31,500
Rate adjustments		-29,267
Program increase only for USS FORT WORTH and USS CORONADO		8,080

MILITARY PERSONNEL, MARINE CORPS

The agreement provides \$14,557,436,000 for Military Personnel, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 26A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MILITARY PERSONNEL, MARINE CORPS		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY.....	1,777,306	1,777,306
RETIRED PAY ACCRUAL.....	619,614	619,614
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	37,597	37,597
BASIC ALLOWANCE FOR HOUSING.....	579,290	579,290
BASIC ALLOWANCE FOR SUBSISTENCE.....	68,427	68,427
INCENTIVE PAYS.....	52,065	52,065
SPECIAL PAYS.....	5,609	5,609
ALLOWANCES.....	38,083	38,083
SEPARATION PAY.....	21,991	21,991
SOCIAL SECURITY TAX.....	133,108	133,108
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	3,333,090	3,333,090
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY.....	5,479,139	5,479,139
RETIRED PAY ACCRUAL.....	1,908,158	1,908,158
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	147,368	147,368
BASIC ALLOWANCE FOR HOUSING.....	1,711,770	1,711,770
INCENTIVE PAYS.....	8,354	8,354
SPECIAL PAYS.....	200,417	200,417
ALLOWANCES.....	293,563	293,563
SEPARATION PAY.....	93,052	93,052
SOCIAL SECURITY TAX.....	418,564	418,564
	-----	-----
TOTAL, BUDGET ACTIVITY 2.....	10,260,385	10,260,385
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE.....	422,455	422,455
SUBSISTENCE-IN-KIND.....	383,725	383,725
FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	10	10
	-----	-----
TOTAL, BUDGET ACTIVITY 4.....	806,190	806,190
ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	50,440	50,440
TRAINING TRAVEL.....	14,824	14,824

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATIONAL TRAVEL.....	156,014	156,014
ROTATIONAL TRAVEL.....	119,306	119,306
SEPARATION TRAVEL.....	83,046	83,046
TRAVEL OF ORGANIZED UNITS.....	632	632
NON-TEMPORARY STORAGE.....	7,191	7,191
TEMPORARY LODGING EXPENSE.....	5,172	5,172
TOTAL, BUDGET ACTIVITY 5.....	436,625	436,625
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	278	278
INTEREST ON UNIFORMED SERVICES SAVINGS.....	19	19
DEATH GRATUITIES.....	13,500	13,500
UNEMPLOYMENT BENEFITS.....	8,324	8,324
EDUCATION BENEFITS.....	142	142
ADOPTION EXPENSES.....	140	140
TRANSPORTATION SUBSIDY.....	1,568	1,568
PARTIAL DISLOCATION ALLOWANCE.....	22	22
SGLI EXTRA HAZARD PAYMENTS.....	2,134	2,134
JUNIOR ROTC.....	3,928	3,928
TOTAL, BUDGET ACTIVITY 6.....	30,055	30,055
LESS REIMBURSABLES.....	-25,474	-25,474
UNDISTRIBUTED ADJUSTMENT.....	---	-283,435
=====		
TOTAL, TITLE I, MILITARY PERSONNEL, MARINE CORPS....	14,840,871	14,557,436
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	905,000	905,000
TOTAL, MILITARY PERSONNEL, MARINE CORPS.....	15,745,871	15,462,436
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-283,435
Historical unobligated balances		-32,910
Revised budget estimate		-233,407
Rate adjustments		-17,118

MILITARY PERSONNEL, AIR FORCE

The agreement provides \$32,784,171,000 for Military Personnel, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 27A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MILITARY PERSONNEL, AIR FORCE		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY.....	5,641,144	5,641,144
RETIRED PAY ACCRUAL.....	1,956,196	1,956,196
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	87,627	87,627
BASIC ALLOWANCE FOR HOUSING.....	1,661,550	1,661,550
BASIC ALLOWANCE FOR SUBSISTENCE.....	208,359	208,359
INCENTIVE PAYS.....	379,467	379,467
SPECIAL PAYS.....	344,723	344,723
ALLOWANCES.....	122,425	122,425
SEPARATION PAY.....	37,166	37,166
SOCIAL SECURITY TAX.....	430,816	430,816
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	10,869,473	10,869,473
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY.....	10,225,543	10,225,543
RETIRED PAY ACCRUAL.....	3,557,876	3,557,876
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	99,527	99,527
BASIC ALLOWANCE FOR HOUSING.....	4,106,580	4,106,580
INCENTIVE PAYS.....	64,585	64,585
SPECIAL PAYS.....	374,755	374,755
ALLOWANCES.....	591,495	591,495
SEPARATION PAY.....	109,441	109,441
SOCIAL SECURITY TAX.....	782,254	782,254
	-----	-----
TOTAL, BUDGET ACTIVITY 2.....	19,912,056	19,912,056
ACTIVITY 3: PAY AND ALLOWANCES OF CADETS		
ACADEMY CADETS.....	85,426	85,426
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE.....	1,058,397	1,058,397
SUBSISTENCE-IN-KIND.....	150,966	150,966
	-----	-----
TOTAL, BUDGET ACTIVITY 4.....	1,209,363	1,209,363

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	91,776	91,776
TRAINING TRAVEL.....	59,686	59,686
OPERATIONAL TRAVEL.....	364,544	364,544
ROTATIONAL TRAVEL.....	467,081	467,081
SEPARATION TRAVEL.....	131,612	131,612
TRAVEL OF ORGANIZED UNITS.....	3,430	3,430
NON-TEMPORARY STORAGE.....	26,026	26,026
TEMPORARY LODGING EXPENSE.....	34,893	34,893
	-----	-----
TOTAL, BUDGET ACTIVITY 5.....	1,179,048	1,179,048
 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	18	18
INTEREST ON UNIFORMED SERVICES SAVINGS.....	2,333	2,333
DEATH GRATUITIES.....	14,900	14,900
UNEMPLOYMENT BENEFITS.....	5,515	5,515
EDUCATION BENEFITS.....	13	13
ADOPTION EXPENSES.....	416	416
TRANSPORTATION SUBSIDY.....	3,164	3,164
PARTIAL DISLOCATION ALLOWANCE.....	629	629
RESERVE OFFICERS TRAINING CORPS (ROTC).....	44,236	44,236
JUNIOR ROTC.....	18,451	18,451
	-----	-----
TOTAL, BUDGET ACTIVITY 6.....	89,675	89,675
LESS REIMBURSABLES.....	-443,371	-443,371
UNDISTRIBUTED ADJUSTMENT.....	---	-117,499
	=====	=====
TOTAL, TITLE I, MILITARY PERSONNEL, AIR FORCE.....	32,901,670	32,784,171
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	1,623,000	1,623,000
TOTAL, MILITARY PERSONNEL, AIR FORCE.....	34,524,670	34,407,171
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-117,499
Historical unobligated balances		-31,770
Revised budget estimate		-57,750
Rate adjustments		-27,979

RESERVE PERSONNEL, ARMY

The agreement provides \$5,037,119,000 for Reserve Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 18A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RESERVE PERSONNEL, ARMY		
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	1,619,895	1,619,895
PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	59,136	59,136
PAY GROUP F TRAINING (RECRUITS).....	194,730	194,730
PAY GROUP P TRAINING (PIPELINE RECRUITS).....	4,357	4,357
MOBILIZATION TRAINING.....	2,555	2,555
SCHOOL TRAINING.....	233,785	233,785
SPECIAL TRAINING.....	373,900	373,900
ADMINISTRATION AND SUPPORT.....	2,475,281	2,475,281
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	17,354	17,354
EDUCATION BENEFITS.....	22,263	22,263
HEALTH PROFESSION SCHOLARSHIP.....	64,468	64,468
OTHER PROGRAMS.....	39,232	39,232
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	5,106,956	5,106,956
UNDISTRIBUTED ADJUSTMENT.....	---	-69,837
	=====	=====
TOTAL, TITLE I, RESERVE PERSONNEL, ARMY.....	5,106,956	5,037,119
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375).....	418,000	418,000
TOTAL, RESERVE PERSONNEL, ARMY.....	5,524,956	5,455,119
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-69,837
Historical unobligated balances		-30,832
Revised budget estimate		-37,600
Rate adjustments		-1,405

RESERVE PERSONNEL, NAVY

The agreement provides \$2,200,600,000 for Reserve Personnel, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 29A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RESERVE PERSONNEL, NAVY		
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	757,736	757,736
PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	8,602	8,602
PAY GROUP F TRAINING (RECRUITS).....	51,337	51,337
MOBILIZATION TRAINING.....	13,019	13,019
SCHOOL TRAINING.....	62,049	62,049
SPECIAL TRAINING.....	135,042	135,042
ADMINISTRATION AND SUPPORT.....	1,145,197	1,145,197
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	8,974	8,974
EDUCATION BENEFITS.....	679	679
HEALTH PROFESSION SCHOLARSHIP.....	58,075	58,075
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	2,240,710	2,240,710
UNDISTRIBUTED ADJUSTMENT.....	---	-40,110
	=====	=====
TOTAL, TITLE I, RESERVE PERSONNEL, NAVY.....	2,240,710	2,200,600
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	146,000	146,000
TOTAL, RESERVE PERSONNEL, NAVY.....	2,386,710	2,346,600
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-40,110
Historical unobligated balances		-7,172
Revised budget estimate		-31,000
Rate adjustments		-1,938

RESERVE PERSONNEL, MARINE CORPS

The agreement provides \$843,564,000 for Reserve Personnel, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 30A - B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RESERVE PERSONNEL, MARINE CORPS		
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	299,914	299,914
PAY GROUP B TRAINING (BACKFILL FOR ACT DUTY).....	46,242	46,242
PAY GROUP F TRAINING (RECRUITS).....	136,283	136,283
MOBILIZATION TRAINING.....	1,706	1,706
SCHOOL TRAINING.....	25,154	25,154
SPECIAL TRAINING.....	56,584	56,584
ADMINISTRATION AND SUPPORT.....	284,433	284,433
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	5,969	5,969
PLATOON LEADER CLASS.....	7,601	7,601
EDUCATION BENEFITS.....	4,808	4,808
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	868,694	868,694
UNDISTRIBUTED ADJUSTMENT.....	---	-25,130
	=====	=====
TOTAL, TITLE I, RESERVE PERSONNEL, MARINE CORPS.....	868,694	843,564
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	82,000	82,000
TOTAL, RESERVE PERSONNEL, MARINE CORPS.....	950,694	925,564
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-25,130
Historical unobligated balances		-6,805
Revised budget estimate		-17,500
Rate adjustments		-825

RESERVE PERSONNEL, AIR FORCE

The agreement provides \$2,193,493,000 for Reserve Personnel, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 31A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RESERVE PERSONNEL, AIR FORCE		
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	718,645	718,645
PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	106,715	106,715
PAY GROUP F TRAINING (RECRUITS).....	51,699	51,699
PAY GROUP P TRAINING (PIPELINE RECRUITS).....	2,412	2,412
MOBILIZATION TRAINING.....	587	587
SCHOOL TRAINING.....	196,375	196,375
SPECIAL TRAINING.....	356,044	356,044
ADMINISTRATION AND SUPPORT.....	689,523	689,523
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	5,406	5,406
EDUCATION BENEFITS.....	12,780	12,780
HEALTH PROFESSION SCHOLARSHIP.....	64,599	64,599
OTHER PROGRAMS (ADMIN & SUPPORT).....	3,038	3,038
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	2,207,823	2,207,823
UNDISTRIBUTED ADJUSTMENT.....	---	-14,330
	=====	=====
TOTAL, TITLE I, RESERVE PERSONNEL, AIR FORCE.....	2,207,823	2,193,493
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	150,000	150,000
TOTAL, RESERVE PERSONNEL, AIR FORCE.....	2,357,823	2,343,493
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-14,330
Historical unobligated balances		-10,755
Revised budget estimate		-2,750
Rate adjustments		-825

(31B)

NATIONAL GUARD PERSONNEL, ARMY

The agreement provides \$8,663,999,000 for National Guard Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 32A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

NATIONAL GUARD PERSONNEL, ARMY		
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	2,711,190	2,711,190
PAY GROUP F TRAINING (RECRUITS).....	549,848	549,848
PAY GROUP P TRAINING (PIPELINE RECRUITS).....	45,649	45,649
SCHOOL TRAINING.....	575,633	575,633
SPECIAL TRAINING.....	817,826	838,826
ADMINISTRATION AND SUPPORT.....	4,052,288	4,052,288
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	29,324	29,324
EDUCATION BENEFITS.....	48,353	48,353
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	8,830,111	8,851,111
UNDISTRIBUTED ADJUSTMENT.....	---	-188,646
TRAUMA TRAINING.....	---	1,534
	=====	=====
TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, ARMY.....	8,830,111	8,663,999
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	744,000	744,000
TOTAL, NATIONAL GUARD PERSONNEL, ARMY.....	9,574,111	9,407,999
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
SPECIAL TRAINING	817,826	838,826
Program increase - State Partnership Program		13,500
Program increase - critical cybersecurity skillsets		1,000
Program increase - wildfire training		6,500
UNDISTRIBUTED ADJUSTMENTS		-188,646
Historical unobligated balances		-101,745
Revised budget estimate		-83,250
Rate adjustments		-3,651
TRAUMA TRAINING		1,534

NATIONAL GUARD PERSONNEL, AIR FORCE

The agreement provides \$4,530,091,000 for National Guard Personnel, Air Force,
as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 33A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

NATIONAL GUARD PERSONNEL, AIR FORCE		
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	949,382	949,382
PAY GROUP F TRAINING (RECRUITS).....	97,078	97,078
PAY GROUP P TRAINING (PIPELINE RECRUITS).....	7,829	7,829
SCHOOL TRAINING.....	361,527	361,527
SPECIAL TRAINING.....	245,500	254,892
ADMINISTRATION AND SUPPORT.....	2,857,955	2,857,955
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	14,675	14,675
EDUCATION BENEFITS.....	13,141	13,141

TOTAL, BUDGET ACTIVITY 1.....	4,547,087	4,556,479
UNDISTRIBUTED ADJUSTMENT.....	---	-28,630
TRAUMA TRAINING.....	---	2,242
=====		
TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, AIR FORCE.	4,547,087	4,530,091
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	279,000	279,000
TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,826,087	4,809,091
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
SPECIAL TRAINING	245,500	254,892
Program increase - State Partnership Program		4,677
Program increase - critical skillsets crosstraining		2,000
Program increase - wildfire training		2,715
UNDISTRIBUTED ADJUSTMENTS		-28,630
Historical unobligated balances		-4,005
Revised budget estimate		-24,625
TRAUMA TRAINING		2,242

TITLE II – OPERATION AND MAINTENANCE

The agreement provides \$192,213,468,000 in Title II, Operation and Maintenance, as follows:

~~(INSERT O&M RECAP TABLE)~~ e

Insert 39A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RECAPITULATION		
OPERATION & MAINTENANCE, ARMY.....	40,312,968	38,418,982
OPERATION & MAINTENANCE, NAVY.....	49,692,742	47,632,527
OPERATION & MAINTENANCE, MARINE CORPS.....	7,328,607	7,286,184
OPERATION & MAINTENANCE, AIR FORCE.....	34,750,597	33,528,409
OPERATION & MAINTENANCE, SPACE FORCE.....	2,531,294	2,492,114
OPERATION & MAINTENANCE, DEFENSE-WIDE.....	38,649,079	39,048,990
OPERATION & MAINTENANCE, ARMY RESERVE.....	2,934,717	2,887,898
OPERATION & MAINTENANCE, NAVY RESERVE.....	1,127,046	1,115,150
OPERATION & MAINTENANCE, MARINE CORPS RESERVE.....	284,656	283,494
OPERATION & MAINTENANCE, AIR FORCE RESERVE.....	3,350,284	3,268,461
OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.....	7,420,014	7,350,837
OPERATION & MAINTENANCE, AIR NATIONAL GUARD.....	6,753,642	6,785,853
UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES...	15,211	15,211
ENVIRONMENTAL RESTORATION, ARMY.....	207,518	264,285
ENVIRONMENTAL RESTORATION, NAVY.....	335,932	421,250
ENVIRONMENTAL RESTORATION, AIR FORCE.....	303,926	509,250
ENVIRONMENTAL RESTORATION, DEFENSE-WIDE.....	9,105	19,952
ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES	216,587	288,750
OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID.....	109,900	147,500
COOPERATIVE THREAT REDUCTION ACCOUNT.....	238,490	360,190
DOD ACQUISITION WORKFORCE DEVELOPMENT FUND.....	58,181	88,181
	=====	=====
GRAND TOTAL, OPERATION & MAINTENANCE.....	196,630,496	192,213,468
	=====	=====

REPROGRAMMING GUIDANCE FOR OPERATION AND MAINTENANCE ACCOUNTS
(INCLUDING BASE AND OVERSEAS CONTINGENCY OPERATIONS FUNDING)

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

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

Army:

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

Navy:

- Mission and other flight operations
- Fleet air training
- Aircraft depot maintenance

Mission and other ship operations
Ship depot maintenance
Facilities sustainment, restoration, and modernization

Marine Corps:

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

Air Force:

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

Air Force Reserve:

Primary combat forces

Air National Guard:

Aircraft operations

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

Operation and Maintenance, Army:

Recruiting and advertising

Operation and Maintenance, Army National Guard:

Other personnel support/recruiting and advertising

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 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 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 BUDGET EXECUTION DATA

The Secretary of Defense is directed 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.

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE

The fiscal year 2021 President's budget request proposes to transfer \$140,320,000 from the Department of Defense Acquisition Workforce Development Account (DAWDA) to the Services' operation and maintenance accounts for the acquisition workforce. This transfer is supported as requested, and details are displayed in the table below. The funding in the table is designated as a congressional special interest item for the purpose of Base for Reprogramming. It is directed that the Under Secretary of Defense (Comptroller) and the Service Secretaries shall use normal prior approval reprogramming procedures prior to obligating or expending these funds for any purpose other than the acquisition workforce.

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

While the fiscal year 2021 Service budget justification materials show the transfer of funds from the DAWDA, it is noted that these funds are encompassed within large funding lines, which limits visibility and insight into, and execution of, requested funding specifically for the acquisition workforce. Therefore, with submission of the fiscal year 2022 President's budget request, the respective Service acquisition executives are directed to provide a report to the congressional defense committees identifying their respective acquisition workforce requirements in support of the acquisition programs included in the fiscal year 2022 future years defense program. Further, the respective Service financial managers and comptroller of the Army, Navy, and Air Force are directed to certify, with submission of the fiscal year 2022 President's budget request, to

the congressional defense committees, that these acquisition workforce requirements are fully funded in the fiscal year 2022 President's budget request.

The Under Secretary of Defense (Comptroller), in coordination with the respective Service acquisition executives and financial managers and comptroller, is directed, beginning with the fiscal year 2023 President's budget request, to establish unique defense acquisition workforce sub-activity groups for each operation and maintenance account that contains such funding. Further, the Under Secretary of Defense (Comptroller), in coordination with the respective Service acquisition executives and financial managers and comptroller, is directed to work with the House and Senate Appropriations Committees to develop performance criteria metrics to be included in the OP-5 budget exhibit for the new sub-activity group in order to increase visibility and clarity into funding for the defense acquisition workforce.

REPROGRAMMING GUIDANCE FOR SPECIAL OPERATIONS COMMAND

The agreement directs the Secretary of Defense to submit a baseline report that shows the Special Operations Command's operation and maintenance funding by sub-activity group for the fiscal year 2021 appropriation not later than 60 days after the enactment of this Act. The Secretary of Defense is further directed to submit quarterly execution reports to the congressional defense committees not later than 45 days after the end of each fiscal quarter that addresses the rationale for the realignment of any funds within and between budget sub-activities and the movement of any base funds used to support overseas contingency operations. Finally, the Secretary of Defense is directed to notify the congressional defense committees 30 days prior to the realignment of funds in excess of \$10,000,000 between sub-activity groups.

DEPARTMENT OF DEFENSE AUDIT

The Under Secretary of Defense (Comptroller), in coordination with the respective Service Financial Manager and Comptroller, is directed to develop a budget exhibit, for submission with the fiscal year 2022 President's budget request, detailing the costs of the Department of Defense audit. The exhibit shall include three separate budget tables; one showing costs for Audit Services, one for Audit Support, and one for Remediation, which includes remediating audit findings related to financial systems. Each table shall include the following elements:

- (1) Appropriation
- (2) Budget line item number/sub-activity group
- (3) Budget line item title
- (4) Prior year dollars in thousands (showing actuals)
- (5) Current year dollars in thousands
- (6) Budget year dollars in thousands
- (7) Description, which shall define what the funds in each line item purchase
- (8) Explanation of change, which shall explain any significant changes between the current year projection and the budget request.

SPARE PARTS STOCK

The Service Secretaries and the Director of the Defense Logistics Agency are directed to conduct analysis on spare parts requirements to determine the spares levels necessary to enable the armed forces to fulfill the strategic and contingency plans in accordance with the National Defense Strategy.

OPERATION AND MAINTENANCE BUDGET JUSTIFICATION

The agreement recommends two changes to the budget justification documents to further inform the congressional review. First, the Secretary of the Air Force shall

include the average FTE cost (annual average salary) in the Personnel Summary section of the OP-5 exhibit for each sub-activity group. This direction applies to all Air Force components. Second, for the Operation and Maintenance, Defense-Wide appropriation, the Secretary of Defense shall submit a separate OP-5 and OP-32 exhibit for each line that is requested on the O-1 breakout of Operation and Maintenance Programs.

PER- AND POLYFLUOROALKYL SUBSTANCES CLEANUP COST REPORTING

The agreement adopts the reporting requirements contained under the heading “Per- and Polyfluoroalkyl Substances Cleanup Cost Reporting” in House Report 116-453 but changes the reporting requirement frequency from quarterly to semi-annually.

DRINKING WATER CONTAMINATION

The Director of the Department of Defense PFAS Task Force is directed to brief the House and Senate Appropriations Committees not later than 180 days after the enactment of this Act on research efforts regarding aqueous film forming foam replacement solutions and alternatives, to include cost implications and the testing of products to ensure they meet military standards.

STANDARDS AND PROTOCOLS ON COUNTERING CYBERSECURITY INCIDENTS

The agreement adopts the reporting requirements contained under the heading “Standards and Protocols on Countering Cybersecurity Incidents” in House Report 116-453 but designates the Secretary of Defense to the consulting role as opposed to the lead for this deliverable.

COLLECTIVE BARGAINING

There are concerns with a January 29, 2020, Presidential memorandum delegating to the Secretary of Defense the President’s long-standing authority to exclude

Department of Defense agencies and subdivisions from being covered under the Federal Service Labor-Management Relations Statute pursuant to 5 U.S.C. Section 7103(b)(1) or (2) of title 5, which outlines collective bargaining rights for Federal employees.

Acknowledging the risks associated with broadly exempting agencies or subdivisions that have been operating successfully without the exemption, Secretary of Defense is expected to continue to apply rigorous internal processes requiring Department of Defense components to submit significant documentation to support any request to exclude its agencies or subdivisions from collective bargaining.

FEDERAL LAW ENFORCEMENT

The agreement notes that the explanatory statement accompanying the Commerce, Justice, Science, and Related Agencies Appropriations Act, 2021 directs the Attorney General to ensure implementation of evidence-based training programs on de-escalation and the use-of-force, as well as on police-community relations, that are broadly applicable and scalable to all Federal law enforcement agencies. The agreement further notes that several agencies funded by this Act employ Federal law enforcement officers and are Federal Law Enforcement Training Centers partner organizations. The agreement directs such agencies to consult with the Attorney General regarding the implementation of these programs for their law enforcement officers. The agreement further directs such agencies to brief the Committees on Appropriations on their efforts relating to such implementation no later than 90 days after consultation with the Attorney General. In addition, the agreement directs such agencies, to the extent that they are not already participating, to consult with the Attorney General and the Director of the FBI regarding participation in the National Use-of-Force Data Collection. The agreement further directs such agencies to brief the Committees on Appropriations, no later than 90 days after enactment of this Act, on their current efforts to so participate.

OPERATION AND MAINTENANCE, ARMY

The agreement provides \$38,418,982,000 for Operation and Maintenance, Army,
as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 43A-F

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, ARMY		
BUDGET ACTIVITY 1: OPERATING FORCES		
LAND FORCES		
20	MODULAR SUPPORT BRIGADES.....	159,834 137,834
30	ECHELONS ABOVE BRIGADES.....	663,751 660,951
40	THEATER LEVEL ASSETS.....	956,477 926,477
50	LAND FORCES OPERATIONS SUPPORT.....	1,157,635 1,157,635
60	AVIATION ASSETS.....	1,453,024 1,306,024
LAND FORCES READINESS		
70	FORCE READINESS OPERATIONS SUPPORT.....	4,713,660 3,651,660
80	LAND FORCES SYSTEMS READINESS.....	404,161 394,161
90	LAND FORCES DEPOT MAINTENANCE.....	1,413,359 1,371,359
LAND FORCES READINESS SUPPORT		
100	BASE OPERATIONS SUPPORT.....	8,220,093 8,241,093
110	FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION..	3,581,071 3,582,071
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	411,844 411,844
COMBATANT COMMAND SUPPORT		
160	US AFRICA COMMAND.....	239,387 278,137
170	US EUROPEAN COMMAND.....	160,761 159,011
180	US SOUTHERN COMMAND.....	197,826 198,076
190	US FORCES KOREA.....	65,152 65,152
200	CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	430,109 425,309
210	CYBER SPACE ACTIVITIES - CYBERSECURITY.....	464,117 464,117

	TOTAL, BUDGET ACTIVITY 1.....	24,692,261 23,430,911
BUDGET ACTIVITY 2: MOBILIZATION		
MOBILITY OPERATIONS		
220	STRATEGIC MOBILITY.....	402,236 402,236
230	ARMY PREPOSITIONED STOCKS.....	324,306 324,306
240	INDUSTRIAL PREPAREDNESS.....	3,653 3,653

	TOTAL, BUDGET ACTIVITY 2.....	730,195 730,195
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
ACCESSION TRAINING		
250	OFFICER ACQUISITION.....	165,142 165,142
260	RECRUIT TRAINING.....	76,509 73,509

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
270 ONE STATION UNIT TRAINING.....	88,523	75,523
280 SENIOR RESERVE OFFICERS TRAINING CORPS.....	535,578	537,078
BASIC SKILL AND ADVANCED TRAINING		
290 SPECIALIZED SKILL TRAINING.....	981,436	974,436
300 FLIGHT TRAINING.....	1,204,768	1,204,768
310 PROFESSIONAL DEVELOPMENT EDUCATION.....	215,195	215,195
320 TRAINING SUPPORT.....	575,232	575,232
RECRUITING AND OTHER TRAINING AND EDUCATION		
330 RECRUITING AND ADVERTISING.....	722,612	719,612
340 EXAMINING.....	185,522	185,522
350 OFF-DUTY AND VOLUNTARY EDUCATION.....	221,503	221,503
360 CIVILIAN EDUCATION AND TRAINING.....	154,651	152,151
370 JUNIOR RESERVE OFFICERS TRAINING CORPS.....	173,286	185,486

TOTAL, BUDGET ACTIVITY 3.....	5,299,957	5,285,157
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
LOGISTICS OPERATIONS		
390 SERVICEWIDE TRANSPORTATION.....	491,926	491,926
400 CENTRAL SUPPLY ACTIVITIES.....	812,613	812,613
410 LOGISTICS SUPPORT ACTIVITIES.....	676,178	673,178
420 AMMUNITION MANAGEMENT.....	437,774	437,774
SERVICEWIDE SUPPORT		
430 ADMINISTRATION.....	438,048	438,048
440 SERVICEWIDE COMMUNICATIONS.....	1,638,872	1,548,872
450 MANPOWER MANAGEMENT.....	300,046	295,046
460 OTHER PERSONNEL SUPPORT.....	701,103	701,103
470 OTHER SERVICE SUPPORT.....	1,887,133	1,879,833
480 ARMY CLAIMS ACTIVITIES.....	195,291	195,291
490 REAL ESTATE MANAGEMENT.....	229,537	231,037
500 FINANCIAL MANAGEMENT AND AUDIT READINESS.....	306,370	306,370
510 INTERNATIONAL MILITARY HEADQUARTERS.....	373,030	373,030
520 MISC. SUPPORT OF OTHER NATIONS.....	32,719	32,719

(DOLLARS IN THOUSANDS)

BUDGET
REQUEST

FINAL
BILL

OTHER PROGRAMS		
OTHER PROGRAMS.....	1,069,915	1,079,115
<hr/>		
TOTAL, BUDGET ACTIVITY 4.....	9,590,555	9,495,955
HISTORICAL UNOBLIGATION.....	---	-50,000
P.L. 115-68 IMPLEMENTATION.....	---	250
OVERESTIMATION OF CIVILIAN FTE TARGETS.....	---	-125,000
PROJECTED CARRYOVER ADJUSTMENT.....	---	-20,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-330,486
DOD EXCEPTIONAL FAMILY.....	---	2,000
<hr/>		
TOTAL, OPERATION AND MAINTENANCE, ARMY.....	40,312,968	38,418,982
<hr/>		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
112 MODULAR SUPPORT BRIGADES	159,834	137,834
Reduce program growth - Dynamic Force Employment		-22,000
113 ECHELONS ABOVE BRIGADES	663,751	660,951
Reduce program growth - Dynamic Force Employment		-2,800
114 THEATER LEVEL ASSETS	956,477	926,477
Unjustified growth		-30,000
116 AVIATION ASSETS	1,453,024	1,306,024
Reduce program growth - Dynamic Force Employment		-64,000
Unjustified growth		-83,000
121 FORCE READINESS OPERATIONS SUPPORT	4,713,660	3,651,660
Unjustified growth		-100,000
Transfer to MP,A line 13		-10,000
Program increase - ultra lightweight camouflage net systems		20,000
Program increase - cold weather clothing		3,000
Program decrease unaccounted for		-20,000
Program increase - Pacific Deterrence Initiative exercises in support of INDOPACOM MDTF #1		45,000
Transfer to title IX		-1,000,000
122 LAND FORCES SYSTEMS READINESS	404,161	394,161
Excess personnel growth - Army Futures Command		-6,000
Unjustified growth		-4,000
123 LAND FORCES DEPOT MAINTENANCE	1,413,359	1,371,359
Unjustified growth		-42,000
131 BASE OPERATIONS SUPPORT	8,220,093	8,241,093
Excess growth		-69,000
Program increase - childcare		90,000
132 FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION	3,581,071	3,582,071
Program increase - security cameras		1,000
141 US AFRICA COMMAND	239,387	278,137
Program increase - personnel recovery and casualty evacuation		36,000
Program increase - implementation of P.L. 115-68		250
Program increase - force protection upgrades - personnel recovery and casualty evacuation		2,500
142 US EUROPEAN COMMAND	160,761	159,011
Program increase - implementation of P.L. 115-68		250
Unjustified growth		-2,000

O-1	Budget Request	Final Bill
143 US SOUTHERN COMMAND Program increase - implementation of P.L. 115-68	197,826	198,076 250
151 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS Program transfer unaccounted for	430,109	425,309 -4,800
312 RECRUIT TRAINING Unjustified growth	76,509	73,509 -3,000
313 ONE STATION UNIT TRAINING Unjustified growth Excess personnel growth	88,523	75,523 -10,000 -3,000
314 SENIOR RESERVE OFFICERS TRAINING CORPS Program increase - ROTC helicopter training program	535,578	537,078 1,500
321 SPECIALIZED SKILL TRAINING Excess personnel growth	981,436	974,436 -7,000
331 RECRUITING AND ADVERTISING Unjustified growth	722,612	719,612 -3,000
334 CIVILIAN EDUCATION AND TRAINING Excess personnel growth	154,651	152,151 -2,500
335 JUNIOR RESERVE OFFICERS TRAINING CORPS Program increase Program increase - JROTC STEM training and education	173,286	185,486 9,200 3,000
423 LOGISTICS SUPPORT ACTIVITIES Unjustified personnel growth	676,178	673,178 -3,000
432 SERVICEWIDE COMMUNICATIONS Unjustified growth	1,638,872	1,548,872 -90,000
433 MANPOWER MANAGEMENT Unjustified growth	300,046	295,046 -5,000
435 OTHER SERVICE SUPPORT Program increase - Capitol Fourth Program increase - Women in Military Service Museum Unjustified growth	1,887,133	1,879,833 1,700 3,000 -12,000
437 REAL ESTATE MANAGEMENT Program increase - real estate inventory tool	229,537	231,037 1,500
411 OTHER PROGRAMS Program increase Program increase - ISR SOUTHCOM overland airborne ISR operations	1,069,915	1,079,115 700 8,500

O-1	Budget Request	Final Bill
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-330,486
HISTORICAL UNOBLIGATION		-50,000
P.L. 115-68 IMPLEMENTATION		250
PROJECTED CARRYOVER ADJUSTMENT		-20,000
OVERESTIMATION OF CIVILIAN FTE TARGETS		-125,000
PROGRAM INCREASE - DOD EXCEPTIONAL FAMILY		2,000

43F

DYNAMIC FORCE EMPLOYMENT

The agreement provides a total of \$250,000,000 in Operation and Maintenance, Army for Dynamic Force Employment and designates the funding a congressional special interest item. The Secretary of Defense is directed to submit a quarterly report on the use of the Dynamic Force Employment funds for any and all activities or exercises for which funds are utilized in fiscal year 2021. The reports shall include, but not be limited to, the following elements for each exercise: title, date, location, which Services and units participated (with an estimated number of participants), total cost by budget line item (with a breakdown by cost element such as transportation and repair parts), and a short explanation of the objective. The reports shall be submitted to the congressional defense committees not later than 30 days after the close of each quarter of the fiscal year.

PILOT PROGRAM FOR ONLINE REAL ESTATE INVENTORY TOOLS

The agreement recommends an additional \$1,500,000 which the Secretary of the Army shall use for a pilot program to pursue the use of information technology tools to better market space available and more quickly determine which real estate should be divested to further achieve efficiencies within the United States Army Installation Management Command. The Secretary of the Army is directed to provide a report to the House and Senate Appropriations Committees not later than May 1, 2021, that includes a list of installations selected for the pilot program, an outline for the deployment of this capability to the selected installations, and a cost estimate to expand the tool to all Army installations.

OPERATION AND MAINTENANCE, NAVY

The agreement provides \$47,632,527,000 for Operation and Maintenance, Navy,
as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 45A-F

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, NAVY		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10	MISSION AND OTHER FLIGHT OPERATIONS.....	5,738,746 5,638,746
20	FLEET AIR TRAINING.....	2,213,673 2,189,173
30	AVIATION TECHNICAL DATA AND ENGINEERING SERVICES.....	57,144 57,144
40	AIR OPERATIONS AND SAFETY SUPPORT.....	171,949 170,828
50	AIR SYSTEMS SUPPORT.....	838,767 833,767
60	AIRCRAFT DEPOT MAINTENANCE.....	1,459,447 1,452,447
70	AIRCRAFT DEPOT OPERATIONS SUPPORT.....	57,789 57,789
80	AVIATION LOGISTICS.....	1,264,665 1,246,665
SHIP OPERATIONS		
100	SHIP OPERATIONS SUPPORT AND TRAINING.....	1,117,067 1,092,067
110	SHIP DEPOT MAINTENANCE.....	7,859,104 6,809,241
120	SHIP DEPOT OPERATIONS SUPPORT.....	2,262,196 2,264,796
COMBAT COMMUNICATIONS/SUPPORT		
130	COMBAT COMMUNICATIONS.....	1,521,360 1,498,360
150	SPACE SYSTEMS AND SURVEILLANCE.....	274,087 274,087
160	WARFARE TACTICS.....	741,609 744,109
170	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY.....	401,382 401,382
180	COMBAT SUPPORT FORCES.....	1,546,273 1,511,273
190	EQUIPMENT MAINTENANCE.....	177,951 177,951
210	COMBATANT COMMANDERS CORE OPERATIONS.....	61,484 66,584
220	COMBATANT COMMANDERS DIRECT MISSION SUPPORT.....	102,330 112,630
230	MILITARY INFORMATION SUPPORT OPERATIONS.....	8,810 8,810
240	CYBERSPACE ACTIVITIES.....	567,496 567,496
WEAPONS SUPPORT		
260	FLEET BALLISTIC MISSILE.....	1,428,102 1,428,102
280	WEAPONS MAINTENANCE.....	995,762 958,487
290	OTHER WEAPON SYSTEMS SUPPORT	524,008 524,008
BASE SUPPORT		
300	ENTERPRISE INFORMATION TECHNOLOGY.....	1,229,056 1,207,056
310	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	3,453,099 3,484,031

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
320 BASE OPERATING SUPPORT.....	4,627,966	4,533,062
TOTAL, BUDGET ACTIVITY 1.....	40,701,322	39,310,091
BUDGET ACTIVITY 2: MOBILIZATION		
330 READY RESERVE AND PREPOSITIONING FORCES SHIP PREPOSITIONING AND SURGE.....	849,993	834,993
340 READY RESERVE FORCE.....	436,029	376,029
360 ACTIVATIONS/INACTIVATIONS SHIP ACTIVATIONS/INACTIVATIONS.....	286,416	260,424
370 MOBILIZATION PREPAREDNESS FLEET HOSPITAL PROGRAM.....	99,402	99,402
390 COAST GUARD SUPPORT.....	25,235	25,235
TOTAL, BUDGET ACTIVITY 2.....	1,697,075	1,596,083
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
400 ACCESSION TRAINING OFFICER ACQUISITION.....	186,117	176,117
410 RECRUIT TRAINING.....	13,206	13,206
420 RESERVE OFFICERS TRAINING CORPS.....	163,683	163,683
430 BASIC SKILLS AND ADVANCED TRAINING SPECIALIZED SKILL TRAINING.....	947,841	937,841
450 PROFESSIONAL DEVELOPMENT EDUCATION.....	367,647	347,647
460 TRAINING SUPPORT.....	254,928	254,928
470 RECRUITING, AND OTHER TRAINING AND EDUCATION RECRUITING AND ADVERTISING.....	206,305	210,605
480 OFF-DUTY AND VOLUNTARY EDUCATION.....	103,799	103,799
490 CIVILIAN EDUCATION AND TRAINING.....	66,060	66,060
500 JUNIOR ROTC.....	56,276	62,776
TOTAL, BUDGET ACTIVITY 3.....	2,365,862	2,336,662
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
510 SERVICEWIDE SUPPORT ADMINISTRATION.....	1,249,410	1,215,910
530 CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT.....	189,625	189,625
540 MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....	499,904	496,933
560 MEDICAL ACTIVITIES.....	196,747	196,747

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
LOGISTICS OPERATIONS AND TECHNICAL SUPPORT		
580 SERVICEWIDE TRANSPORTATION.....	165,708	165,708
600 PLANNING, ENGINEERING AND DESIGN.....	519,716	516,716
610 ACQUISITION AND PROGRAM MANAGEMENT.....	751,184	738,275
SECURITY PROGRAMS		
650 NAVAL INVESTIGATIVE SERVICE.....	747,519	747,519
OTHER PROGRAMS		
OTHER PROGRAMS.....	608,670	613,195
TOTAL, BUDGET ACTIVITY 4.....	4,928,483	4,880,628
UNJUSTIFIED GROWTH.....	---	-100,000
UNJUSTIFIED GROWTH FOR CIVILIAN FTES.....	---	-10,000
PROJECTED CARRYOVER ADJUSTMENT.....	---	-25,000
PROGRAM INCREASE: USS BONHOMME RICHARD.....	---	30,000
HISTORICAL UNOBLIGATION.....	---	-50,000
P.L. 115-68 IMPLEMENTATION.....	---	250
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-338,187
DOD EXCEPTIONAL FAMILY.....	---	2,000
TOTAL, OPERATION AND MAINTENANCE, NAVY.....	49,692,742	47,632,527

450

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A MISSION AND OTHER FLIGHT OPERATIONS	5,738,746	5,638,746
Unjustified growth		-100,000
1A2A FLEET AIR TRAINING	2,213,673	2,189,173
Unjustified increase		-25,000
Program increase - advanced skills management legacy systems upgrades		500
1A4A AIR OPERATIONS AND SAFETY SUPPORT	171,949	170,828
Unjustified growth		-1,121
1A4N AIR SYSTEMS SUPPORT	838,767	833,767
Unjustified increase		-5,000
1A5A AIRCRAFT DEPOT MAINTENANCE	1,459,447	1,452,447
Insufficient justification		-7,000
1A9A AVIATION LOGISTICS	1,264,665	1,246,665
Unjustified increase		-18,000
1B2B SHIP OPERATIONS SUPPORT AND TRAINING	1,117,067	1,092,067
Unjustified increase		-25,000
1B4B SHIP DEPOT MAINTENANCE	7,859,104	6,809,241
Unjustified increase		-55,000
Transfer to title IX		-1,017,423
Program increase - surge		1,000
Program increase only for USS FORT WORTH and USS CORONADO		21,560
1B5B SHIP DEPOT OPERATIONS SUPPORT	2,262,196	2,264,796
Unjustified growth		-40,000
Program increase only for USS FORT WORTH and USS CORONADO		42,600
1C1C COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE	1,521,360	1,498,360
Unjustified growth		-20,000
Remove one-time fiscal year 2020 increase		-3,000
1C4C WARFARE TACTICS	741,609	744,109
Program increase - shipboard bilge water disposal		2,500
1C6C COMBAT SUPPORT FORCES	1,546,273	1,511,273
Unjustified increase		-35,000
1CCH COMBATANT COMMANDERS CORE OPERATIONS	61,484	66,584
Program increase - Asia Pacific Regional Initiative		4,600
Program increase - implementation of P.L. 115-68		500

O-1	Budget Request	Final Bill
1CCM COMBATANT COMMANDERS DIRECT MISSION SUPPORT	102,330	112,630
Program increase - Pacific Deterrence Initiative - Joint Task Force Indo-Pacific (SOCPAC)		6,300
Program increase - Pacific Deterrence Initiative - Singapore CTIF fusion center		2,000
Program increase - Pacific Multi-Domain Training and Experimentation Capability		2,000
1D4D WEAPONS MAINTENANCE	995,762	958,487
Unjustified increase		-30,000
Transfer to title IX		-10,775
Program transfer unaccounted for		-7,000
Program increase - three additional Phalanx CIWS overhauls		10,500
BSIT ENTERPRISE INFORMATION TECHNOLOGY	1,229,056	1,207,056
Unjustified increase		-22,000
BSM1 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	3,453,099	3,484,031
Program increase - fire and seismic protections for public shipyards		20,000
Navy requested transfer from RDTE,N line 184		27,748
Transfer lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force		-16,816
BSS1 BASE OPERATING SUPPORT	4,627,966	4,533,062
Unjustified increase		-20,000
Unjustified personnel increase		-3,000
Program increase - PFAS remediation		11,100
Program increase - mil spec fluorine-free fire-fighting agent		2,500
Transfer lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force		-85,504
2A1F SHIP PREPOSITIONING AND SURGE	849,993	834,993
Unjustified increase		-15,000
2A2F READY RESERVE FORCE	436,029	376,029
Transfer - two used sealift vessels for National Defense Reserve Fleet to SCN		-60,000
2B2G SHIP ACTIVATIONS/INACTIVATIONS	286,416	260,424
Unjustified increase		-20,000
Littoral Combat Ship inactivation		-5,992
3A1J OFFICER ACQUISITION	186,117	176,117
Insufficient justification		-10,000
3B1K SPECIALIZED SKILL TRAINING	947,841	937,841
Unjustified increase		-10,000
3B3K PROFESSIONAL DEVELOPMENT EDUCATION	367,647	347,647
Insufficient justification		-20,000

O-1	Budget Request	Final Bill
3C1L RECRUITING AND ADVERTISING	206,305	210,605
Program increase - Sea Cadets		4,300
3C5L JUNIOR ROTC	56,276	62,776
Program increase		4,000
Program increase - JROTC STEM training and education		2,500
4A1M ADMINISTRATION	1,249,410	1,215,910
Unjustified increase		-20,000
Insufficient justification		-10,000
Unjustified personnel increase		-3,500
4A4M MILITARY MANPOWER AND PERSONNEL MANAGEMENT	499,904	496,933
Transfer lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force		-2,971
4B2N PLANNING, ENGINEERING AND DESIGN	519,716	516,716
Unjustified growth		-3,000
4B3N ACQUISITION, LOGISTICS AND OVERSIGHT	751,184	738,275
Program decrease unaccounted for		-12,000
Transfer lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force		-909
OTHER PROGRAMS	608,670	613,195
Program increase		4,525
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-338,187
PROJECTED CARRYOVER ADJUSTMENT		-25,000
HISTORICAL UNOBLIGATION		-50,000
UNJUSTIFIED GROWTH		-100,000
P.L. 115-68 IMPLEMENTATION		250
OVERESTIMATION OF CIVILIAN FTE TARGETS		-10,000
PROGRAM INCREASE - USS BONHOMME RICHARD		30,000
PROGRAM INCREASE - DOD EXCEPTIONAL FAMILY		2,000

NAVAL SHIPYARD APPRENTICE PROGRAM

The Secretary of the Navy is directed to induct classes of not fewer than 100 apprentices at each of the respective naval shipyards and to include the costs of the fiscal year 2022 class of apprentices in its budget request.

UNITED STATES COAST GUARD

The agreement directs that funds appropriated under Operation and Maintenance, Navy may be used to pay overhead costs incurred by a naval shipyard when drydocking United States Coast Guard ships.

PACIFIC UNDERWATER TRAINING RANGES

The Secretary of the Navy is directed to provide a report to the House and Senate Appropriations Committees detailing the Navy's plans for the Barking Sands Tactical Underwater Range and Barking Sands Underwater Range Expansion not later than 180 days after the enactment of this Act. The report shall include a budgetary plan and timeline to recapitalize and modernize the ranges and interim risk reduction efforts to ensure that the ranges can continue to deliver a realistic environment for testing and training until the Navy completes its full recapitalization and modernization plan.

OPERATION AND MAINTENANCE, MARINE CORPS

The agreement provides \$7,286,184,000 for Operation and Maintenance, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 47A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, MARINE CORPS		
BUDGET ACTIVITY 1: OPERATING FORCES		
EXPEDITIONARY FORCES		
10	OPERATIONAL FORCES.....	941,143 871,973
20	FIELD LOGISTICS.....	1,277,798 1,262,798
30	DEPOT MAINTENANCE.....	206,907 168,414
USMC PREPOSITIONING		
40	MARITIME PREPOSITIONING.....	103,614 103,614
COMBAT OPERATIONS/SUPPORT		
50	CYBERSPACE ACTIVITIES.....	215,974 210,974
BASE SUPPORT		
60	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	938,063 938,063
70	BASE OPERATING SUPPORT.....	2,264,680 2,406,966
	TOTAL, BUDGET ACTIVITY 1.....	5,948,179 5,962,802
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
ACCESSION TRAINING		
80	RECRUIT TRAINING.....	20,751 20,751
90	OFFICER ACQUISITION.....	1,193 1,193
BASIC SKILLS AND ADVANCED TRAINING		
100	SPECIALIZED SKILLS TRAINING.....	110,149 110,149
110	PROFESSIONAL DEVELOPMENT EDUCATION.....	69,509 61,509
120	TRAINING SUPPORT.....	412,613 407,613
RECRUITING AND OTHER TRAINING EDUCATION		
130	RECRUITING AND ADVERTISING.....	215,464 215,464
140	OFF-DUTY AND VOLUNTARY EDUCATION.....	33,719 33,719
150	JUNIOR ROTC.....	25,784 31,084
	TOTAL, BUDGET ACTIVITY 3.....	889,182 881,482
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
SERVICEWIDE SUPPORT		
160	SERVICEWIDE TRANSPORTATION.....	32,005 32,005
170	ADMINISTRATION.....	399,363 397,863
SECURITY PROGRAMS		
	SECURITY PROGRAMS.....	59,878 60,053
	TOTAL, BUDGET ACTIVITY 4.....	491,246 489,921

(DOLLARS IN THOUSANDS)

BUDGET
REQUEST

FINAL
BILL

PROGRAM INCREASE - P.L. 115-68 IMPLEMENTATION.....	---	250
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-48,271
	=====	=====
TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS.....	7,328,607	7,286,184
	=====	=====

47B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A OPERATIONAL FORCES	941,143	871,973
Reduce program growth - Dynamic Force Employment		-13,400
Program increase - cold weather clothing		2,000
Program decreases unaccounted for		-15,000
Marine Corps identified asset for company and unit deactivation		-4,703
Transfer to title IX - European Deterrence Initiative full request		-38,067
1A2A FIELD LOGISTICS	1,277,798	1,262,798
Unjustified growth		-15,000
1A3A DEPOT MAINTENANCE	206,907	168,414
Marine Corps identified asset for fiscal year 2021 depot maintenance workload		-38,493
1CCY CYBERSPACE ACTIVITIES	215,974	210,974
Overestimation of civilian FTE targets		-5,000
BSS1 BASE OPERATING SUPPORT	2,264,680	2,406,966
Unjustified personnel increase		-3,000
Program increase - childcare programs		26,000
Program increase - AFFF requirements		5,000
Program increase		114,286
3B3D PROFESSIONAL DEVELOPMENT EDUCATION	69,509	61,509
Insufficient justification		-8,000
3B4D TRAINING SUPPORT	412,613	407,613
Remove one-time fiscal year 2020 increase		-5,000
3C3F JUNIOR ROTC	25,784	31,084
Program increase		2,800
Program increase - JROTC STEM training and education		2,500
4A4G ADMINISTRATION	399,363	397,863
Unjustified growth		-1,500
4A7G SECURITY PROGRAMS	59,878	60,053
Program increase		175
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-48,271
P.L. 115-68 IMPLEMENTATION		250

47 C

OPERATION AND MAINTENANCE, AIR FORCE

The agreement provides \$33,528,409,000 for Operation and Maintenance, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 48A-F

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL	
OPERATION AND MAINTENANCE, AIR FORCE			
BUDGET ACTIVITY 1: OPERATING FORCES			
AIR OPERATIONS			
10	PRIMARY COMBAT FORCES.....	731,511 601,511	
20	COMBAT ENHANCEMENT FORCES.....	1,275,485 1,300,585	
30	AIR OPERATIONS TRAINING.....	1,437,095 1,422,095	
50	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	3,241,216 3,282,032	
50	CYBERSPACE SUSTAINMENT.....	235,816 235,816	
60	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	1,508,342 577,342	
70	FLYING HOUR PROGRAM.....	4,458,457 4,458,457	
80	BASE OPERATING SUPPORT.....	7,497,288 7,608,472	
COMBAT RELATED OPERATIONS			
90	GLOBAL C3I AND EARLY WARNING.....	849,842 863,642	
100	OTHER COMBAT OPERATIONS SUPPORT PROGRAMS.....	1,067,055 1,122,055	
110	CYBERSPACE ACTIVITIES.....	698,579 698,579	
SPACE OPERATIONS			
140	SPACE CONTROL SYSTEMS.....	34,194 34,194	
COCOM			
170	US NORTHCOM/NORAD.....	204,268 198,518	
180	US STRATCOM.....	526,809 527,059	
190	US CYBERCOM.....	314,524 307,774	
200	US CENTCOM.....	186,116 186,366	
210	US SOCOM.....	9,881 10,131	
220	US TRANSCOM.....	1,046 1,296	
230	USSPACECOM.....	249,022 244,272	
OPERATING FORCES CLASSIFIED PROGRAMS.....			1,289,339 1,278,339
TOTAL, BUDGET ACTIVITY 1.....		25,815,885 24,958,535	
BUDGET ACTIVITY 2: MOBILIZATION			
MOBILITY OPERATIONS			
230	AIRLIFT OPERATIONS.....	1,350,031 1,350,031	
240	MOBILIZATION PREPAREDNESS.....	647,168 624,241	
TOTAL, BUDGET ACTIVITY 2.....		1,997,199 1,974,272	

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
ACCESSION TRAINING		
280 OFFICER ACQUISITION.....	142,548	142,548
290 RECRUIT TRAINING.....	25,720	25,720
300 RESERVE OFFICER TRAINING CORPS (ROTC).....	128,295	128,295
BASIC SKILLS AND ADVANCED TRAINING		
330 SPECIALIZED SKILL TRAINING.....	417,335	399,335
340 FLIGHT TRAINING.....	615,033	615,033
350 PROFESSIONAL DEVELOPMENT EDUCATION.....	298,795	298,795
360 TRAINING SUPPORT.....	85,844	85,844
RECRUITING, AND OTHER TRAINING AND EDUCATION		
380 RECRUITING AND ADVERTISING.....	155,065	155,065
390 EXAMINING.....	4,474	4,474
400 OFF DUTY AND VOLUNTARY EDUCATION.....	219,349	219,349
410 CIVILIAN EDUCATION AND TRAINING.....	361,570	356,570
420 JUNIOR ROTC.....	72,126	81,126

TOTAL, BUDGET ACTIVITY 3.....	2,526,154	2,512,154
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
LOGISTICS OPERATIONS		
430 LOGISTICS OPERATIONS.....	672,426	662,426
440 TECHNICAL SUPPORT ACTIVITIES.....	145,130	145,130
SERVICEWIDE ACTIVITIES		
480 ADMINISTRATION.....	851,251	836,251
490 SERVICEWIDE COMMUNICATIONS.....	28,554	28,554
500 OTHER SERVICEWIDE ACTIVITIES.....	1,188,414	1,183,414
510 CIVIL AIR PATROL CORPORATION.....	28,772	43,205
SUPPORT TO OTHER NATIONS		
530 INTERNATIONAL SUPPORT.....	158,803	158,803
SECURITY PROGRAMS		
SECURITY PROGRAMS.....	1,338,009	1,341,328

TOTAL, BUDGET ACTIVITY 4.....	4,411,359	4,399,111
HISTORICAL UNOBLIGATION.....	---	-50,000
UNJUSTIFIED GROWTH.....	---	-60,000
PROJECTED CARRYOVER ADJUSTMENT.....	---	-75,000
PROGRAM TRANSFER UNACCOUNTED FOR.....	---	-15,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
P.L. 115-68 IMPLEMENTATION.....	---	250
AUTHORIZATION ADJUSTMENT: RESTORE A-10.....	---	67,000
AUTHORIZATION ADJUSTMENT: RESTORE KC-10.....	---	20,000
AUTHORIZATION ADJUSTMENT: RESTORE KC-135.....	---	40,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-255,163
ISR OPERATIONS OFFICE.....	---	10,000
DOD EXCEPTIONAL FAMILY.....	---	2,000
STUDY ON THE USE OF HIGH SPEED COMMERCIAL AIRCRAFT....	---	250
	=====	=====
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE.....	34,750,597	33,528,409
	=====	=====

48C

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
11A PRIMARY COMBAT FORCES	731,511	601,511
Transfer - Air Force requested transfer of combatant command exercise/operational funding within OM,AF		-130,000
11C COMBAT ENHANCEMENT FORCES	1,275,485	1,300,585
Program transfer unaccounted for		-5,000
Program decrease unaccounted for		-2,000
Transfer - Air Force requested transfer of combatant command exercise/operational funding within OM,AF		30,000
Program increase - RQ 4B		2,100
11D AIR OPERATIONS TRAINING	1,437,095	1,422,095
Unjustified growth		-25,000
Transfer - Air Force requested transfer of combatant command exercise/operational funding within OM,AF		10,000
11R FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	3,241,216	3,282,032
Transfer lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force		15,816
Program increase - natural disaster relief		25,000
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	1,508,342	577,342
Program decrease unaccounted for		-50,000
Unjustified growth		-50,000
Program increase - RQ-4B		169,000
Transfer to title IX		-1,000,000
11Z BASE OPERATING SUPPORT	7,497,288	7,608,472
Unjustified personnel increase		-3,000
Reduce program growth - Dynamic Force Employment		-10,200
Program decrease unaccounted for		-24,000
Unjustified growth		-35,000
Transfer lead service responsibilities for Joint Base Anacostia Bolling from Navy to Air Force		90,384
Transfer - Air Force requested transfer of combatant command exercise/operational funding within OM,AF		30,000
Program increase - natural disaster relief		75,000
Unjustified growth		-12,000
12A GLOBAL C3I AND EARLY WARNING	849,842	863,642
Insufficient justification		-9,000
Program decrease unaccounted for		-8,000
Program increase - Pacific Deterrence Initiative - Mission Partner Environment Implementation		30,800
12C OTHER COMBAT OPERATIONS SUPPORT PROGRAMS	1,067,055	1,122,055
Insufficient justification		-5,000
Transfer - Air Force requested transfer of combatant command exercise/operational funding within OM,AF		60,000

O-1		Budget Request	Final Bill
15C	US NORTHCOM/NORAD	204,268	198,518
	Program increase - implementation of P.L. 115-68		250
	Program decrease unaccounted for		-6,000
15D	US STRATCOM	526,809	527,059
	Program increase - implementation of P.L. 115-68		250
15E	US CYBERCOM	314,524	307,774
	Program increase - implementation of P.L. 115-68		250
	Program decrease unaccounted for		-7,000
15F	US CENTCOM	186,116	186,366
	Program increase - implementation of P.L. 115-68		250
15G	US SOCOM	9,881	10,131
	Program increase - implementation of P.L. 115-68		250
15H	US TRANSCOM	1,046	1,296
	Program increase - implementation of P.L. 115-68		250
15X	USSPACECOM	249,022	244,272
	Program increase - implementation of P.L. 115-68		250
	Unjustified growth		-5,000
	CLASSIFIED PROGRAMS	1,289,339	1,278,339
	Classified adjustment		-11,000
21D	MOBILIZATION PREPAREDNESS	647,168	624,241
	Air Force requested transfer to OP,AF line 49		-22,927
32A	SPECIALIZED SKILL TRAINING	417,335	399,335
	Program decrease unaccounted for		-18,000
33D	CIVILIAN EDUCATION AND TRAINING	361,570	356,570
	Insufficient justification		-10,000
	Program increase - manufacturing for reverse engineering efforts		5,000
33E	JUNIOR ROTC	72,126	81,126
	Program increase		4,000
	Program increase - JROTC STEM training and education		5,000
41A	LOGISTICS OPERATIONS	672,426	662,426
	Program decrease unaccounted for		-10,000
42A	ADMINISTRATION	851,251	836,251
	Insufficient justification		-15,000

O-1	Budget Request	Final Bill
42G OTHER SERVICEWIDE ACTIVITIES	1,188,414	1,183,414
Unjustified personnel increase		-5,000
42I CIVIL AIR PATROL CORPORATION	28,772	43,205
Program increase		14,433
43A SECURITY PROGRAMS	1,338,009	1,341,328
Program increase		3,319
HISTORICAL UNOBLIGATION		-50,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-255,163
UNJUSTIFIED GROWTH		-60,000
PROGRAM TRANSFER UNACCOUNTED FOR		-15,000
P.L. 115-68 IMPLEMENTATION		250
PROJECTED CARRYOVER ADJUSTMENT		-75,000
AUTHORIZATION ADJUSTMENT - RESTORE A -10		67,000
AUTHORIZATION ADJUSTMENT - RESTORE KC-10		20,000
AUTHORIZATION ADJUSTMENT - RESTORE KC-135		40,000
PROGRAM INCREASE - ISR OPERATIONS OFFICE		10,000
PROGRAM INCREASE - DOD EXCEPTIONAL FAMILY		2,000
PROGRAM INCREASE - STUDY ON THE USE OF HIGH SPEED COMMERCIAL AIRCRAFT		250

AIR FORCE PILOT SHORTAGE

House Report 116-453 included language expressing concerns with the Air Force's pilot shortage and directed the Secretary of the Air Force to provide a report on augmenting pilot training. While the Air Force is undertaking numerous initiatives to address the issue, there is still concern that these initiatives, when combined, will not increase pilot production to meet National Defense Strategy requirements. Therefore, the Commander of Air Education and Training Command and the Deputy Chief of Staff of Operations at United States Air Force Headquarters are directed to brief the House and Senate Appropriations Committees not later than 45 days after the enactment of this Act and quarterly thereafter on the status of the Air Force's pilot shortfall and all efforts aimed to address it. The briefing shall, at a minimum, include an update on the development of the Service's strategic plan to address the shortage, the metrics used to measure the effectiveness of all lines of effort, data comparing actual pilot production and monthly targets for each phase of training for all tracks, information on the impact of trainer aircraft maintenance and associated logistics efforts impacting the pilot training shortage to include aircraft availability rates for each platform, simulator usage and availability data, pilot retention metrics, and a comprehensive summary of all appropriated funds expended to date for each line of effort aimed at addressing the pilot shortfall.

UNCONTAMINATED WATER FOR AGRICULTURAL PURPOSES

The Secretary of Defense and the Secretary of the Air Force are urged to implement section 343 of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116-92).

OPERATION AND MAINTENANCE, SPACE FORCE

The agreement provides \$2,492,114,000 for Operation and Maintenance, Space Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert SOA-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, SPACE FORCE		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
20	GLOBAL C3I & EARLY WARNING.....	276,109 269,109
30	SPACE LAUNCH OPERATIONS.....	177,056 177,056
40	SPACE OPERATIONS.....	475,338 475,338
50	EDUCATION & TRAINING.....	18,660 18,660
60	SPECIAL PROGRAMS.....	137,315 137,315
70	DEPOT MAINTENANCE.....	250,324 250,324
80	CONTRACTOR LOGISTICS & SYSTEM SUPPORT.....	1,063,969 1,063,969
90	ADMINISTRATION.....	132,523 110,523
	TOTAL, BUDGET ACTIVITY 1.....	2,531,294 2,502,294
	UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	--- -180
	UNJUSTIFIED GROWTH.....	--- -10,000
	TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE.....	2,531,294 2,492,114
	=====	=====

SOA

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
12A GLOBAL C3I & EARLY WARNING	276,109	269,109
Insufficient justification		-7,000
42A ADMINISTRATION	132,523	110,523
Unjustified increase		-19,000
Unjustified personnel increase		-3,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-180
UNJUSTIFIED GROWTH		-10,000

SOB

OPERATION AND MAINTENANCE, DEFENSE-WIDE

The agreement provides \$39,048,990,000 for Operation and Maintenance, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert SIA-F

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, DEFENSE-WIDE		
BUDGET ACTIVITY 1: OPERATING FORCES		
10	JOINT CHIEFS OF STAFF.....	439,111 419,111
20	JOINT CHIEFS OF STAFF.....	535,728 535,728
30	JOINT CHIEFS OF STAFF - CYBER.....	24,728 24,728
SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT		
40	ACTIVITIES.....	1,069,971 1,060,775
50	SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES.....	9,800 9,800
60	SPECIAL OPERATIONS COMMAND INTELLIGENCE.....	561,907 555,077
70	SPECIAL OPERATIONS COMMAND MAINTENANCE.....	685,097 720,682
SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL		
80	HEADQUARTERS.....	158,971 165,668
90	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT.....	1,062,748 1,043,604
100	SPECIAL OPERATIONS COMMAND THEATER FORCES.....	2,598,385 2,555,527
	TOTAL, BUDGET ACTIVITY 1.....	7,146,446 7,090,700
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
50	DEFENSE ACQUISITION UNIVERSITY.....	162,963 162,963
JOINT CHIEFS OF STAFF RECRUITING, AND OTHER TRAINING		
60	AND EDUCATION.....	95,684 95,684
70	SPECIAL OPERATIONS COMMAND.....	33,301 33,868
	TOTAL, BUDGET ACTIVITY 3.....	291,948 292,515
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
80	CIVIL MILITARY PROGRAMS.....	147,993 281,167
100	DEFENSE CONTRACT AUDIT AGENCY.....	604,835 608,835
190	DEFENSE CONTRACT AUDIT AGENCY - CYBER.....	3,282 3,282
110	DEFENSE CONTRACT MANAGEMENT AGENCY.....	1,370,681 1,412,681
210	DEFENSE CONTRACT MANAGEMENT AGENCY - CYBER.....	22,532 22,532
120	DEFENSE HUMAN RESOURCES ACTIVITY.....	799,952 924,232
120	DEFENSE HUMAN RESOURCES ACTIVITY - CYBER.....	20,806 20,806
130	DEFENSE INFORMATION SYSTEMS AGENCY.....	1,883,190 1,823,190
240	DEFENSE INFORMATION SYSTEMS AGENCY - CYBER.....	582,639 592,639
150	DEFENSE LEGAL SERVICES AGENCY.....	37,637 37,637
160	DEFENSE LOGISTICS AGENCY.....	382,084 402,948
170	DEFENSE MEDIA ACTIVITY.....	196,997 205,997

51A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
180 DEFENSE POW /MISSING PERSONS OFFICE.....	129,225	154,225
190 DEFENSE SECURITY COOPERATION AGENCY.....	598,559	656,140
200 DEFENSE SECURITY SERVICE.....	949,008	949,008
340 DEFENSE SECURITY SERVICE - CYBER.....	9,577	9,577
220 DEFENSE TECHNOLOGY SECURITY AGENCY.....	38,432	38,432
230 DEFENSE THREAT REDUCTION AGENCY.....	591,780	591,780
400 DEFENSE THREAT REDUCTION AGENCY - CYBER.....	24,635	24,635
250 DEPARTMENT OF DEFENSE EDUCATION ACTIVITY.....	2,941,429	3,016,429
280 OFFICE OF ECONOMIC ADJUSTMENT.....	40,272	214,272
290 OFFICE OF THE SECRETARY OF DEFENSE.....	1,540,446	1,506,196
420 MISSILE DEFENSE AGENCY.....	505,858	577,535
470 OFFICE OF THE SECRETARY OF DEFENSE - CYBER.....	51,630	51,630
480 SPACE DEVELOPMENT AGENCY.....	48,166	48,166
310 WASHINGTON HEADQUARTERS SERVICES.....	340,291	330,291
OTHER PROGRAMS.....	17,348,749	17,291,045
TOTAL, BUDGET ACTIVITY 4.....	31,210,685	31,795,307
ATOMIC VETERANS SERVICE MEDAL	---	4,000
PROGRAM INCREASE: VIETNAM DIOXIN REMEDIATION.....	---	15,000
P.L. 115-68 IMPLEMENTATION.....	---	1,500
UNDISTRIBUTED REDUCTION - EXCESS TO NEED - NON NIP....	---	-150,032
TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE.....	38,649,079	39,048,990

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1PL1 JOINT CHIEFS OF STAFF	439,111	419,111
Insufficient justification		-20,000
SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT		
1PL6 ACTIVITIES	1,069,971	1,060,775
SOCOM requested realignment from 1PLR for civilian personnel costs		5,485
SOCOM requested realignment to 1PLR for MIP civilian personnel		-1,638
Classified adjustment		-5,500
SOCOM requested realignment from 1PLR for MISO activities		-7,543
1PLU SPECIAL OPERATIONS COMMAND INTELLIGENCE	561,907	555,077
SOCOM requested realignment from 1PLR for civilian personnel costs		8,445
SOCOM requested realignment from IPL6 for MIP civilian personnel costs		1,638
SOF Organic ISR excess to need		-8,100
DOMEX insufficient budget justification		-6,000
Excess to need - classified adjustment		-2,000
Program increase - classified adjustment		2,044
Repricing data scientist contractor FTEs		-1,865
Overestimation of SOCRATES licensing costs		-992
1PL7 SPECIAL OPERATIONS COMMAND MAINTENANCE	685,097	720,682
Dry Combat Submersible excess to need		-672
Program increase - 137th SOW MC-12 capability		49,000
Overestimation of CCM sustainment requirements		-1,778
Unjustified CCA growth		-776
FSOV - program decrease unaccounted for		-2,189
Insufficient budget justification		-8,000
SPECIAL OPERATIONS COMMAND		
1PLM MANAGEMENT/OPERATIONAL HEADQUARTERS	158,971	165,668
SOCOM requested realignment from 1PLR for civilian personnel costs		7,767
Overestimation of civilian personnel costs		-1,070
1PLV SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	1,062,748	1,043,604
SOCOM requested realignment from 1PLR for civilian personnel costs		7,191
Dry Combat Submersible excess to need		-891
RAA/VAK excess to need		-8,878
Program increase - Identity Management		10,000
One-time base support decreases not properly accounted for		-3,000
Windows 10 - program decrease unaccounted for		-22,400
SIPR OPP licenses - program decrease unaccounted for		-2,550
Overestimation of civilian personnel costs		-1,116
Program increase - demonstration project for contractors employing persons with disabilities to manufacture mechanical tourniquets		2,500

510

O-1	Budget Request	Final Bill
1PLR SPECIAL OPERATIONS COMMAND THEATER FORCES	2,598,385	2,555,527
Program increase - Preservation of Force and Family		2,000
Overestimation of flying hours		-14,737
Overestimation of A/MH-6M cost per flying hour rate		-6,176
Overestimation of civilian personnel costs		-2,033
SOCOM requested realignment to 1PL6 for civilian personnel costs		-5,485
SOCOM requested realignment to 1PLU for civilian personnel costs		-8,445
SOCOM requested realignment to 1PLM for civilian personnel costs		-7,767
SOCOM requested realignment to 1PLV for civilian personnel costs		-7,191
SOCOM requested realignment to 3EV8 for civilian personnel costs		-567
SOCOM requested realignment from 1PL6 for MISO activities		7,543
3EV8 SPECIAL OPERATIONS COMMAND	33,301	33,868
SOCOM requested realignment from 1PLR for civilian personnel costs		567
4GT3 CIVIL MILITARY PROGRAMS	147,993	281,167
Program increase - National Guard Youth Challenge		75,122
Program increase - Starbase		41,167
Program increase - Innovative Readiness Training		16,885
4GT6 DEFENSE CONTRACT AUDIT AGENCY	604,835	608,835
Program increase - restore defense-wide review reductions		19,000
Program decrease unaccounted for		-15,000
4GTO DEFENSE CONTRACT MANAGEMENT AGENCY	1,370,681	1,412,681
Program increase - restore defense-wide review reductions		42,000
4GT8 DEFENSE HUMAN RESOURCES ACTIVITY	799,952	924,232
Insufficient justification		-20,000
Program increase - Defense Language and National Security Education Office - restore defense-wide review reductions		30,000
Program increase - Language Flagship program		6,000
Program increase - Federal Voting Assistance Program - restore defense-wide review reductions		2,280
Program increases - Diversity Management Operations Program - restore defense-wide review reductions		6,000
Program increase - Defense Equal Opportunity Management Insititue Workforce Recruitment Program - restore defense-wide review reductions		2,000
Program increase - Special Victims' Counsel		46,000
Program increase - Defense Suicide Prevention Office		3,000
Program increase - Sexual Assault Prevention and Response Office		7,500
Program increase - Defense Language Training Centers		15,000
Program increase - demonstration project for contractors employing persons with disabilities		2,500
Program increase - suicide prevention with focus on rural, remote, isolated and OCONUS installations		2,000
Program increase - Beyond Yellow Ribbon		22,000

O-1	Budget Request	Final Bill
4GT9 DEFENSE INFORMATION SYSTEMS AGENCY	1,883,190	1,823,190
Unjustified growth		-60,000
4GU9 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER	582,639	592,639
Program increase - Comply to Connect		10,000
4GTB DEFENSE LOGISTICS AGENCY	382,084	402,948
Program increase - Procurement Technical Assistance Program		22,364
Program increase - maternity uniform pilot program		10,000
Program increase - homeless blankets program under P.L. 100-77		3,500
Unjustified growth		-15,000
ES18 DEFENSE MEDIA ACTIVITY	196,997	205,997
Program increase - Stars and Stripes restoration		9,000
4GTC DEFENSE PERSONNEL ACCOUNTING AGENCY	129,225	154,225
Program increase - restore defense-wide review reduction		20,000
Program increase		5,000
4GTD DEFENSE SECURITY COOPERATION AGENCY	598,559	656,140
Transfer from National Defense Strategy Implementation Account to Combating Terrorism and Irregular Warfare Fellowship Program		-24,723
Transfer to Combating Terrorism and Irregular Warfare Fellowship Program from National Defense Strategy Implementation Account		24,723
Program decrease - National Defense Strategy Implementation Account Professional Military Education Programs		-3000
Program increase - International Security Cooperation Programs with countries in SOUTHCOM		46,156
Program increase - International Security Cooperation Programs women's programs		3,000
Program increase - Regional Centers		3,925
Transfer from DSCA Headquarters to Claims Litigation Support		-3,636
Transfer to Claims Litigation Support from DSCA Headquarters		3,636
Unjustified growth - Institute for Security Governance		-15,000
Program increase - International Security Cooperation Programs - INDOPACOM - pilot program to improve cyber cooperation		2,500
Program increase - Irregular Warfare Functional Center		10,000
Program increase - Arctic Regional Center		10,000
4GTJ DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	2,941,429	3,016,429
Program increase - World Language grants		15,000
Program increase - Impact Aid		50,000
Program increase - Impact Aid for children with disabilities		20,000
Unjustified growth		-10,000

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O-1	Budget Request	Final Bill
4GTM OFFICE OF ECONOMIC ADJUSTMENT	40,272	214,272
Program increase - restore defense-wide review reductions		20,000
Program increase - Defense Community Infrastructure Program		60,000
Program increase - Guam Public Health Laboratory		19,000
Program increase - Noise Mitigation Community Partnership		50,000
Program increase - Defense Manufacturing Communities		25,000
4GTN OFFICE OF THE SECRETARY OF DEFENSE	1,540,446	1,506,196
Excess personnel increase - Office of Cost Assessment & Program Evaluation		-3,000
Excess personnel increase - Office of the Chief Management Officer		-11,000
Excess personnel increase - Office of the Undersecretary for Acquisition and Sustainment		-3,000
Excess personnel increase - Office of the Undersecretary for Research and Engineering		-2,000
Excess personnel increase - Office of the Undersecretary for Policy		-3,500
Program increase - Readiness Environmental Protection Initiative		30,000
Program increase - CDC water contamination study and assessment		15,000
Program increase - JASON Scientific Advisory Group		3,000
Program increase - National Security Commission on Artificial Intelligence		2,500
Program increase - DASD Environment civilian growth		2,000
Program increase - Information Assurance Scholarship Program		12,000
Program increase - Office of the Information Officer Digital Persona Protection Initiative		1,000
Unjustified growth		-80,000
Program increase - interstate compacts for licensure and credentialing		2,750
011A MISSILE DEFENSE AGENCY	505,858	577,535
GMD unjustified growth		-8,323
Program increase - AN/TPY-2 spares		80,000
4GTQ WASHINGTON HEADQUARTERS SERVICES	340,291	330,291
Insufficient justification		-10,000
999 OTHER PROGRAMS	17,348,749	17,291,045
Classified programs		-57,704
ATOMIC VETERANS SERVICE MEDAL		4,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED - NON NIP		-150,032
VIETNAM DIOXIN REMEDIATION		15,000
P.L. 115-68 IMPLEMENTATION		1,500

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DEFENSE POW/MIA ACCOUNTING AGENCY

The agreement supports the significant remains recovery goals outlined in the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111–84) and commends the Defense POW/MIA Accounting Agency for undertaking partnership arrangements with Carnegie R1 research universities to more effectively account for missing personnel and ensure families receive more timely information. The Director of the Defense POW/MIA Accounting Agency is directed to brief the House and Senate Appropriations Committees not later than 60 days after the enactment of this Act on plans for expanding these partnership arrangements into a systematic research and recovery process, through partnerships with Carnegie R1 research universities, focusing on prioritized World War II accounting efforts.

ENHANCING THE CAPABILITY OF MILITARY CRIMINAL INVESTIGATIVE ORGANIZATIONS TO PREVENT AND COMBAT CHILD SEXUAL EXPLOITATION

A designee of the Secretary of Defense is directed to brief the House and Senate Appropriations Committees, not later than 30 days after the enactment of this Act, an update on the initiative established under Section 550D of the National Defense Authorization Act for Fiscal Year 2020 (Public Law 116-92). The briefing shall also address opportunities within the following subject matters: establishing cooperative agreements and co-training with the relevant federal, state, local, and other law enforcement agencies; integrating child protective services and organizations into the initiative; and implementing recommendations made in the Government Accountability

Office's report titled "Increased Guidance and Collaboration Needed to Improve DoD's Tracking and Response to Child Abuse" (GAO-20-110).

SEXUAL ASSAULT PREVENTION PLAN OF ACTION

The agreement recommends an additional \$7,500,000 for the Sexual Assault Prevention and Response Office for continued implementation of the Prevention Plan of Action and to fund prevention efforts throughout the Services. The Director of the Sexual Assault Prevention and Response Office is directed to brief the House and Senate Appropriations Committees on its spend plan for the \$7,500,000 not later than 90 days after the enactment of this Act.

DEFENSE LANGUAGE AND NATIONAL SECURITY EDUCATION OFFICE

The agreement designates the funding included in the fiscal year 2021 President's budget request for the Language Training Centers as a congressional special interest item and directs that the funding profile for the Language Training Centers in total for the prior year, current year, and budget year be included in the Performance Criteria section of the Defense Human Resources Activity OP-5 budget exhibit in future budget submissions.

FEASIBILITY OF LANGUAGE AND CULTURAL COMPETENCY TRAINING FOR STATE PARTNERSHIP PROGRAM

The Secretary of Defense is directed to perform a feasibility study for a language skills and cultural competency pilot program through existing Defense Language and

National Security Education Office contracts to benefit the State Partnership Program between National Guard units and partner governments. The pilot should look at multiple partnerships to provide insight into program design, curriculum, and utilization of accredited universities local to National Guard units to improve State Partnership Program interactions.

SERVICE-PROVIDED SUPPORT AND ENABLING CAPABILITIES TO UNITED STATES SPECIAL
OPERATIONS FORCES

The agreement directs the Service Secretaries and the Secretary of Defense on behalf of the defense agencies to include with the fiscal year 2022 budget submission and each subsequent year thereafter, a consolidated budget justification display showing Service-common support and enabling capabilities contributed from each of the military Services and defense agencies to special operations forces. The report shall include a detailed accounting of the resources allocated by each Service or defense agency at the appropriation and line item level to provide combat support, combat service support, training, base operating support, pay and allowances, and enabling capabilities or other common services and support for special operations forces. The exhibit shall also include an identification of any changes in the level or type of support in the current fiscal year when compared to the preceding year.

THEATER SPECIAL OPERATIONS COMMAND ACTIVITIES

The agreement directs the Assistant Secretary of Defense (Special Operations/Low Intensity Conflict), in coordination with the Commander of United States Special Operations Command, the Service Secretaries, and the Chairman of the Joint Chiefs of

Staff, to provide a report to the congressional defense committees on the activities of Theater Special Operations Commands (TSOCs). The report shall be provided not later than 15 days after submission of the fiscal year 2022 budget request and include a detailed accounting of activities performed by the TSOCs in the preceding year, current fiscal year, and current budget request submission at the budget line item level of detail. The report shall include a detailed accounting of resources allocated by the military Services, United States Special Operations Command, and the combatant commands.

MILITARY INFORMATION SUPPORT OPERATIONS

The agreement directs the Assistant Secretary of Defense (Special Operations/Low Intensity Conflict) to submit a report for military information support operations (MISO) activities for the individual geographic combatant commands justified by the main pillars of the National Defense Strategy to the House and Senate Appropriations Committees not later than 15 days upon submission of the fiscal year 2022 budget request and annually thereafter. The report shall include spend plans identifying the requested and enacted funding levels for both voice and internet activities and how those activities are coordinated with the Intelligence Community and the Department of State. The enacted levels will serve as the baseline for reprogramming in accordance with section 8007 of this Act. Furthermore, the agreement directs the Assistant Secretary of Defense (Special Operations/Low Intensity Conflict) to submit to the congressional defense committees, not later than 90 days after the end of the fiscal year, an annual report that provides details on each combatant commands' MISO activities by activity name, description, goal or objective, target audience, dissemination means, executed funds, and assessments of their effectiveness. Additional details for the report are included in the classified annex accompanying this Act.

FORCE DEPLOYMENT NOTIFICATIONS AND QUARTERLY REPORT

The agreement directs that not later than five days after a significant deployment or redeployment of military personnel to a location outside the United States, the Secretary of Defense shall submit to the congressional defense committees a notification of the deployment, including the units and number of personnel deployed or redeployed and the location of the deployment. In addition, not later than 45 days after the enactment of this Act and quarterly thereafter, the Secretary of Defense shall submit to the congressional defense committees a report on the deployment of armed forces by each geographic combatant command. The report shall include the number of servicemembers, civilian employees, and contract personnel deployed, as well as the country and named operation, if applicable, to which such personnel are assigned.

BASE NOTIFICATION

The agreement directs that not later than 15 days after the date on which any foreign base that involves the stationing or operations of United States military personnel, including a temporary base, permanent base, or base owned and operated by a foreign country, is opened or closed, the Secretary of Defense shall notify the congressional defense committees in writing. The notification shall include the base location, dates of opening or closure, and any associated personnel changes, costs, or savings.

SECURITY FORCE ASSISTANCE BRIGADE QUARTERLY REPORT

The Secretary of Defense is directed to submit a report to the congressional defense committees, not later than 45 days after the enactment of this Act and quarterly

thereafter, on deployments of Army security force assistance brigades to foreign countries to provide training or equipment to their security forces. The report shall include a description of each United States Army brigade and number of individuals deployed; the education and training provided to the brigade; a description of the amount, type, and purpose of the training or equipment provided; the authority under which the program was conducted; the recipient foreign country and the security forces; the timeline, cost, and the source of funds; arrangements made for the sustainment of the program; any prior assistance provided by a security force assistance brigade; and what was accomplished and how the training and equipment fits into the overall security cooperation goals of the country.

NOISE MITIGATION COMMUNITIES PARTNERSHIP

The agreement includes additional language to address the effects that jet noise has on communities. The Secretary of Defense is directed to continue to provide the reports required under this heading in House Report 116-453. The Federal Aviation Administration is the primary Federal agency for noise mitigation support to local communities to plan for and respond to commercial-aircraft noise. The agreement expands the interaction between the Department of Defense and the Department of Transportation to ensure that assets of each individual program of both agencies work to alleviate the effects of noise on the communities as expeditiously as possible.

The agreement recognizes when military bases experience a change or expansion of mission, the rapid adjustment of noise contours is faster than local communities and existing land use planning and mitigation efforts can adjust. Therefore, the agreement provides \$50,000,000 to the Department of Defense Office of Economic Adjustment for assisting communities in adjusting their noise mitigation plans to be available for projects

within a one mile or a 65 decibel Day-Night Average Sound Level contour as determined by sound studies, such as an environmental impact statement.

DEFENSE SECURITY COOPERATION AGENCY PROGRAMS

The agreement does not include funding for a proposed National Defense Strategy Implementation Account. Instead, the agreement provides separate funding for International Security Cooperation Programs and the Combating Terrorism and Irregular Warfare Fellowship Program. The agreement provides \$55,840,000 above the budget request for countries in the Africa Command area of responsibility and \$46,156,000 above the budget request for countries in the Southern Command area of responsibility for International Security Cooperation Programs. The agreement directs that such amounts are in addition to requested program levels and shall only be obligated for additional programs within each respective combatant command.

Prior to the initial obligation of funds made available in titles II and IX of this Act for the Defense Security Cooperation Agency (DSCA), the Director of DSCA shall submit a spend plan for each program listed in the budget justification documents for DSCA to the House and Senate Appropriations Committees. For funds planned for International Security Cooperation Programs, the Director shall, in coordination with the commanders of each geographic combatant command, include amounts planned for each combatant command and country, and a comparison to such amounts provided in the prior three fiscal years. Amounts in the spend plan shall only reflect amounts requested in the fiscal year 2021 budget justification materials and modified by the fiscal year 2021 appropriations adjustments in the table under this heading for DSCA. Prior to obligation of funds that would deviate from the plan, the Director shall provide an updated plan to such Committees outlining any changes between each program listed in the budget justification documents or between combatant commands or countries, and a justification

for the changes. Concurrent with the submission of the fiscal year 2022 budget request, the Director shall also provide to such Committees a breakout of the request for International Security Cooperation Programs by combatant command and country.

This language replaces the funding levels specified in House Report 116-453 under the heading “Defense Security Cooperation Programs”. The Secretary of Defense shall follow the other directives under this heading in House Report 116-453.

EL MOZOTE MASSACRE

Not later than 60 days after the date of enactment of this Act, the Secretary of Defense, in coordination with the Secretary of State, shall provide all relevant information and documents to the appropriate judicial authorities in El Salvador investigating the December 1981 massacre in El Mozote. Additionally, not later than 30 days following such action, the Secretary of Defense shall submit a report to the Committees on Appropriations of the House of Representatives and the Senate describing the information and documents provided and the authorities that received them.

RENAMING INSTITUTIONS

The agreement does not adopt the language under the heading “Renaming Institutions” in House Report 116-453.

RESTRICTIONS ON TRANSFER OF ITEMS TO LAW ENFORCEMENT

In lieu of Section 8132 of the House bill, the agreement supports section 1053 of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 and directs the Department to provide a report detailing its compliance with such section not later than 120 days after the date of enactment of this Act and quarterly thereafter.

OPERATION AND MAINTENANCE, ARMY RESERVE

The agreement provides \$2,887,898,000 for Operation and Maintenance, Army Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~

insert 60A-B

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, ARMY RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
LAND FORCES		
10	MODULAR SUPPORT BRIGADES.....	10,784 9,784
20	ECHELONS ABOVE BRIGADES.....	530,425 530,425
30	THEATER LEVEL ASSETS.....	123,737 122,737
40	LAND FORCES OPERATIONS SUPPORT.....	589,582 569,582
50	AVIATION ASSETS.....	89,332 87,832
LAND FORCES READINESS		
60	FORCES READINESS OPERATIONS SUPPORT.....	387,545 387,545
70	LAND FORCES SYSTEM READINESS.....	97,569 97,569
80	DEPOT MAINTENANCE.....	43,148 43,148
LAND FORCES READINESS SUPPORT		
90	BASE OPERATIONS SUPPORT.....	587,098 587,098
100	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	327,180 337,180
110	MANAGEMENT AND OPERATIONS HEADQUARTERS.....	28,783 28,783
120	CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	2,745 2,745
130	CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,438 7,438
	TOTAL, BUDGET ACTIVITY 1.....	2,825,366 2,811,866
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
120	SERVICEWIDE TRANSPORTATION.....	15,530 15,530
130	ADMINISTRATION.....	17,761 17,761
140	SERVICEWIDE COMMUNICATIONS.....	14,256 14,256
150	PERSONNEL/FINANCIAL ADMINISTRATION	6,564 6,564
160	RECRUITING AND ADVERTISING.....	55,240 55,240
	TOTAL, BUDGET ACTIVITY 4.....	109,351 109,351
	UNJUSTIFIED GROWTH.....	--- -17,000
	HISTORICAL UNOBLIGATION.....	--- -1,500
	UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	--- -14,819
	TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE.....	2,934,717 2,887,898

60A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
112 MODULAR SUPPORT BRIGADES	10,784	9,784
Unjustified growth		-1,000
114 THEATER LEVEL ASSETS	123,737	122,737
Unjustified growth		-1,000
115 LAND FORCES OPERATIONS SUPPORT	589,582	569,582
Unjustified growth		-20,000
116 AVIATION ASSETS	89,332	87,832
Unjustified growth		-1,500
132 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	327,180	337,180
Program increase		10,000
HISTORICAL UNOBLIGATION		-1,500
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-14,819
UNJUSTIFIED GROWTH		-17,000

(608)

OPERATION AND MAINTENANCE, NAVY RESERVE

The agreement provides \$1,115,150,000 for Operation and Maintenance, Navy Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 61A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, NAVY RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
10	RESERVE AIR OPERATIONS MISSION AND OTHER FLIGHT OPERATIONS.....	635,070 625,070
20	INTERMEDIATE MAINTENANCE.....	8,713 8,713
30	AIRCRAFT DEPOT MAINTENANCE.....	105,088 105,088
40	AIRCRAFT DEPOT OPERATIONS SUPPORT.....	398 398
50	AVIATION LOGISTICS.....	27,284 27,284
RESERVE SHIP OPERATIONS		
RESERVE COMBAT OPERATIONS SUPPORT		
70	COMBAT COMMUNICATIONS.....	17,894 17,894
80	COMBAT SUPPORT FORCES.....	132,862 131,362
90	CYBERSPACE ACTIVITIES.....	453 453
RESERVE WEAPONS SUPPORT		
100	ENTERPRISE INFORMATION TECHNOLOGY.....	26,073 26,073
BASE OPERATING SUPPORT		
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	48,762 53,762
120	BASE OPERATING SUPPORT.....	103,580 103,580

	TOTAL, BUDGET ACTIVITY 1.....	1,106,177 1,099,677
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
130	ADMINISTRATION.....	1,927 1,927
140	MILITARY MANPOWER & PERSONNEL.....	15,895 15,895
160	ACQUISITION AND PROGRAM MANAGEMENT.....	3,047 3,047

	TOTAL, BUDGET ACTIVITY 4.....	20,869 20,869
	OVERESTIMATION OF CIVILIAN FTE TARGETS.....	--- -4,000
	UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	--- -1,396
=====		
	TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE.....	1,127,046 1,115,150
=====		

(61A)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A MISSION AND OTHER FLIGHT OPERATIONS	635,070	625,070
Insufficient justification		-10,000
1C6C COMBAT SUPPORT FORCES	132,862	131,362
Unjustified increase		-1,500
BSMR FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	48,762	53,762
Program increase		5,000
OVERESTIMATION OF CIVILIAN FTE TARGETS		-4,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-1,396

(61B)

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

The agreement provides \$283,494,000 for Operation and Maintenance, Marine Corps Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 62A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
EXPEDITIONARY FORCES		
10	OPERATING FORCES.....	104,616 104,616
20	DEPOT MAINTENANCE.....	17,053 17,053
30	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	41,412 43,662
40	BASE OPERATING SUPPORT.....	107,773 107,773
	TOTAL, BUDGET ACTIVITY 1.....	270,854 273,104

BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
60	ADMINISTRATION.....	13,802 13,802
	TOTAL, BUDGET ACTIVITY 4.....	13,802 13,802
	OVERESTIMATION OF CIVILIAN FTE TARGETS.....	--- -3,000
	UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	--- -412
	TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE	284,656 283,494
	=====	=====

62A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
BSM1 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	41,412	43,662
Program increase		2,250
OVERESTIMATION OF CIVILIAN FTE TARGETS		-3,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-412

(62B)

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

The agreement provides \$3,268,461,000 for Operation and Maintenance, Air Force Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 63A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, AIR FORCE RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
10		
AIR OPERATIONS		
10	1,782,016	1,762,016
PRIMARY COMBAT FORCES.....		
20	215,209	210,209
MISSION SUPPORT OPERATIONS.....		
30	453,896	453,896
DEPOT MAINTENANCE.....		
40	103,414	108,414
FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..		
70	2,259	2,259
CYBERSPACE ACTIVITIES.....		
50	224,977	224,977
CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....		
60	452,468	448,468
BASE OPERATING SUPPORT.....		
	-----	-----
TOTAL, BUDGET ACTIVITY 1.....	3,234,239	3,210,239
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
70	74,258	74,258
ADMINISTRATION.....		
80	23,121	23,121
RECRUITING AND ADVERTISING.....		
90	12,006	12,006
MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....		
100	6,165	6,165
OTHER PERSONNEL SUPPORT.....		
110	495	495
AUDIOVISUAL.....		
	-----	-----
TOTAL, BUDGET ACTIVITY 4.....	116,045	116,045
HISTORICAL UNOBLIGATION.....		
	---	-3,000
OVERESTIMATION OF CIVILIAN FTE TARGETS.....		
	---	-40,000
UNJUSTIFIED GROWTH.....		
	---	-15,000
AUTHORIZATION ADJUSTMENT: RESTORE A-10.....		
	---	15,000
AUTHORIZATION ADJUSTMENT: RESTORE KC-135.....		
	---	5,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....		
	---	-19,823
	=====	=====
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE.	3,350,284	3,268,461
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
11A PRIMARY COMBAT FORCES	1,782,016	1,762,016
Insufficient justification		-20,000
11G MISSION SUPPORT OPERATIONS	215,209	210,209
Insufficient justification		-5,000
11R FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	103,414	108,414
Program increase		5,000
11Z BASE OPERATING SUPPORT	452,468	448,468
Insufficient justification		-4,000
AUTHORIZATION ADJUSTMENT - RESTORE A-10		15,000
AUTHORIZATION ADJUSTMENT - RESTORE KC-135		5,000
HISTORICAL UNOBLIGATION		-3,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-19,823
OVERESTIMATION OF CIVILIAN FTE TARGETS		-40,000
UNJUSTIFIED GROWTH		-15,000

(638)

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

The agreement provides \$7,350,837,000 for Operation and Maintenance, Army National Guard, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 64A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD		
BUDGET ACTIVITY 1: OPERATING FORCES		
LAND FORCES		
10	MANEUVER UNITS.....	769,449 781,449
20	MODULAR SUPPORT BRIGADES.....	204,604 204,604
30	ECHELONS ABOVE BRIGADE.....	812,072 812,072
40	THEATER LEVEL ASSETS.....	103,650 97,650
50	LAND FORCES OPERATIONS SUPPORT.....	32,485 32,485
60	AVIATION ASSETS.....	1,011,142 995,142
LAND FORCES READINESS		
70	FORCE READINESS OPERATIONS SUPPORT.....	712,881 716,915
80	LAND FORCES SYSTEMS READINESS.....	47,732 47,732
90	LAND FORCES DEPOT MAINTENANCE.....	265,408 263,908
LAND FORCES READINESS SUPPORT		
100	BASE OPERATIONS SUPPORT.....	1,106,704 1,124,704
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	876,032 901,032
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	1,050,257 1,050,257
130	CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	7,998 8,998
140	CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,756 7,756
	TOTAL, BUDGET ACTIVITY 1.....	7,008,170 7,044,704
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
130	SERVICEWIDE TRANSPORTATION.....	8,018 8,018
140	ADMINISTRATION.....	74,309 78,309
150	SERVICEWIDE COMMUNICATIONS.....	66,140 66,140
160	MANPOWER MANAGEMENT.....	9,087 9,087
170	RECRUITING AND ADVERTISING.....	251,714 248,214

64A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
180 REAL ESTATE MANAGEMENT	2,576	2,576
TOTAL, BUDGET ACTIVITY 4	411,844	412,344
HISTORICAL UNOBLIGATION	---	-5,000
UNJUSTIFIED GROWTH	---	-60,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED	---	-41,211
	=====	=====
TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.	7,420,014	7,350,837
	=====	=====

64B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
111 MANEUVER UNITS	769,449	781,449
Program increase - Exercise NORTHERN STRIKE		12,000
114 THEATER LEVEL ASSETS	103,650	97,650
Unjustified growth		-6,000
116 AVIATION ASSETS	1,011,142	995,142
Unjustified growth		-16,000
121 FORCE READINESS OPERATIONS SUPPORT	712,881	716,915
Program increase - advanced trauma training program		534
Program increase - corrosion control		2,000
Program increase - wildfire training		1,500
123 LAND FORCES DEPOT MAINTENANCE	265,408	263,908
Insufficient justification		-1,500
131 BASE OPERATIONS SUPPORT	1,106,704	1,124,704
Program increase - PFAS remediation		20,000
Remove one-time fiscal year 2020 cost		-5,000
Program increase - warrior resiliency and fitness		3,000
132 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	876,032	901,032
Program increase		25,000
151 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS	7,998	8,998
Program increase - cyber security training center		1,000
431 ADMINISTRATION	74,309	78,309
Program increase - State Partnership Program		3,500
Program increase - State Partnership virtual language		500
434 OTHER PERSONNEL SUPPORT	251,714	248,214
Remove one-time fiscal year 2020 cost		-3,500
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-41,211
HISTORICAL UNOBLIGATION		-5,000
UNJUSTIFIED GROWTH		-60,000

64C

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

The agreement provides \$6,785,853,000 for Operation and Maintenance, Air National Guard, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 65A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, AIR NATIONAL GUARD		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10	AIRCRAFT OPERATIONS.....	2,476,205 2,468,205
20	MISSION SUPPORT OPERATIONS.....	611,325 630,697
30	DEPOT MAINTENANCE.....	1,138,919 1,128,919
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	323,605 348,605
80	CYBERSPACE ACTIVITIES.....	16,380 16,380
80	CYBERSPACE SUSTAINMENT.....	27,028 27,028
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	1,100,828 1,100,828
60	BASE OPERATING SUPPORT.....	962,438 977,438
	TOTAL, BUDGET ACTIVITY 1.....	6,656,728 6,698,100
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
SERVICEWIDE ACTIVITIES		
70	ADMINISTRATION.....	48,218 48,218
80	RECRUITING AND ADVERTISING.....	48,696 45,696
	TOTAL, BUDGET ACTIVITY 4.....	96,914 93,914
	UNJUSTIFIED GROWTH.....	--- -40,000
	AUTHORIZATION ADJUSTMENT: RESTORE A-10.....	--- 70,000
	HISTORICAL UNOBLIGATION.....	--- -10,000
	UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	--- -26,161
	TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD..	6,753,642 6,785,853

65A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

O-1	Budget Request	Final Bill
11F AIRCRAFT OPERATIONS	2,476,205	2,468,205
Insufficient justification		-8,000
11G MISSION SUPPORT OPERATIONS	611,325	630,697
Program increase - trauma training program		1,800
Program increase - State Partnership Program		1,500
Program increase - State Partnership virtual language		500
Program increase - Joint Terminal Attack Controller		8,000
Program increase - tuition assistance		4,000
Program increase - wildfire training		572
Program increase - warrior resiliency and fitness		3,000
11M DEPOT MAINTENANCE	1,138,919	1,128,919
Unjustified increase		-10,000
11R FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	323,605	348,605
Program increase		25,000
11Z BASE OPERATING SUPPORT	962,438	977,438
Program increase - PFAS remediation		15,000
42J RECRUITING AND ADVERTISING	48,696	45,696
Insufficient justification		-3,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-26,161
HISTORICAL UNOBLIGATION		-10,000
UNJUSTIFIED GROWTH		-40,000
AUTHORIZATION ADJUSTMENT - RESTORE A-10		70,000

(658)

UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES

The agreement provides \$15,211,000 for the United States Court of Appeals for the Armed Forces.

ENVIRONMENTAL RESTORATION, ARMY

The agreement provides \$264,285,000, an increase of \$56,767,000 above the budget request, for Environmental Restoration, Army.

ENVIRONMENTAL RESTORATION, NAVY

The agreement provides \$421,250,000, an increase of \$85,318,000 above the budget request, for Environmental Restoration, Navy. Specifically, \$68,318,000 is provided as a general program increase and \$17,000,000 is provided to address costs associated with remediating contamination caused by perfluorinated chemicals.

ENVIRONMENTAL RESTORATION, AIR FORCE

The agreement provides \$509,250,000, an increase of \$205,324,000 above the budget request, for Environmental Restoration, Air Force.

ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

The agreement provides \$19,952,000, an increase of \$10,847,000 above the budget request, for Environmental Restoration, Defense-Wide.

ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

The agreement provides \$288,750,000, an increase of \$72,163,000 above the budget request, for Environmental Restoration, Formerly Used Defense Sites.

OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

The agreement provides \$147,500,000 for Overseas Humanitarian, Disaster, and Civic Aid, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
FOREIGN DISASTER RELIEF	20,000	35,000
Program increase		15,000
HUMANITARIAN ASSISTANCE	74,900	90,000
Program increase		15,100
HUMANITARIAN MINE ACTION PROGRAM	15,000	22,500
Program increase		7,500
TOTAL, OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID	109,900	147,500

COOPERATIVE THREAT REDUCTION ACCOUNT

The agreement provides \$360,190,000 for the Cooperative Threat Reduction Account, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
Strategic Offensive Arms Elimination	2,924	2,924
Chemical Security and Elimination	11,806	11,806
Global Nuclear Security	20,152	35,852
Program increase - Global Nuclear Security		15,700
Biological Threat Reduction Program	127,396	225,396
Program increase - Biological Threat Reduction Program		98,000
Proliferation Prevention Program	52,064	60,064
Program increase - Proliferation Prevention Program		8,000
Other Assessments/Admin Costs	24,148	24,148
TOTAL, COOPERATIVE THREAT REDUCTION ACCOUNT	238,490	360,190

**DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT
ACCOUNT**

The agreement provides \$88,181,000 for the Department of Defense Acquisition Workforce Development Account, as follows:

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

	Budget Request	Final Bill
TRAINING AND DEVELOPMENT	55,386	85,386
Program increase - acquisition workforce training		30,000
RETENTION AND RECOGNITION	1,358	1,358
RECRUITING AND HIRING	1,437	1,437
TOTAL, DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT	58,181	88,181

FUNDING FOR THE DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE

The fiscal year 2021 President’s budget request proposes to transfer \$140,320,000 previously programmed in the Department of Defense Acquisition Workforce Development Account (DAWDA) to the Army, Navy, and Air Force operation and maintenance accounts for the acquisition workforce. These transfers are supported in this agreement, and the requirement to maintain visibility into funding for the acquisition workforce is addressed in the “Operation and Maintenance” section of this explanatory statement. In addition, the fiscal year 2021 President’s budget request includes \$58,181,000 in DAWDA. Support for the Department of Defense acquisition workforce

is reiterated, and an additional \$30,000,000 for DAWDA training and development is provided due to increased demands on the acquisition workforce.

It is expected that the Under Secretary of Defense (Comptroller), the Under Secretary of Defense (Acquisition and Sustainment), the Director, Cost Assessment and Program Evaluation, as well as the Service acquisition executives and Service financial managers and comptroller will continue to include clearly identified and appropriate funding requests for the Department of Defense acquisition workforce in DAWDA and the Services' operation and maintenance appropriation accounts.

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE REPORTING REQUIREMENTS

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

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT REPROGRAMMING GUIDANCE

The Secretary of Defense is directed to follow reprogramming guidance for the 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

The agreement provides \$136,532,968,000 in Title III, Procurement, as follows:

~~(INSERT PROCUREMENT SUMMARY TABLE)~~e

insert 72A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

SUMMARY		
ARMY		
AIRCRAFT.....	3,074,594	3,457,342
MISSILES.....	3,491,507	3,220,541
WEAPONS AND TRACKED COMBAT VEHICLES.....	3,696,740	3,611,887
AMMUNITION.....	2,777,716	2,790,140
OTHER.....	8,625,206	8,603,112
TOTAL, ARMY.....	21,665,763	21,683,022
NAVY		
AIRCRAFT.....	17,127,378	19,480,280
WEAPONS.....	4,884,995	4,477,773
AMMUNITION.....	883,602	792,023
SHIPS.....	19,902,757	23,268,880
OTHER.....	10,948,518	10,512,209
MARINE CORPS.....	2,903,976	2,648,375
TOTAL, NAVY.....	56,651,226	61,179,540
AIR FORCE		
AIRCRAFT.....	17,908,145	19,212,753
MISSILES.....	2,396,417	2,142,181
AMMUNITION.....	596,338	550,844
OTHER.....	23,695,720	23,441,648
TOTAL, AIR FORCE.....	44,596,620	45,347,426
SPACE FORCE		
SPACE PROGRAMS.....	2,446,064	2,310,994
TOTAL, SPACE FORCE.....	2,446,064	2,310,994
DEFENSE-WIDE		
DEFENSE-WIDE.....	5,324,487	5,837,347
DEFENSE PRODUCTION ACT PURCHASES.....	181,931	174,639
TOTAL PROCUREMENT.....	130,866,091	136,532,968
	=====	=====

72A

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

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense Appropriations bill for Fiscal Year 2008 (House Report 110-279). Specifically, the dollar threshold for reprogramming funds shall be \$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 the guidance specified in the explanatory statement accompanying the Department of Defense Appropriations Act, 2006. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. These thresholds are cumulative from the base for reprogramming value as modified by any adjustments. Therefore, if the combined value of transfers into or out of a procurement (P-1) or research, development, test and evaluation (R-1) line exceeds the identified threshold, the Secretary of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this statement.

FUNDING INCREASES

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

PROCUREMENT SPECIAL INTEREST ITEMS

Items for which additional funds have been recommended or items for which funding is specifically reduced as shown in the project level tables detailing recommended adjustments or in paragraphs using the phrase “only for” or “only to” in the 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 elsewhere in the explanatory statement.

BUDGETING FOR ADVANCE PROCUREMENT

Advance procurement (AP) appropriations are provided as an exception to the policy of full funding of end items. AP funding is, by policy, for procurement of long lead items when early procurement allows for production schedules to be maintained.

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

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

Therefore, the Under Secretary of Defense (Comptroller), in coordination with the Service acquisition executives, is directed to provide with the fiscal year 2022 President's budget request, and for each submission thereafter, for any program for which AP is requested, the following information to the congressional defense committees: a list of the long lead items to be procured and associated end item this material will be incorporated into, the quantity of each type of item, the unit cost of each type of item, the schedule for production of each of the items, an assessment of how much time and cost is saved by using advance procurement funding to buy the long lead items requested, and certification that the balance of the funds for end items is included in the budget submission.

ARSENAL SUSTAINMENT INITIATIVE

The agreement continues to support the Secretary 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 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 Secretary of the Army is encouraged 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 agreement 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 spare parts inventory of the Department of Defense, as required by Senate Report 114-63.

ARMY ORGANIC INDUSTRIAL BASE

The Secretary of the Army is directed to provide 45-day written notification to the congressional defense committees prior to 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, restoration of any lost capability to meet future organic wartime manufacturing needs.

AIRCRAFT PROCUREMENT, ARMY

The agreement provides \$3,457,342,000 for Aircraft Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 78A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL	

AIRCRAFT PROCUREMENT, ARMY			
AIRCRAFT			
FIXED WING			
1	UTILITY F/W CARGO AIRCRAFT.....	---	82,000
3	FUTURE UAS FAMILY.....	1,100	1,100
4	RQ-11 (RAVEN).....	20,851	16,551
ROTARY			
7	AH-64 APACHE BLOCK IIIA REMAN.....	792,027	792,027
8	AH-64 APACHE BLOCK IIIA REMAN (AP-CY).....	169,460	169,460
11	UH-60 BLACKHAWK (MYP).....	742,998	862,096
12	UH-60 BLACKHAWK (MYP) (AP-CY).....	87,427	87,427
13	UH-60 BLACKHAWK A AND L MODELS.....	172,797	165,197
14	CH-47 HELICOPTER.....	160,750	320,750
15	CH-47 HELICOPTER (AP-CY).....	18,372	47,372

	TOTAL, AIRCRAFT.....	2,165,782	2,543,980

MODIFICATION OF AIRCRAFT			
18	UNIVERSAL GROUND CONTROL EQUIPMENT.....	7,509	7,509
19	GRAY EAGLE MODS2.....	16,280	30,280
20	MULTI SENSOR ABN RECON (MIP).....	35,864	35,864
21	AH-64 MODS.....	118,316	99,816
22	CH-47 CARGO HELICOPTER MODS.....	15,548	15,548
23	GRCS SEMA MODS (MIP).....	2,947	2,947
24	ARL SEMA MODS (MIP).....	9,598	9,598
25	EMARSS SEMA MODS (MIP).....	2,452	2,452
26	UTILITY/CARGO AIRPLANE MODS.....	13,868	13,868
27	UTILITY HELICOPTER MODS.....	25,842	40,842
28	NETWORK AND MISSION PLAN.....	77,432	77,432
29	COMMS, NAV SURVEILLANCE.....	101,355	101,355
31	AVIATION ASSURED PNT.....	54,609	53,509
32	GATM ROLLUP.....	12,180	12,180
34	UAS MODS.....	4,204	4,204

	TOTAL, MODIFICATION OF AIRCRAFT.....	498,004	507,404

78A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

SUPPORT EQUIPMENT AND FACILITIES		
GROUND SUPPORT AVIONICS		
35	AIRCRAFT SURVIVABILITY EQUIPMENT.....	49,455 44,455
36	SURVIVABILITY CM.....	8,035 8,035
37	CMWS.....	10,567 10,567
38	COMMON INFRARED COUNTERMEASURES.....	237,467 234,117
OTHER SUPPORT		
39	AVIONICS SUPPORT EQUIPMENT.....	1,789 1,789
40	COMMON GROUND EQUIPMENT.....	17,584 17,584
41	AIRCREW INTEGRATED SYSTEMS.....	48,265 51,765
42	AIR TRAFFIC CONTROL.....	26,408 26,408
44	LAUNCHER, 2.75 ROCKET.....	2,256 2,256
45	LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE XM2....	8,982 8,982
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	410,808 405,958

	TOTAL, AIRCRAFT PROCUREMENT, ARMY.....	3,074,594 3,457,342
=====		

78B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 UTILITY F/W AIRCRAFT Program increase - EMARSS-E	0	82,000 82,000
4 RQ-11 (RAVEN) Spares acquisition strategy	20,851	16,551 -4,300
11 UH-60 BLACKHAWK M MODEL (MYP) Program increase - six HH-60M for the National Guard Excess fielding costs Program management growth	742,998	862,096 141,000 -17,702 -4,200
13 UH-60 BLACKHAWK L AND V MODELS UH-60V installation unit cost growth H-60V installations previously funded	172,797	165,197 -3,200 -4,400
14 CH-47 HELICOPTER Program increase - F Block II	160,750	320,750 160,000
15 CH-47 HELICOPTER (AP-CY) Program increase - F Block II	18,372	47,372 29,000
19 GRAY EAGLE MODS2 Program increase - link 16 communications upgrade for MQ-1C	16,280	30,280 14,000
21 AH-64 MODS Sensors cost growth	118,316	99,816 -18,500
27 UTILITY HELICOPTER MODS Program increase - enhanced ballistic protection system Program increase - tail rotor drive system	25,842	40,842 10,000 5,000
31 AVIATION ASSURED PNT Program management maintain level of effort	54,609	53,509 -1,100
35 AIRCRAFT SURVIVABILITY EQUIPMENT Costs previously funded	49,455	44,455 -5,000
38 COMMON INFRARED COUNTERMEASURES (CIRCM) Unit cost growth	237,467	234,117 -3,350
41 AIRCREW INTEGRATED SYSTEMS Airframe kit install excess growth Program increase - load stability systems	48,265	51,765 -2,000 5,500

780

CHINOOK HELICOPTER

The agreement fully funds the request of six MH-47G retrofits and includes one CH-47F war replacement aircraft. In addition, the agreement provides sufficient funding for the first five F Block II aircraft in fiscal year 2021, and advance procurement funding to enable long-lead materials for the second lot of five F Block II aircraft in fiscal year 2022. The Chinook is the only heavy lift cargo helicopter in the Army inventory for which the Army currently has no replacement plans. Further, the Chief of Staff of the Army certified the need for Block II capability less than three years ago and the Department of Defense Appropriations Act, 2020 outlined certain expectations for future CH-47F Block II funding.

The Army has embarked upon an ambitious modernization initiative which has been supported by Congress and the Army must make difficult decisions to resource its plan. However, Army heavy lift capability will continue to be an essential part of the National Defense Strategy and its emphasis on near-peer competitors. Furthermore, the capability gaps that led to the Block II research and development efforts exist today, and significantly delaying improved heavy lift upgrades will defer important capability that is currently needed.

Finally, the Army's decision to delay production of CH-47 Block II aircraft has resulted in significant overhead costs being shifted onto the MH-47G line, even though congressional support of F Block II remains evident. The Secretary of the Army is directed to provide quarterly reports, not later than 30 days after the end of each fiscal quarter, to the House and Senate Appropriations Committees outlining budget execution data for the CH-47 Helicopter and advance procurement budget lines, including detailed obligation and expenditure of all overhead costs.

MISSILE PROCUREMENT, ARMY

The agreement provides \$3,220,541,000 for Missile Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 80A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MISSILE PROCUREMENT, ARMY		
OTHER MISSILES		
SURFACE-TO-AIR MISSILE SYSTEM		
2	M-SHORAD - PROCUREMENT.....	378,654 358,987
3	MSE MISSILE.....	603,188 501,563
4	PRECISION STRIKE MISSILE (PRSM).....	49,941 49,941
5	INDIRECT FIRE PROTECTION CAPABILITY.....	106,261 62,461
AIR-TO-SURFACE MISSILE SYSTEM		
6	HELLFIRE SYS SUMMARY.....	91,225 91,225
7	JOINT AIR-TO-GROUND MSLs (JAGM).....	213,397 196,548
8	LONG RANGE PRECISION MUNITION.....	45,307 38,107
ANTI-TANK/ASSAULT MISSILE SYSTEM		
9	JAVELIN (AAWS-M) SYSTEM SUMMARY.....	190,325 181,325
10	TOW 2 SYSTEM SUMMARY.....	121,074 112,974
11	GUIDED MLRS ROCKET (GMLRS).....	850,157 785,982
12	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR).....	30,836 30,836
13	HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)....	41,226 46,276
	TOTAL, OTHER MISSILES.....	2,721,591 2,456,225

MODIFICATION OF MISSILES		
MODIFICATIONS		
16	PATRIOT MODS.....	278,050 278,050
17	ATACMS MODS.....	141,690 136,090
20	AVENGER MODS.....	13,942 13,942
21	ITAS/TOW MODS.....	5,666 5,666
22	MLRS MODS.....	310,419 310,419
23	HIMARS MODIFICATIONS.....	6,081 6,081
	TOTAL, MODIFICATION OF MISSILES.....	755,848 750,248

SPARES AND REPAIR PARTS		
24	SPARES AND REPAIR PARTS.....	5,090 5,090
SUPPORT EQUIPMENT AND FACILITIES		
25	AIR DEFENSE TARGETS.....	8,978 8,978
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	8,978 8,978

	TOTAL, MISSILE PROCUREMENT, ARMY.....	3,491,507 3,220,541
=====		

80A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 M-SHORAD - PROCUREMENT	378,654	358,987
Production costs previously funded		-4,067
Unit cost growth		-15,600
3 MSE MISSILE	603,188	501,563
MRT/ERT unit cost growth		-5,100
Obsolescence		-6,725
AUR unit cost growth		-89,800
5 INDIRECT FIRE PROTECTION CAPABILITY INC 2-I	106,261	62,461
Army identified excess		-40,500
Unit cost growth		-3,300
7 JOINT AIR-TO-GROUND MSLS (JAGM)	213,397	196,548
Contract delays		-16,849
8 LONG RANGE PRECISION MUNITION	45,307	38,107
Acquisition strategy		-7,200
9 JAVELIN (AAWS-M) SYSTEM SUMMARY	190,325	181,325
LWCLU schedule slips		-9,000
10 TOW 2 SYSTEM SUMMARY	121,074	112,974
Unit cost growth		-1,000
CAPS obsolescence concurrency		-2,350
LAT prior year carryover		-4,750
11 GUIDED MLRS ROCKET (GMLRS)	850,157	785,982
Excess tooling request		-5,000
GMLRS unit cost growth		-57,300
PVT forward financing		-1,875
13 HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)	41,226	46,276
Army requested transfer from OM,A line 121		10,000
Fielding costs insufficient justification		-1,000
Support costs insufficient justification		-3,950
17 ATACMS MODS	141,690	136,090
Unit cost growth		-5,600

80B

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

The agreement provides \$3,611,887,000 for Procurement of Weapons and Tracked Combat Vehicles, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 81A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY		
2	TRACKED COMBAT VEHICLES ARMORED MULTI PURPOSE VEHICLE (AMPV).....	192,971 63,000
4	MODIFICATION OF TRACKED COMBAT VEHICLES STRYKER UPGRADE.....	847,212 1,164,152
5	BRADLEY PROGRAM (MOD).....	493,109 277,259
6	M109 FOV MODIFICATIONS.....	26,893 26,893
7	PALADIN PIPM MOD IN SERVICE.....	435,825 463,425
9	ASSAULT BRIDGE (MOD).....	5,074 5,074
10	ASSAULT BREACHER VEHICLE.....	19,500 19,500
11	M88 FOV MODS.....	18,382 18,382
12	JOINT ASSAULT BRIDGE.....	72,178 ---
13	M1 ABRAMS TANK (MOD).....	392,013 375,107
14	ABRAMS UPGRADE PROGRAM.....	1,033,253 968,094
	-----	-----
	TOTAL, TRACKED COMBAT VEHICLES.....	3,536,410 3,380,886
15	WEAPONS AND OTHER COMBAT VEHICLES M240 MEDIUM MACHINE GUN (7.62MM).....	--- 12,500
16	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS.....	17,864 17,864
18	MORTAR SYSTEMS.....	10,288 10,288
19	XM320 GRENADE LAUNCHER MODULE (GLM).....	5,969 5,969
20	PRECISION SNIPER RIFLE.....	10,137 8,895
21	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM.....	999 999
22	CARBINE.....	7,411 5,411
23	NEXT GENERATION SQUAD WEAPON.....	35,822 35,822
24	COMMON REMOTELY OPERATED WEAPONS STATION.....	24,534 24,534
25	MODULAR HANDGUN SYSTEM.....	4,662 4,662
26	MOD OF WEAPONS AND OTHER COMBAT VEH MK-19 GRENADE MACHINE GUN MODS.....	6,444 6,444
27	M777 MODS.....	10,983 9,783
28	M4 CARBINE MODS.....	4,824 4,824
31	M240 MEDIUM MACHINE GUN MODS.....	6,385 6,385
32	SNIPER RIFLES MODIFICATIONS.....	1,898 1,898
33	M119 MODIFICATIONS.....	2,009 2,009
34	MORTAR MODIFICATION.....	1,689 1,689

81A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
35 MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV).....	2,604	2,604
SUPPORT EQUIPMENT AND FACILITIES		
36 ITEMS LESS THAN \$5.0M (WOCV-WTCV).....	2,763	2,763
37 PRODUCTION BASE SUPPORT (WOCV-WTCV).....	3,045	65,658
TOTAL, WEAPONS AND OTHER COMBAT VEHICLES.....	160,330	231,001
	=====	=====
TOTAL, PROCUREMENT OF W&TCV, ARMY.....	3,696,740	3,611,887
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 ARMORED MULTI PURPOSE VEHICLE (AMPV)	192,971	63,000
Early to need		-129,971
4 STRYKER UPGRADE	847,212	1,164,152
Program increase		340,000
Program increase - Stryker Terrestrial Layer System		35,000
CROWS-J delay		-39,160
Revised vehicle pricing		-18,900
5 BRADLEY PROGRAM (MOD)	493,109	277,259
Excess carryover		-17,350
TADSS excess growth		-5,000
Revised Underbelly Interim Solution pricing		-17,229
System technical support forward financing		-15,157
Army identified production delays		-161,114
7 PALADIN INTEGRATED MANAGEMENT (PIM)	435,825	463,425
Program increase - seven vehicles		54,600
Unit cost growth		-27,000
12 JOINT ASSAULT BRIDGE	72,178	0
Testing delays		-72,178
13 M1 ABRAMS TANK (MOD)	392,013	375,107
APS excess to need		-11,171
Excess carryover		-5,735
14 ABRAMS UPGRADE PROGRAM	1,033,253	968,094
Excess carryover		-9,377
Price savings		-55,782
15 M240 MEDIUM MACHINE GUN (7.62MM)	0	12,500
Program increase - M240 medium machine gun		12,500
20 PRECISION SNIPER RIFLE	10,137	8,895
Revised hardware costs		-1,242
22 CARBINE	7,411	5,411
Contradiction in budget justification and program brief for PMO		-2,000
27 M777 MODS	10,983	9,783
M777 retrofit forward financing		-1,200
37 PRODUCTION BASE SUPPORT (WOCV-WTCV)	3,045	65,658
JSMC-Lima - Army requested transfer from line 5		20,871
RIA-JMTC - Army requested transfer from line 5		20,871
Watervliet - Army requested transfer from line 5		20,871

810

MK93 MACHINE GUN MOUNT UPGRADE PROGRAM

The agreement encourages the Secretary of the Army to include funding for the Mk93 machine gun mount upgrade in the fiscal year 2022 President's budget request. Further the Secretary of the Army is directed to provide a report to the congressional defense committees, not later than 90 days after the enactment of this Act, which details plans to implement the Mk93 machine gun mount upgrade.

PROCUREMENT OF AMMUNITION, ARMY

The agreement provides \$2,790,140,000 for Procurement of Ammunition, Army,
as follows:

~~(INSERT COMPUTER TABLE)~~

e insert 83A-C

~~(INSERT PROJECT LEVEL TABLE)~~

e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMUNITION, ARMY		
AMMUNITION		
SMALL/MEDIUM CAL AMMUNITION		
1	CTG, 5.56MM, ALL TYPES.....	68,472 63,403
2	CTG, 7.62MM, ALL TYPES.....	109,933 103,303
3	NEXT GENERATION SQUAD WEAPON AMMUNITION.....	11,988 11,988
4	CTG, HANDGUN, ALL TYPES.....	853 853
5	CTG, .50 CAL, ALL TYPES.....	58,280 57,927
6	CTG, 20MM, ALL TYPES.....	31,708 31,708
7	CTG, 25MM, ALL TYPES.....	9,111 9,111
8	CTG, 30MM, ALL TYPES.....	58,172 55,896
9	CTG, 40MM, ALL TYPES.....	114,638 109,934
MORTAR AMMUNITION		
10	60MM MORTAR, ALL TYPES.....	31,222 31,222
11	81MM MORTAR, ALL TYPES.....	42,857 42,857
12	120MM MORTAR, ALL TYPES.....	107,762 117,762
TANK AMMUNITION		
13	CTG TANK 105MM AND 120MM: ALL TYPES.....	233,444 231,955
ARTILLERY AMMUNITION		
14	CTG, ARTY, 75MM AND 105MM: ALL TYPES.....	35,963 35,963
15	ARTILLERY PROJECTILE, 155MM, ALL TYPES.....	293,692 306,292
16	PROJ 155MM EXTENDED RANGE XM982.....	69,159 54,412
17	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES.....	232,913 225,337
MINES		
18	MINES AND CLEARING CHARGES, ALL TYPES.....	65,278 48,966
19	CLOSE TERRAIN SHAPING OBSTACLE.....	4,995 4,995
ROCKETS		
20	SHOULDER LAUNCHED MUNITIONS, ALL TYPES.....	69,112 69,112
21	ROCKET, HYDRA 70, ALL TYPES.....	125,915 125,915
OTHER AMMUNITION		
22	CAD/PAD ALL TYPES.....	8,891 8,891
23	DEMOLITION MUNITIONS, ALL TYPES.....	54,043 54,043
24	GRENADES, ALL TYPES.....	28,931 32,931
25	SIGNALS, ALL TYPES.....	27,036 27,036
26	SIMULATORS, ALL TYPES.....	10,253 10,253

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
27 MISCELLANEOUS AMMO COMPONENTS, ALL TYPES.....	3,476	3,476
29 ITEMS LESS THAN \$5 MILLION.....	10,569	10,569
30 AMMUNITION PECULIAR EQUIPMENT.....	12,338	12,338
31 FIRST DESTINATION TRANSPORTATION (AMMO).....	15,908	15,908
32 CLOSEOUT LIABILITIES.....	99	99
TOTAL, AMMUNITION.....	1,947,011	1,914,455
AMMUNITION PRODUCTION BASE SUPPORT PRODUCTION BASE SUPPORT 33 PROVISION OF INDUSTRIAL FACILITIES.....	592,224	684,224
34 CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL.....	235,112	188,092
35 ARMS INITIATIVE.....	3,369	3,369
TOTAL, AMMUNITION PRODUCTION BASE SUPPORT.....	830,705	875,685
TOTAL, PROCUREMENT OF AMMUNITION, ARMY.....	2,777,716	2,790,140

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 CTG, 5.56MM, ALL TYPES	68,472	63,403
E04607 unit cost growth		-2,178
E095700 unit cost growth		-2,891
2 CTG, 7.62MM, ALL TYPES	109,933	103,303
E01902 unit cost growth		-2,983
E02012 unit cost growth		-3,647
5 CTG, .50 CAL, ALL TYPES	58,280	57,927
E07302 unit cost growth		-353
8 CTG, 30MM, ALL TYPES	58,172	55,896
E09191 unit cost growth		-1,980
E10100 excess production engineering cost		-296
9 CTG, 40MM, ALL TYPES	114,638	109,934
E05611 production engineering previously funded		-4,704
12 120MM MORTAR, ALL TYPES	107,762	117,762
Program increase - 120mm mortars, M929		10,000
13 CTG TANK 105MM AND 120MM: ALL TYPES	233,444	231,955
E73201 unit cost growth		-1,489
15 ARTILLERY PROJECTILE, 155MM, ALL TYPES	293,692	306,292
Program increase - XM1128		15,000
E68510 excess production engineering		-2,400
16 PROJ 155MM EXTENDED RANGE XM982	69,159	54,412
E80103 unit cost growth		-14,747
17 ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES	232,913	225,337
MOFA early to need		-7,576
18 MINES AND CLEARING CHARGES, ALL TYPES	65,278	48,966
Excess to need		-16,312
24 GRENADES, ALL TYPES	28,931	32,931
Program increase - grenades, M14 and M18		4,000
33 PROVISION OF INDUSTRIAL FACILITIES	592,224	684,224
Program increase - safety and environmental upgrades		84,000
Program increase - lightweight ammunition manufacturing		8,000
34 CONVENTIONAL MUNITIONS DEMILITARIZATION	235,112	188,092
Reduce carryover		-47,020

830

ARMY NON-LETHAL CONDUCTIVE ELECTRICAL WEAPON UPGRADE

The Army currently is working to upgrade its existing stocks of Conductive Electrical Weapons (CEWs), which are five years past their recommended end-of-life date. Functionality is critical at the moment personnel determine non-lethal force is warranted, but currently deployed taser CEWs have an unacceptably high risk of failing to operate when most needed, which could necessitate an escalation to lethal force. The Secretary of the Army is encouraged to proceed with the ongoing qualification efforts. There is concern over the lack of any published plan to immediately transition from qualification to procurement and deployment. This raises a concern that the Army will still be using outdated and unsupported CEW models even after qualification occurs. Therefore, the Assistant Secretary of the Army (Acquisition, Logistics and Technology) is directed to submit a report to the congressional defense committees, not later than 60 days after the enactment of this Act, detailing a five-year upgrade plan for CEWs, including whether the Army has considered the possible benefits of a continuous support and upgrade plan.

OTHER PROCUREMENT, ARMY

The agreement provides \$8,603,112,000 for Other Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 85A-J

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OTHER PROCUREMENT, ARMY		
TACTICAL AND SUPPORT VEHICLES		
TACTICAL VEHICLES		
1	TACTICAL TRAILERS/DOLLY SETS.....	12,986 9,653
2	SEMITRAILERS, FLATBED:.....	31,443 22,460
3	SEMITRAILERS, TANKERS.....	17,082 17,082
HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE		
4	(HMMWV).....	44,795 126,747
5	GROUND MOBILITY VEHICLES (GMV).....	37,932 29,247
6	ARNG HMMWV MODERNIZATION PROGRAM.....	--- 100,000
8	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES...	894,414 884,414
9	TRUCK, DUMP, 20t (CCE).....	29,368 29,368
10	FAMILY OF MEDIUM TACTICAL VEH (FMTV).....	95,092 181,092
11	FAMILY OF COLD WEATHER ALL-TERRAIN VEHICLE (C)....	999 9,249
12	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMEN.....	27,687 27,687
14	PLS ESP.....	21,969 19,771
15	HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV.....	65,635 92,619
16	HMMWV RECAPITALIZATION PROGRAM.....	5,927 ---
17	TACTICAL WHEELED VEHICLE PROTECTION KITS.....	36,497 36,497
18	MODIFICATION OF IN SVC EQUIP.....	114,977 56,112
NON-TACTICAL VEHICLES		
20	PASSENGER CARRYING VEHICLES.....	1,246 1,246
21	NONTACTICAL VEHICLES, OTHER.....	19,870 ---

	TOTAL, TACTICAL AND SUPPORT VEHICLES.....	1,457,919 1,643,244
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		
COMM - JOINT COMMUNICATIONS		
22	SIGNAL MODERNIZATION PROGRAM.....	160,469 151,179
23	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE.....	360,379 347,782
24	SITUATION INFORMATION TRANSPORT.....	63,396 63,396
26	JCSE EQUIPMENT (USREDCOM).....	5,170 5,170
COMM - SATELLITE COMMUNICATIONS		
29	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS.....	101,498 101,498
30	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS.....	72,450 106,750
31	SHF TERM.....	13,173 13,173
32	ASSURED POSITIONING, NAVIGATION AND TIMING.....	134,928 128,387
33	SMART-T (SPACE).....	8,611 8,611

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
34 GLOBAL BRDCST SVC - GBS.....	8,191	8,191
COMM - COMBAT SUPPORT COMM COMM - C3 SYSTEM		
36 COE TACTICAL SERVER INFRASTRUCTURE (TSI).....	94,871	86,198
COMM - COMBAT COMMUNICATIONS		
37 HANDHELD MANPACK SMALL FORM FIT (HMS).....	550,848	545,648
38 RADIO TERMINAL SET, MIDS LVT(2).....	8,237	8,237
41 SPIDER FAMILY OF NETWORKED MUNITIONS INCR.....	13,967	---
43 UNIFIED COMMAND SUITE.....	19,579	19,579
44 COTS COMMUNICATIONS EQUIPMENT.....	94,156	108,556
45 FAMILY OF MED COMM FOR COMBAT CASUALTY CARE.....	18,313	18,313
46 ARMY COMMUNICATIONS & ELECTRONICS.....	51,480	51,480
COMM - INTELLIGENCE COMM		
48 CI AUTOMATION ARCHITECTURE (MIP).....	13,146	13,146
49 DEFENSE MILITARY DECEPTION INITIATIVE.....	5,624	5,624
INFORMATION SECURITY		
51 INFORMATION SYSTEM SECURITY PROGRAM-ISSP.....	4,596	4,596
52 COMMUNICATIONS SECURITY (COMSEC).....	159,272	159,272
53 DEFENSIVE CYBER OPERATIONS.....	54,753	41,153
54 INSIDER THREAT PROGRAM - UNIT ACTIVITY MONITOR....	1,760	1,760
56 ITEMS LES THAN \$5M (INFO SECURITY).....	260	260
COMM - LONG HAUL COMMUNICATIONS		
57 BASE SUPPORT COMMUNICATIONS.....	29,761	29,761
COMM - BASE COMMUNICATIONS		
58 INFORMATION SYSTEMS.....	147,696	147,696
59 EMERGENCY MANAGEMENT MODERNIZATION PROGRAM.....	4,900	---
60 HOME STATION MISSION COMMAND CENTERS (MSMCC).....	15,227	15,227
61 JOINT INFORMATION ENVIRONMENT (JIE).....	3,177	3,177
62 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM.....	300,035	269,720
ELECT EQUIP		
ELECT EQUIP - TACT INT REL ACT (TIARA)		
65 JTT/CIBS-M (MIP).....	5,304	5,304
66 TERRESTRIAL LAYER SYSTEMS (TLS) (MIP).....	8,081	8,081
68 DCGS-A (MIP).....	151,886	149,886
70 TROJAN (MIP).....	17,593	17,593

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
71 MOD OF IN-SVC EQUIP (INTEL SPT) (MIP).....	28,558	66,058
73 BIOMETRIC TACTICAL COLLECTION DEVICES (MIP).....	999	999
75 ELECT EQUIP - ELECTRONIC WARFARE (EW) LIGHTWEIGHT COUNTER MORTAR RADAR.....	5,332	5,332
76 EW PLANNING AND MANAGEMENT TOOLS.....	7,849	7,849
77 AIR VIGILANCE (AV).....	8,160	8,160
79 MULTI-FUNCTION ELECTRONIC WARFARE (MFEW) SYST.....	8,669	8,669
82 CI MODERNIZATION (MIP).....	300	300
83 ELECT EQUIP - TACTICAL SURV. (TAC SURV) SENTINEL MODS.....	58,884	58,884
84 NIGHT VISION DEVICES.....	1,127,375	867,180
86 SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF.....	13,954	7,715
88 INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS.....	10,069	20,069
89 FAMILY OF WEAPON SIGHTS (FWS).....	133,590	86,389
91 JOINT BATTLE COMMAND - PLATFORM (JBC-P).....	243,850	243,850
92 JOINT EFFECTS TARGETING SYSTEM (JETS).....	69,641	54,206
94 COMPUTER BALLISTICS: LHMCB XM32.....	7,509	7,509
95 MORTAR FIRE CONTROL SYSTEM.....	3,800	3,800
96 MORTAR FIRE CONTROL SYSTEM MODIFICATIONS.....	7,292	7,292
97 COUNTERFIRE RADARS.....	72,421	71,404
98 ELECT EQUIP - TACTICAL C2 SYSTEMS ARMY COMMAND POST INTEGRATED INFRASTRUCTURE.....	49,947	23,000
99 FIRE SUPPORT C2 FAMILY.....	9,390	9,390
100 AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD).....	47,374	47,374
101 IAMD BATTLE COMMAND SYSTEM.....	201,587	198,587
102 LIFE CYCLE SOFTWARE SUPPORT (LCSS).....	4,495	2,495
103 NETWORK MANAGEMENT INITIALIZATION AND SERVICE.....	18,651	18,651
105 GLOBAL COMBAT SUPPORT SYSTEM-ARMY.....	2,792	2,792
106 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY.....	9,071	9,071
107 RECONNAISSANCE AND SURVEYING INSTRUMENT SET.....	12,117	12,117
108 MOD OF IN-SERVICE EQUIPMENT (ENFIRE).....	3,004	14,004
109 ELECT EQUIP - AUTOMATION ARMY TRAINING MODERNIZATION.....	14,574	14,574
110 AUTOMATED DATA PROCESSING EQUIPMENT.....	140,619	134,635

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
111 GENERAL FUND ENTERPRISE BUSINESS SYSTEM.....	4,448	4,448
112 HIGH PERF COMPUTING MOD PROGRAM.....	68,405	88,405
113 CONTRACT WRITING SYSTEM.....	8,459	2,459
114 CSS COMMUNICATIONS.....	57,651	51,129
115 RESERVE COMPONENT AUTOMATION SYS (RCAS).....	14,848	14,848
ELECT EQUIP - AUDIO VISUAL SYS (A/V)		
117 ITEMS LESS THAN \$5M (SURVEYING EQUIPMENT).....	4,995	4,995
ELECT EQUIP - SUPPORT		
119 BCT EMERGING TECHNOLOGIES.....	16,983	8,491
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.	5,200,449	4,831,534
OTHER SUPPORT EQUIPMENT		
CHEMICAL DEFENSIVE EQUIPMENT		
121 FAMILY OF NON-LETHAL EQUIPMENT (FNLE).....	---	7,000
123 CBRN DEFENSE.....	28,456	28,456
124 SMOKE & OBSCURANT FAMILY: SOF (NON AAO ITEM).....	13,995	13,995
BRIDGING EQUIPMENT		
125 TACTICAL BRIDGING.....	10,545	10,545
126 TACTICAL BRIDGE, FLOAT-RIBBON.....	72,074	72,074
127 BRIDGE SUPPLEMENTAL SET.....	32,493	32,493
128 COMMON BRIDGE TRANSPORTER RECAP.....	62,978	55,032
ENGINEER (NON-CONSTRUCTION) EQUIPMENT		
129 HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST.....	5,570	5,570
130 GROUND STANDOFF MINE DETECTION SYSTEM (GSTAMIDS) ..	2,497	2,497
132 HUSKY MOUNTED DETECTION SYSTEM (HMDS).....	109,069	95,608
134 EOD ROBOTICS SYSTEMS RECAPITALIZATION.....	36,584	36,584
135 ROBOTICS AND APPLIQUE SYSTEMS.....	179,544	172,744
137 RENDER SAFE SETS KITS OUTFITS.....	64,583	64,583
139 FAMILY OF BOATS AND MOTORS.....	5,289	5,289
COMBAT SERVICE SUPPORT EQUIPMENT		
140 HEATERS AND ECU'S.....	8,200	8,200
142 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS).....	4,625	4,625
143 GROUND SOLDIER SYSTEM.....	154,937	137,481
144 MOBILE SOLDIER POWER.....	34,297	34,297
145 FORCE PROVIDER.....	---	6,000
147 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM.....	53,021	53,021

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
148 FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS.....	23,324	23,324
149 ITEMS LESS THAN \$5M (ENG SPT).....	8,014	8,014
PETROLEUM EQUIPMENT		
150 DISTRIBUTION SYSTEMS, PETROLEUM & WATER.....	78,448	72,348
MEDICAL EQUIPMENT		
151 COMBAT SUPPORT MEDICAL.....	59,485	69,485
MAINTENANCE EQUIPMENT		
152 MOBILE MAINTENANCE EQUIPMENT SYSTEMS.....	40,337	160,337
153 ITEMS LESS THAN \$5.0M (MAINT EQ).....	5,386	5,386
CONSTRUCTION EQUIPMENT		
154 GRADER, ROAD MTZD, HVY, 6X4 (CCE).....	5,406	5,406
155 SCRAPERS, EARTHMOVING.....	4,188	4,188
156 LOADERS.....	4,521	4,521
157 HYDRAULIC EXCAVATOR.....	5,186	5,186
158 TRACTOR, FULL TRACKED.....	4,715	4,715
159 ALL TERRAIN CRANES.....	70,560	70,560
162 CONST EQUIP ESP.....	8,925	8,925
RAIL FLOAT CONTAINERIZATION EQUIPMENT		
164 ARMY WATERCRAFT ESP.....	40,910	40,910
165 MANEUVER SUPPORT VESSEL (MSV).....	76,576	76,576
166 ITEMS LESS THAN \$5.0M (FLOAT/RAIL).....	1,844	1,844
GENERATORS		
167 GENERATORS AND ASSOCIATED EQUIPMENT.....	53,433	101,133
168 TACTICAL ELECTRIC POWER RECAPITALIZATION.....	22,216	22,216
MATERIAL HANDLING EQUIPMENT		
169 FAMILY OF FORKLIFTS.....	16,145	16,110
TRAINING EQUIPMENT		
170 COMBAT TRAINING CENTERS SUPPORT.....	90,580	90,580
171 TRAINING DEVICES, NONSYSTEM.....	161,814	161,814
172 SYNTHETIC TRAINING ENVIRONMENT (STE).....	13,063	13,063
175 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING.....	1,950	1,950
TEST MEASURE AND DIG EQUIPMENT (TMD)		
176 CALIBRATION SETS EQUIPMENT.....	2,511	2,511
177 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE).....	78,578	77,214

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
178 TEST EQUIPMENT MODERNIZATION (TEMOD).....	14,941	14,941
OTHER SUPPORT EQUIPMENT		
180 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT.....	8,629	8,629
181 PHYSICAL SECURITY SYSTEMS (OPA3).....	75,499	77,251
182 BASE LEVEL COM'L EQUIPMENT.....	27,444	15,650
183 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3).....	32,485	66,485
187 SPECIAL EQUIPMENT FOR TEST AND EVALUATION.....	39,436	39,436
	-----	-----
TOTAL, OTHER SUPPORT EQUIPMENT.....	1,955,306	2,116,802
SPARE AND REPAIR PARTS		
189 INITIAL SPARES - C&E.....	9,950	9,950
999 CLASSIFIED PROGRAMS.....	1,582	1,582
	=====	=====
TOTAL, OTHER PROCUREMENT, ARMY.....	8,625,206	8,603,112
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[in thousands of dollars]

P-1		Budget Request	Final Bill
1	TACTICAL TRAILERS/DOLLY SETS	12,986	9,653
	Insufficient acquisition strategy		-3,333
2	SEMITRAILERS, FLATBED	31,443	22,460
	M870 previously funded		-4,745
	25-ton low bed production verification testing early to need		-4,238
4	HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV)	44,795	126,747
	Transfer from line 16		5,927
	Transfer from line 18		76,025
5	GROUND MOBILITY VEHICLES (GMV)	37,932	29,247
	Infantry Squad Vehicle - Army requested transfer to RDTE,A line 126		-2,289
	Anticipated unit cost savings		-6,396
6	ARNG HMMWV MODERNIZATION PROGRAM	0	100,000
	Program increase		100,000
8	JOINT LIGHT TACTICAL VEHICLE	894,414	884,414
	Excess support costs		-10,000
10	FAMILY OF MEDIUM TACTICAL VEH (FMTV)	95,092	181,092
	Program increase		86,000
11	FAMILY OF COLD WEATHER ALL-TERRAIN VEHICLES	999	9,249
	Program increase - Arctic overland mobility		8,250
14	PLS ESP	21,969	19,771
	Anticipated unit cost savings		-2,198
15	HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV	65,635	92,619
	Program increase		33,500
	HETS costs previously funded		-6,500
	M983A4 unit cost growth		-16
16	HMMWV RECAPITALIZATION PROGRAM	5,927	0
	Transfer to line 4		-5,927
18	MODIFICATION OF IN SVC EQUIP	114,977	56,112
	LTV modification - transfer to line 4		-76,025
	Program increase - ABS/ESC		17,160
21	NONTACTICAL VEHICLES, OTHER	19,870	0
	Excess carryover		-19,870
22	SIGNAL MODERNIZATION PROGRAM	160,469	151,179
	Hardware pricing adjustments		-9,290
23	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE	360,379	347,782
	Engineering unjustified growth		-7,217
	Services previously funded		-5,380

P-1	Budget Request	Final Bill
30 TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	72,450	106,750
T2C2 unit cost growth		-3,700
Program increase - tactical network extension		38,000
32 ASSURED POSITIONING, NAVIGATION AND TIMING	134,928	128,387
Mounted APNT excess carryover		-6,541
36 COE TACTICAL SERVER INFRASTRUCTURE (TSI)	94,871	86,198
Post deployment software previously funded		-5,921
Contract management growth		-2,752
37 HANDHELD MANPACK SMALL FORM FIT (HMS)	550,848	545,648
System technical support excess growth		-5,200
41 SPIDER FAMILY OF NETWORKED MUNITIONS INCREASE	13,967	0
Program cancellation		-13,967
44 COTS COMMUNICATIONS EQUIPMENT	94,156	108,556
Excess carryover		-3,600
Program increase - radio software license		18,000
53 DEFENSIVE CYBER OPERATIONS	54,753	41,153
GDP unit cost differences		-1,600
Program management - Army requested transfer to RDTE,A line 267		-12,000
59 EMERGENCY MANAGEMENT MODERNIZATION PROGRAM	4,900	0
Excess carryover		-4,900
62 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	300,035	269,720
SWA and CONUS reduce carryover		-30,315
68 DCGS-A (MIP)	151,886	149,886
Fielding previously funded		-2,000
71 MOD OF IN-SVC EQUIP (INTEL SPT) (MIP)	28,558	66,058
Program increase - TEWS		37,500
84 NIGHT VISION DEVICES	1,127,375	867,180
IVAS ahead of need		-235,569
ENVG-B contract delays		-26,626
Program increase - night vision test system		2,000
86 SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF	13,954	7,715
Excess carryover		-6,239
88 INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS	10,069	20,069
Program increase - C-RAM warn communications enhancements		10,000
89 FAMILY OF WEAPON SIGHTS (FWS)	133,590	86,389
FWS-I unit cost growth		-15,340
FWS-CS early to need		-31,861

SSH

P-1	Budget Request	Final Bill
92 JOINT EFFECTS TARGETING SYSTEM (JETS)	69,641	54,206
Production delays		-20,435
Program increase		5,000
97 COUNTERFIRE RADARS	72,421	71,404
Reduce fielding carryover		-1,017
98 ARMY COMMAND POST INTEGRATED INFRASTRUCTURE	49,947	23,000
Ahead of need		-26,947
101 IAMD BATTLE COMMAND SYSTEM	201,587	198,587
Government program management excess		-3,000
102 LIFE CYCLE SOFTWARE SUPPORT (LCSS)	4,495	2,495
Excess carryover		-2,000
108 MOD OF IN-SERVICE EQUIPMENT (ENFIRE)	3,004	14,004
Program increase - land surveying systems		11,000
110 AUTOMATED DATA PROCESSING EQUIPMENT	140,619	134,635
AIE travel costs excess		-2,000
Accessions Information Environment licenses excess to need		-3,984
112 HIGH PERF COMPUTING MOD PROGRAM	68,405	88,405
Program increase - virtual prototyping capability		20,000
113 CONTRACT WRITING SYSTEM	8,459	2,459
Reduce carryover		-6,000
114 CSS COMMUNICATIONS	57,651	51,129
Unit cost growth		-6,522
119 BCT EMERGING TECHNOLOGIES	16,983	8,491
Fiscal year 2019 carryover		-8,492
121 FAMILY OF NON-LETHAL EQUIPMENT (FNLE)	0	7,000
Program increase - acoustic hailing device		7,000
128 COMMON BRIDGE TRANSPORTER RECAP	62,978	55,032
Unit cost discrepancies		-7,946
132 HUSKY MOUNTED DETECTION SYSTEM (HMDS)	109,069	95,608
Wire detection kits hardware expected contract savings		-12,334
Ground penetrating radar initial spares expected contract savings		-1,127
135 ROBOTICS AND APPLIQUE SYSTEMS	179,544	172,744
CRS-I oversight excess growth		-2,000
SMET contract delay		-4,800
143 GROUND SOLDIER SYSTEM	154,937	137,481
Unit cost discrepancies		-17,456
145 FORCE PROVIDER	0	6,000
Program increase - expeditionary shelter protection systems		6,000

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P-1	Budget Request	Final Bill
150 DISTRIBUTION SYSTEMS, PETROLEUM & WATER	78,448	72,348
MFS cost savings		-4,100
E2FDS data unjustified growth		-2,000
151 COMBAT SUPPORT MEDICAL	59,485	69,485
Program increase - combat support hospital deployable infrastructure		10,000
152 MOBILE MAINTENANCE EQUIPMENT SYSTEMS	40,337	160,337
Program increase - next generation HMMWV shop equipment		120,000
167 GENERATORS AND ASSOCIATED EQUIPMENT	53,433	101,133
Program increase - AMMPS		47,700
169 FAMILY OF FORKLIFTS	16,145	16,110
Unit cost growth		-35
177 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE)	78,578	77,214
ICE WATS previously funded		-1,364
181 PHYSICAL SECURITY SYSTEMS (OPA3)	75,499	77,251
Program increase - biometric fast lanes		5,000
Unjustified request		-3,248
182 BASE LEVEL COMMON EQUIPMENT	27,444	15,650
Unjustified program growth		-11,794
183 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)	32,485	66,485
Program increase - RTCH modernization		20,000
Program increase - containerized icemaking systems		14,000

FAMILY OF MEDIUM TACTICAL VEHICLES

The Program Executive Officer, Combat Support and Combat Service Support (PEO CS&CSS) has engaged in open dialogue regarding the transition of Family of Medium Tactical Vehicles (FMTV) from A1P2 to A2 vehicle variants. The Secretary of the Army is encouraged to continue pursuing the A2 variant. The Army historically has reported a Minimum Sustaining Rate (MSR) of one new vehicle per manufacturing day for the FMTV program and has programmed funding accordingly; however, recently the Army has acknowledged an actual MSR of three new vehicles per day. Failing to adequately program FMTV funding at the actual MSR risks negatively impacting the FMTV supply chain, which risks the health of the program. Interruption of the program would negatively impact Army readiness and modernization, erode the industrial base capacity, and add cost due to production breaks.

The agreement includes an additional \$86,000,000 for the FMTV program and the PEO CS&CSS is expected to program funding at the MSR of three new vehicles per manufacturing day. The PEO CS&CSS is further expected to reflect this revised FMTV MSR in budget justification materials commencing with the fiscal year 2022 budget request. Due to concerns with the FMTV supply chain, the Secretary of the Army is directed to provide a briefing not later than 90 days after the enactment of this Act to the congressional defense committees detailing its acquisition and budget plan to support the MSR of three new vehicles per manufacturing day through the remainder of the current contract.

ARCTIC OVERLAND MOBILITY

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

INTEGRATED VISUAL AUGMENTATION SYSTEM

The Army's efforts to modernize the force and maintain squad level overmatch against peer competitors is commendable, particularly the Army's iterative development approach. The Integrated Visual Augmentation System (IVAS) program includes a continual feedback cycle with industry and soldiers through both instrumented test and qualitative measurements. The agreement includes funding that will enable the start of procurement in support of the Army's plans to provide equipment to Close Combat Forces.

The IVAS program is pursuing an aggressive fielding schedule to a large population of Close Combat Forces, resulting in a significant low-rate initial production

procurement for an end-item that has not been operationally tested using production representative units, or its militarized form factor, as is planned for Soldier Touch Point Four. While the technology represents a potential leap-ahead in capability, it is essential that an appropriate amount of operational testing, including use by soldiers in realistic combat conditions with production representative units, inform the Army's decision to move to large-scale procurement. Therefore, the Program Executive Officer Soldier, in coordination with the program manager for IVAS, is directed to provide a briefing to the congressional defense committees, not later than 60 days after conclusion of Soldier Touch Point Four, to identify hardware and software design changes that will be incorporated into the final form factor prior to initiation of the first procurement lot.

Further, beginning with the fiscal year 2022 President's budget request, the program manager for IVAS is directed to provide the following information as cost elements within the P-40 budget line item justification, P-5 cost analysis, and P-5A procurement history and planning budget exhibits for IVAS: heads up display, puck, conformal wearable battery, IVAS radio, advance battery charger, and tactical cloud package. For each item, quantity, unit cost, contract award schedule, and manufacturer information should be provided. The program budget briefings should include information about the size of the force that will receive the hardware and software requested in the budget year. The program manager is encouraged to provide any additional information, including additional cost elements, that will add clarity and specificity regarding overall procurement within the multi-billion dollar investment.

AIRCRAFT PROCUREMENT, NAVY

The agreement provides \$19,480,280,000 for Aircraft Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 89A-H

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, NAVY		
COMBAT AIRCRAFT		
1	F/A-18E/F (FIGHTER) HORNET (MYP).....	1,761,146 1,725,400
3	JOINT STRIKE FIGHTER CV.....	2,181,780 2,774,797
4	JOINT STRIKE FIGHTER CV (AP-CY).....	330,386 326,147
5	JSF STOVL.....	1,109,393 1,172,830
6	JSF STOVL (AP-CY).....	303,035 303,035
7	CH-53K (HEAVY LIFT)	813,324 1,107,617
8	CH-53K (HEAVY LIFT) (AP-CY).....	201,188 201,188
9	V-22 (MEDIUM LIFT).....	934,793 1,237,232
10	V-22 (MEDIUM LIFT) (AP-CY).....	39,547 39,547
11	UH-1Y/AH-1Z.....	7,267 3,816
13	P-8A POSEIDON.....	80,134 1,575,000
15	E-2D ADV HAWKEYE.....	626,109 786,137
16	E-2D ADV HAWKEYE (AP-CY).....	123,166 123,166
	TOTAL, COMBAT AIRCRAFT.....	8,511,268 11,375,912

TRAINER AIRCRAFT		
17	ADVANCED HELICOPTER TRAINING SYSTEM.....	269,867 185,893
17A	E-6 TRAINING AIRCRAFT.....	--- 16,000
	TOTAL, TRAINER AIRCRAFT.....	269,867 201,893

OTHER AIRCRAFT		
18	KC-130J.....	380,984 375,558
19	KC-130J (AP-CY).....	67,022 67,022
21	MQ-4 TRITON.....	150,570 250,966
23	MQ-8 UAV.....	40,375 34,759
24	STUASLO UAV.....	30,930 30,065
26	VH-92A EXECUTIVE HELO.....	610,231 577,638
	TOTAL, OTHER AIRCRAFT.....	1,280,112 1,336,008

MODIFICATION OF AIRCRAFT		
28	F-18 A-D UNIQUE.....	208,261 183,719
29	F-18E/F AND EA-18G MODERNIZATION AND SUSTAIN.....	468,954 399,360
30	AEA SYSTEMS.....	21,061 21,061
31	AV-8 SERIES.....	34,082 32,684
32	INFRARED SEARCH AND TRACK (IRST).....	158,055 97,426

89A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
33 ADVERSARY.....	42,946	34,240
34 F-18 SERIES.....	379,351	369,600
35 H-53 SERIES.....	74,771	74,771
36 MH-60 SERIES.....	131,584	144,940
37 H-1 SERIES.....	185,140	134,490
38 EP-3 SERIES.....	26,602	26,602
40 E-2 SERIES.....	175,540	165,807
41 TRAINER A/C SERIES.....	7,085	7,085
42 C-2A.....	9,525	5,295
43 C-130 SERIES.....	141,705	118,913
44 FEWSG.....	684	684
45 CARGO/TRANSPORT A/C SERIES.....	8,911	8,911
46 E-6 SERIES.....	197,206	196,028
47 EXECUTIVE HELICOPTERS SERIES.....	29,086	25,970
49 T-45 SERIES.....	155,745	154,600
50 POWER PLANT CHANGES.....	24,633	24,633
51 JPATS SERIES.....	22,682	22,682
52 AVIATION LIFE SUPPORT MODS.....	40,401	45,401
53 COMMON ECM EQUIPMENT.....	138,480	134,366
54 COMMON AVIONICS CHANGES.....	143,322	123,416
55 COMMON DEFENSIVE WEAPON SYSTEM.....	2,142	2,142
56 ID SYSTEMS.....	35,999	35,999
57 P-8 SERIES.....	180,530	67,002
58 MAGTF EW FOR AVIATION.....	27,794	26,822
59 MQ-8 SERIES.....	28,774	28,774
60 V-22 (TILT/ROTOR ACFT) OSPREY.....	334,405	320,989
61 NEXT GENERATION JAMMER (NGJ).....	176,638	163,735
62 F-35 STOVL SERIES.....	153,588	151,797
63 F-35 CV SERIES.....	105,452	106,740
64 QUICK REACTION CAPABILITY (QRC).....	126,618	126,618

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
65 MQ-4 SERIES.....	12,998	3,584
66 RQ-21 SERIES.....	18,550	7,794
TOTAL, MODIFICATION OF AIRCRAFT.....	4,029,300	3,594,680
AIRCRAFT SPARES AND REPAIR PARTS		
70 SPARES AND REPAIR PARTS.....	2,198,460	2,197,486
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		
71 COMMON GROUND EQUIPMENT.....	543,559	507,946
72 AIRCRAFT INDUSTRIAL FACILITIES.....	75,685	75,685
73 WAR CONSUMABLES.....	40,633	40,633
74 OTHER PRODUCTION CHARGES.....	21,194	18,037
75 SPECIAL SUPPORT EQUIPMENT.....	155,179	129,879
76 FIRST DESTINATION TRANSPORTATION.....	2,121	2,121
TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES..	838,371	774,301
TOTAL, AIRCRAFT PROCUREMENT, NAVY.....	17,127,378	19,480,280

890

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 F/A-18E/F (FIGHTER) HORNET (MYP)	1,761,146	1,725,400
Contract award savings		-14,023
Rec flyaway ECO excess growth		-8,356
Ancillary equipment excess growth		-13,367
3 JOINT STRIKE FIGHTER CV	2,181,780	2,774,797
Unit cost adjustment		-9,883
Program increase - accelerate depot standup		84,500
Program increase - five aircraft		518,400
4 JOINT STRIKE FIGHTER CV (AP-CY)	330,386	326,147
Excess long lead material		-4,239
5 JSF STOVL	1,109,393	1,172,830
Unit cost adjustment		-21,063
Program increase - accelerate depot standup		84,500
7 CH-53K (HEAVY LIFT)	813,324	1,107,617
NRE previously funded		-12,690
Pubs/tech data previously funded		-18,600
Program increase - two additional aircraft		250,000
Full funding of fiscal year 2021 aircraft		75,583
9 V-22 (MEDIUM LIFT)	934,793	1,237,232
MV-22 unit cost growth		-13,024
Support costs excess growth		-11,061
CMV-22 unit cost growth		-13,476
Program increase - four aircraft		340,000
11 UH-1Y/AH-1Z	7,267	3,816
Other ILS prior year carryover		-3,451
13 P-8A POSEIDON	80,134	1,575,000
Production line shutdown and acquisition closure early to need		-80,134
Program increase - nine aircraft only for the Navy Reserve		1,575,000
15 E-2D ADV HAWKEYE	626,109	786,137
GFE electronics excess growth		-3,469
Peculiar training equipment excess growth		-15,003
Program increase - one additional aircraft		178,500
17 ADVANCED HELICOPTER TRAINING SYSTEM	269,867	185,893
Contract savings		-67,974
Transfer to line 17A only for Navy-identified training aircraft requirement		-16,000

P-1	Budget Request	Final Bill
17A E-6 TRAINING AIRCRAFT	0	16,000
Transfer from line 17 only for Navy-identified training aircraft requirement		16,000
18 KC-130J	380,984	375,558
Unit cost growth		-5,426
21 MQ-4 TRITON	150,570	250,966
Production line preservation costs excess to need		-36,106
Production engineering support excess growth		-5,993
Other ILS excess growth		-7,505
Program increase - one additional aircraft		150,000
23 MQ-8 UAV	40,375	34,759
NRE for FFG(X) early to need		-1,550
Ancillary equipment excess growth		-4,066
24 STUASLO UAV	30,930	30,065
Navy air vehicle unit cost adjustment		-865
26 VH-92A EXECUTIVE HELO	610,231	577,638
Unit cost growth		-20,191
Production engineering support previously funded		-12,402
28 F-18 A-D UNIQUE	208,261	183,719
F/A-18 aircraft structural life management plan (OSIP 11-99) unit cost growth		-5,462
F/A-18 aircraft structural life management plan (OSIP 11-99) other support excess growth		-4,587
F/A-18 aircraft structural life management plan (OSIP 11-99) installation excess growth		-1,942
USMC F/A-18 upgrade ECP-583 unit cost growth		-12,551
29 F-18E/F AND EA-18G MODERNIZATION AND SUSTAIN	468,954	399,360
EA-18G unique (OSIP 011-10) unit cost growth		-13,921
EA-18G unique (OSIP 011-10) installation equipment excess growth		-8,984
EA-18G unique (OSIP 011-10) support excess growth		-11,917
Power and propulsion (OSIP 11-13) unit cost growth		-9,205
E/F and EA-18G correction of deficiencies (OSIP 14-03) installation kits N/R excess growth		-2,890
E/F and EA-18G correction of deficiencies (OSIP 14-03) prior year procurement installation excess growth		-22,677
31 AV-8 SERIES	34,082	32,684
Common OFP V4 (OSIP 023-00) previously funded		-1,398
32 INFRARED SEARCH AND TRACK (IRST)	158,055	97,426
Installation equipment excess growth		-9,654
Support equipment excess growth		-20,706
Reduce concurrency IRST pods (OSIP 04-14)		-30,269

(3)

P-1	Budget Request	Final Bill
33 ADVERSARY	42,946	34,240
F-16 SLEP ahead of need		-8,706
34 F-18 SERIES	379,351	369,600
AESA/AN/AN-APG-65/AN-APG-73 (OSIP 002-07) installation equipment N/R previously funded		-6,663
DTP-N B kits unit cost growth (OSIP 001-10)		-3,088
36 MH-60 SERIES	131,584	144,940
MIDS BU2B kits unit cost growth (OSIP 018-12)		-1,644
Program increase - helicopter long range active sonar systems		5,000
Program increase - MH-60S block 3A modernization		10,000
37 H-1 SERIES	185,140	134,490
APR-39D(V)2 kits (OSIP 016-12) early to need		-6,720
Program OSIPs unjustified growth		-43,930
40 E-2 SERIES	175,540	165,807
Advanced radar processor (OSIP 003-20) previously funded		-4,483
SIPR chat conversion (OSIP 003-18) unjustified		-5,250
42 C-2A	9,525	5,295
Wing center section kits (OSIP 014-17) early to need		-3,158
Navy identified SIPR chat no longer valid (OSIP 011-07)		-1,072
43 C-130 SERIES	141,705	118,913
JAGM A kit procurement and installation (OSIP 022-07) early to need		-6,741
GFE excess growth (OSIP 019-14)		-8,509
Installation excess growth (OSIP 019-14)		-1,802
LAIRCM A kit installation (OSIP 020-12) unjustified growth		-2,530
Training equipment block upgrade (OSIP 019-14) unjustified growth		-3,210
46 E-6 SERIES	197,206	196,028
FAB-T A kits installation (OSIP 014-14) previously funded		-1,178
47 EXECUTIVE HELICOPTERS SERIES	29,086	25,970
Software support (OSIP 006-21) early to need		-3,116
49 T-45 SERIES	155,745	154,600
Transponder organic contract savings (OSIP 006-16)		-1,145
52 AVIATION LIFE SUPPORT MODS	40,401	45,401
Program increase - body armor vest		5,000
53 COMMON ECM EQUIPMENT	138,480	134,366
MV-22 kit cost growth (OSIP 014-90)		-2,019
H-1 kit cost growth (OSIP 014-90)		-2,095

P-1	Budget Request	Final Bill
54 COMMON AVIONICS CHANGES	143,322	123,416
Installation (OSIP 71-88) excess cost growth		-1,454
Installation equipment (OSIP 21-01) excess cost growth		-10,852
Installation equipment NRE (OSIP 06-20) excess cost growth		-7,600
57 P-8 SERIES	180,530	67,002
Increment 3 aircrew trainers (OSIP 006-18) previously funded		-7,709
ECP 6 kits early to need (OSIP 006-18)		-105,819
58 MAGTF EW FOR AVIATION	27,794	26,822
Support equipment (OSIP 010-13) excess growth		-3,472
Program increase - intrepid tiger II		2,500
60 V-22 (TILT/ROTOR ACFT) OSPREY	334,405	320,989
Enhanced crash survivable memory unit (OSIP 022-01) early to need		-1,440
V-22 PRGB input quill/clutch redesign previously funded		-1,500
Common configuration (OSIP 011-17) unit cost growth		-6,398
Traffic collision avoidance system (OSIP 009-19) previously funded		-2,352
Installation kits NRE (OSIP 009-19) previously funded		-1,726
61 NEXT GENERATION JAMMER (NGJ)	176,638	163,735
Other support (OSIP 002-19) unjustified request		-12,903
62 F-35 STOVL SERIES	153,588	151,797
B kits (OSIP 004-19) unit cost growth		-1,038
Reduce carryover (OSIP 012-20; Block 4 upgrade)		-3,010
Correction of deficiencies (OSIP 004-19) insufficient budget justification		-7,743
Program increase - reliability and maintainability improvement program		10,000
63 F-35 CV SERIES	105,452	106,740
Reduce carryover (OSIP 011-20; Block 4 upgrade)		-2,200
Correction of deficiencies (OSIP 001-21) insufficient budget justification		-6,512
Program increase - reliability and maintainability improvement program		10,000
65 MQ-4 SERIES	12,998	3,584
Operating base installation (OSIP 009-18) early to need		-3,029
Ground station kit (OSIP 009-18) early to need		-6,385
66 RQ-21 SERIES	18,550	7,794
SURFR payload suite (OSIP 004-20) unit cost growth		-1,481
Excess unobligated funds		-9,275
70 SPARES AND REPAIR PARTS	2,198,460	2,197,486
Excess to need		-167,974
Program increase - F/A-18 E/F engine spares		137,000
Program increase - F-35 B/C initial spares		30,000

P-1	Budget Request	Final Bill
71 COMMON GROUND EQUIPMENT	543,559	507,946
Hydraulics particle counter contract award delay		-2,815
Other flight training unjustified growth		-32,798
74 OTHER PRODUCTION CHARGES	21,194	18,037
TCTS justification discrepancies		-3,157
75 SPECIAL SUPPORT EQUIPMENT	155,179	129,879
Classified adjustment		-25,300

(S9H)

F/A-18 E/F SUPER HORNET PRODUCTION

The Navy has recently placed a focus on reducing the strike fighter shortfall and improving the readiness of its tactical aviation fleet. As such, the agreement includes support for the F/A-18 E/F Super Hornet program and funds the request for 24 aircraft in fiscal year 2021. However, the agreement recognizes that the elimination of the F/A-18 E/F aircraft from the future years defense program results in a reduction of three years of production and three squadrons of aircraft from the previously planned future years defense program. The Navy's decision to eliminate future production of F/A-18 E/F aircraft is premature and requires further analysis. The Navy states that this elimination of new aircraft is offset by the startup of the F/A-18E/F Service Life Modification (SLM) program, which will extend the life of the Super Hornet fleet and maintain tactical aviation readiness. While this is somewhat true, the SLM program is in its nascent stage and will take time to contribute to fleet readiness levels. SLM also relies on a production line of new Super Hornets for on-time parts and production expertise. It is unclear if the Navy has assessed the impact of eliminating new Super Hornets on SLM cost, effectiveness, and the long-term cost of sustaining an increasingly aging fleet.

The Secretary of the Navy is directed to submit a report to the congressional defense committees not later than 45 days after the enactment of this Act that provides an update on the Navy's strike fighter shortfall projected over the next 20 years, the impact of these previously mentioned outyear aircraft reductions on this shortfall, and an updated schedule of inductions and deliveries of aircraft in the SLM program. Further, the Director, Cost Assessment and Program Evaluation is directed to provide a report to the congressional defense committees not later than 45 days after the enactment of this Act on the life-cycle cost assessment of aircraft inducted through SLM and new aircraft, including procurement, personnel, and cost-per-flight hour comparisons.

JOINT STRIKE FIGHTER SERVICE LIFE

The fiscal year 2021 President's budget request includes \$259,040,000 for F-35B and F-35C modifications. This is an increase of \$178,097,000 above the fiscal year 2020 enacted level. The majority of this program increase is to support the structural life limited parts (SLLP) program, which has a future years defense program (FYDP) estimate of \$1,447,588,000. The increase was not projected in the fiscal year 2020 President's budget request, when the FYDP projection was \$283,881,000, which is \$1,163,707,000 less than what is reflected in fiscal year 2021.

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

There is a concern by the lack of detail about the SLLP program in the P-40, budget line item justification, and the P-3a, individual modification, exhibits and the supporting budget briefing materials. The budget materials should contain more detail going forward, to include visibility into A kits, B kits, installations, and support costs for SLLP-related engineering change proposals.

The Assistant Secretary of the Navy (Research, Development and Acquisition), in coordination with the Program Executive Officer, F-35 Joint Program Office, is directed to provide, not later than 30 days after the enactment of this Act, a briefing to the congressional defense committees on the service life extension efforts. The briefing shall include – by variant – costs to date, the planned total investment in the effort, service life

of aircraft after investment is complete, and the schedule for the effort. The briefing should also include information about any cost-sharing between the Department of Defense and the manufacturer.

WEAPONS PROCUREMENT, NAVY

The agreement provides \$4,477,773,000 for Weapons Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

Insert 93A-E

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

WEAPONS PROCUREMENT, NAVY		
BALLISTIC MISSILES		
MODIFICATION OF MISSILES		
1	TRIDENT II MODS.....	1,173,837 1,160,862
SUPPORT EQUIPMENT AND FACILITIES		
2	MISSILE INDUSTRIAL FACILITIES.....	7,275 7,275

	TOTAL, BALLISTIC MISSILES.....	1,181,112 1,168,137
OTHER MISSILES		
STRATEGIC MISSILES		
3	TOMAHAWK.....	277,694 224,685
TACTICAL MISSILES		
4	AMRAAM.....	326,952 204,251
5	SIDEWINDER.....	126,485 113,651
7	STANDARD MISSILE.....	456,206 422,627
8	STANDARD MISSILE (AP-CY).....	66,716 66,716
9	SMALL DIAMETER BOMB II.....	78,867 57,755
10	RAM.....	90,533 90,533
11	JOINT AIR GROUND MISSILE (JAGM).....	49,386 43,647
14	AERIAL TARGETS.....	174,336 168,261
15	DRONES AND DECOYS.....	41,256 19,956
16	OTHER MISSILE SUPPORT.....	3,501 3,501
17	LRASM.....	168,845 134,065
18	LCS OTH MISSILE.....	32,910 31,610
MODIFICATION OF MISSILES		
19	TOMAHAWK MODS.....	164,915 143,563
20	ESSM.....	215,375 212,637
22	HARM MODS.....	147,572 123,650
23	STANDARD MISSILES MODS.....	83,654 66,981
SUPPORT EQUIPMENT AND FACILITIES		
24	WEAPONS INDUSTRIAL FACILITIES.....	1,996 13,996
25	FLEET SATELLITE COMM FOLLOW-ON.....	53,401 52,401
ORDNANCE SUPPORT EQUIPMENT		
27	ORDNANCE SUPPORT EQUIPMENT.....	215,659 199,459

	TOTAL, OTHER MISSILES.....	2,776,259 2,393,945

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

TORPEDOES AND RELATED EQUIPMENT		
TORPEDOES AND RELATED EQUIP		
28	SSTD.....	5,811 5,811
29	MK-48 TORPEDO.....	284,901 276,844
30	ASW TARGETS.....	13,833 13,833
MOD OF TORPEDOES AND RELATED EQUIP		
31	MK-54 TORPEDO MODS.....	110,286 103,441
32	MK-48 TORPEDO ADCAP MODS.....	57,214 55,699
33	MARITIME MINES.....	5,832 5,832
SUPPORT EQUIPMENT		
34	TORPEDO SUPPORT EQUIPMENT.....	97,581 94,103
35	ASW RANGE SUPPORT.....	4,159 4,159
DESTINATION TRANSPORTATION		
36	FIRST DESTINATION TRANSPORTATION.....	4,106 4,106

	TOTAL, TORPEDOES AND RELATED EQUIPMENT.....	583,723 563,828
OTHER WEAPONS		
GUNS AND GUN MOUNTS		
37	SMALL ARMS AND WEAPONS.....	16,030 12,530
MODIFICATION OF GUNS AND GUN MOUNTS		
38	CIWS MODS.....	37,147 41,147
39	COAST GUARD WEAPONS.....	45,804 43,150
40	GUN MOUNT MODS.....	74,427 102,068
41	LCS MODULE WEAPONS.....	4,253 4,253
42	AIRBORNE MINE NEUTRALIZATION SYSTEMS.....	6,662 6,662

	TOTAL, OTHER WEAPONS.....	184,323 209,810
45	SPARES AND REPAIR PARTS.....	159,578 142,053
=====		
	TOTAL, WEAPONS PROCUREMENT, NAVY.....	4,884,995 4,477,773
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
1 TRIDENT II MODS	1,173,837	1,160,862
Joint fuze sustainment production delays		-8,540
Tooling, test/support equipment excess growth		-1,420
Production support/missile hardware excess growth		-3,015
3 TOMAHAWK	277,694	224,685
Unit cost carryover		-3,780
Contract award delay		-26,040
Maintain production level of effort		-19,989
Mk14 canister unit cost growth		-3,200
4 AMRAAM	326,952	204,251
F3R schedule delay		-121,000
Training equipment previously funded		-1,701
5 SIDEWINDER	126,485	113,651
Unit cost growth		-12,834
7 STANDARD MISSILE	456,206	422,627
Poor justification materials		-3,579
Production start-up early to need		-30,000
9 SMALL DIAMETER BOMB II	78,867	57,755
Contract award delay		-16,512
AUR unit cost growth		-4,600
11 JOINT AIR GROUND MISSILE (JAGM)	49,386	43,647
Contract award delay		-5,739
14 AERIAL TARGETS	174,336	168,261
EM443 hardware procurements/modifications excess growth		-2,375
BQM-177A FRP unit cost growth		-3,700
15 DRONES AND DECOYS	41,256	19,956
MALD concurrency		-21,300
17 LRASM	168,845	134,065
Excess to need/contract award delay		-34,780
18 LCS OTH MISSILE	32,910	31,610
Support costs unjustified		-1,300
19 TOMAHAWK MODS	164,915	143,563
MST production concurrency		-21,352
20 ESSM	215,375	212,637
Test equipment early to need		-2,738

930

P-1	Budget Request	Final Bill
22 HARM MODS	147,572	123,650
AARGM AUR installation kits excess cost growth		-7,060
AARGM ER long lead components unjustified request		-1,206
AARGM ER LRIP early to need		-15,656
23 STANDARD MISSILES MODS	83,654	66,981
SM-2 Block IIIC excess cost		-3,490
SM-2 Block IIIAZ modifications excess cost growth		-4,900
Diminishing manufacturing resources early to need		-8,283
24 WEAPONS INDUSTRIAL FACILITIES	1,996	13,996
Program increase - NIROP facilitization		12,000
25 FLEET SATELLITE COMM FOLLOW-ON	53,401	52,401
MUOS upgrade mod kits failure to comply with congressional direction		-1,000
27 ORDNANCE SUPPORT EQUIPMENT	215,659	199,459
Excess growth		-16,200
29 MK-48 TORPEDO	284,901	276,844
Guidance and control section excess unit cost growth		-5,389
After body/tail cone excess unit cost growth		-2,668
31 MK-54 TORPEDO MODS	110,286	103,441
HAAWC kits early to need		-6,845
32 MK-48 TORPEDO ADCAP MODS	57,214	55,699
CBASS kits excess cost growth		-1,515
34 TORPEDO SUPPORT EQUIPMENT	97,581	94,103
WES expansion box delays		-3,478
37 SMALL ARMS AND WEAPONS	16,030	12,530
MK50MOD1/CROWS II unjustified request		-3,500
38 CIWS MODS	37,147	41,147
Program increase - Phalanx SeaRAM weapons computer control upgrade		4,000

P-1	Budget Request	Final Bill
39 COAST GUARD WEAPONS	45,804	43,150
Machine gun system equipment OPC unjustified request		-2,654
40 GUN MOUNT MODS	74,427	102,068
MK38 backfit kits unjustified growth		-5,459
Operator ballistic protection for crew served weapons - rescind and reappropriate unobligated fiscal year 2020 funding		13,100
Program increase - operator ballistic protection for crew served weapons		20,000
45 SPARES AND REPAIR PARTS	159,578	142,053
Gun mount mods spares early to need		-2,335
Standard missile spares excess growth		-6,885
RAM spares unjustified growth		-8,305

93E

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

The agreement provides \$792,023,000 for Procurement of Ammunition, Navy and Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 94A-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMO, NAVY & MARINE CORPS		
PROC AMMO, NAVY		
NAVY AMMUNITION		
1	GENERAL PURPOSE BOMBS.....	41,496 41,496
2	JDAM.....	64,631 64,631
3	AIRBORNE ROCKETS, ALL TYPES.....	60,719 60,719
4	MACHINE GUN AMMUNITION.....	11,158 11,158
5	PRACTICE BOMBS.....	51,409 41,218
6	CARTRIDGES & CART ACTUATED DEVICES.....	64,694 63,263
7	AIR EXPENDABLE COUNTERMEASURES.....	51,523 51,523
8	JATOS.....	6,761 6,761
9	5 INCH/54 GUN AMMUNITION.....	31,517 28,670
10	INTERMEDIATE CALIBER GUN AMMUNITION.....	38,005 35,432
11	OTHER SHIP GUN AMMUNITION.....	40,626 35,401
12	SMALL ARMS & LANDING PARTY AMMO.....	48,202 48,202
13	PYROTECHNIC AND DEMOLITION.....	9,766 9,766
15	AMMUNITION LESS THAN \$5 MILLION.....	2,115 2,115
	TOTAL, PROC AMMO, NAVY.....	522,622 500,355

PROC AMMO, MARINE CORPS		
MARINE CORPS AMMUNITION		
16	MORTARS.....	46,781 45,761
17	DIRECT SUPPORT MUNITIONS.....	119,504 79,662
18	INFANTRY WEAPONS AMMUNITION.....	83,220 57,742
19	COMBAT SUPPORT MUNITIONS.....	32,650 25,003
20	AMMO MODERNIZATION.....	15,144 15,144
21	ARTILLERY MUNITIONS.....	59,539 64,214
22	ITEMS LESS THAN \$5 MILLION.....	4,142 4,142
	TOTAL, PROC AMMO, MARINE CORPS.....	360,980 291,668

	TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS.	883,602 792,023
=====		

94A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
5 PRACTICE BOMBS	51,409	41,218
Q1300 expected contract savings		-2,141
Q1040 contract delay		-3,988
Q1050 acquisition uncertainty		-4,062
6 CARTRIDGES & CART ACTUATED DEVICES	64,694	63,263
Misc devices under \$500K previously funded		-1,431
9 5 INCH/54 GUN AMMUNITION	31,517	28,670
MK 187 mod 0 projectile unit cost growth		-2,847
10 INTERMEDIATE CALIBER GUN AMMUNITION	38,005	35,432
BA23 contract award delay		-7,573
Program increase - ALaMO		5,000
11 OTHER SHIP GUN AMMUNITION	40,626	35,401
M72A8 LAW early to need		-5,225
16 MORTARS	46,781	45,761
CA66 fuze unit cost growth		-1,020
17 DIRECT SUPPORT MUNITIONS	119,504	79,662
Marine Corps identified excess to need		-39,842
18 INFANTRY WEAPONS AMMUNITION	83,220	57,742
BA54 excess growth		-7,242
BA55 excess growth		-7,669
A940 unit cost growth		-559
A059 unit cost growth		-8,613
AB57 unit cost growth		-1,149
A023 contract award delay		-246
19 COMBAT SUPPORT MUNITIONS	32,650	25,003
Linear charges, all types prior year carryover		-3,649
81mm non-lethal indirect fire munition unjustified request		-3,998
21 ARTILLERY MUNITIONS	59,539	64,214
DA54 explosive fill IMX 101 unit cost savings		-2,033
DA54 M795 IM metal part unit cost savings		-1,614
NA29 complete fuze unit cost savings		-1,678
Program increase - Artillery 155mm M825		10,000

94B

SHIPBUILDING AND CONVERSION, NAVY

The agreement provides \$23,268,880,000 for Shipbuilding and Conversion, Navy,
as follows:

~~(INSERT COMPUTER TABLE)~~ ^e

Insert 95A-E

~~(INSERT PROJECT LEVEL TABLE)~~ ^e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

SHIPBUILDING & CONVERSION, NAVY		
FLEET BALLISTIC MISSILE SHIPS		
1	COLUMBIA CLASS SUBMARINE.....	2,891,475 2,869,024
2	COLUMBIA CLASS SUBMARINE (AP-CY).....	1,123,175 1,253,175
OTHER WARSHIPS		
3	CARRIER REPLACEMENT PROGRAM (CVN 80).....	997,544 958,933
4	CARRIER REPLACEMENT PROGRAM (CVN 81).....	1,645,606 1,606,432
5	VIRGINIA CLASS SUBMARINE.....	1,862,693 4,603,213
6	VIRGINIA CLASS SUBMARINE (AP-CY).....	2,373,187 2,173,187
7	CVN REFUELING OVERHAUL.....	1,878,453 1,531,153
8	CVN REFUELING OVERHAULS (AP-CY).....	17,384 17,384
9	DDG 1000.....	78,205 78,205
10	DDG-51.....	3,040,270 3,219,843
11	DDG-51 (AP-CY).....	29,297 159,297
13	FFG-FRIGATE.....	1,053,123 1,053,123
	TOTAL, OTHER WARSHIPS.....	12,975,762 15,400,770

AMPHIBIOUS SHIPS		
14	LPD FLIGHT II.....	1,155,801 1,125,801
15	LPD 32 (AP).....	--- 1,000
15A	LPD 33 (AP).....	--- 1,000
16A	EXPEDITIONARY SEA BASE (ESB) (AP-CY).....	--- 73,000
17	LHA REPLACEMENT.....	--- 500,000
19	EXPEDITIONARY FAST TRANSPORT.....	--- 260,000
	TOTAL, AMPHIBIOUS SHIPS.....	1,155,801 1,960,801

AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS		
20	TAO FLEET OILER.....	--- 20,000
22	TOWING, SALVAGE, AND RESCUE SHIP (ATS).....	168,209 157,790
23	LCU 1700.....	87,395 87,395
24	OUTFITTING.....	825,586 752,005
26	SERVICE CRAFT.....	249,781 244,147

QSA

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
27 LCAC SLEP.....	56,461	56,461
28 COMPLETION OF PY SHIPBUILDING PROGRAMS.....	369,112	407,312
AUXILIARY VESSELS.....	---	60,000
TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM.....	1,756,544	1,785,110
TOTAL, SHIPBUILDING & CONVERSION, NAVY.....	19,902,757	23,268,880

95B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 COLUMBIA CLASS SUBMARINE	2,891,475	2,869,024
CANES early to need		-4,484
Electronic warfare early to need		-8,904
Photonics early to need		-9,063
2 COLUMBIA CLASS SUBMARINE (AP-CY)	1,123,175	1,253,175
SSBN 827 AP (IFF FY24-25)	[1,015,652]	[1,015,652]
SSBN 828 AP (FF FY26)	[93,034]	[93,034]
SSBN 829 AP (FF FY27)	[140]	[140]
SSBN 830 AP (FF FY28)	[1,070]	[1,070]
SSBN 831 AP (FF FY29)	[140]	[140]
SSBN 832 AP (FF FY30)	[140]	[140]
SSBN 833 AP (FF FY31)	[140]	[140]
SSBN 834 AP (FF FY32)	[140]	[140]
SSBN 835 AP (FF FY33)	[140]	[140]
SSBN 836 AP (FF FY34)	[140]	[140]
SSBN 837 AP (FF FY35)	[12,439]	[12,439]
Program increase - submarine industrial base expansion		130,000
3 CARRIER REPLACEMENT PROGRAM (CVN 80)	997,544	958,933
Hardware procurements early to need		-38,611
4 CARRIER REPLACEMENT PROGRAM (CVN-81)	1,645,606	1,606,432
Hardware procurements early to need		-39,174
5 VIRGINIA CLASS SUBMARINE	1,862,693	4,603,213
Universal modular mast excess funds		-4,449
Propulsor excess funds		-12,809
Hardware excess funds		-10,222
Navy requested transfer from line 6 for justification material error		472,000
Program increase - one additional submarine		2,296,000
6 VIRGINIA CLASS SUBMARINE (AP-CY)	2,373,187	2,173,187
SSN 807 AP (FF FY22)	[416,546]	[416,546]
SSN 808 AP (FF FY22)	[416,546]	[416,546]
SSN 809 AP (FF FY23)	[878,501]	[878,501]
SSN 810 AP (FF FY23)	[189,596]	[189,596]
Navy requested transfer to line 5 for justification material error		-472,000
Program increase - one additional submarine AP		272,000
7 CVN REFUELING OVERHAULS	1,878,453	1,531,153
CVN 74 RCOH prior year carryover		-226,300
Additional CVN 74 RCOH prior year carryover		-121,000
8 CVN REFUELING OVERHAULS (AP-CY)	17,384	17,384
CVN 75 AP (IFF FY25-26)	[17,384]	[17,384]

(950)

P-1	Budget Request	Final Bill
10 DDG-51	3,040,270	3,219,843
Excess funds		-35,427
Program increase - surface combatant shipyard infrastructure		215,000
11 DDG-51 (AP-CY)	29,297	159,297
DDG 138 AP (FF FY22)	[14,649]	[14,649]
DDG 139 AP (FF FY22)	[14,648]	[14,648]
Program increase - long lead time material only for third DDG-51 in fiscal year 2022		130,000
14 LPD FLIGHT II	1,155,801	1,125,801
LPD 31 contract award savings		-28,000
Transfer to line 15 only for LPD 32 EOQ		-1,000
Transfer to line 15A only for LPD 33 EOQ		-1,000
15 LPD 32 (AP-CY)	0	1,000
Transfer from line 14 only for LPD 32 EOQ		1,000
15A LPD 33 (AP-CY)	0	1,000
Transfer from line 14 only for LPD 33 EOQ		1,000
16A EXPEDITIONARY SEA BASE (AP-CY)	0	73,000
Program increase - advance procurement for ESB-8		73,000
17 LHA REPLACEMENT	0	500,000
Program increase - LHA 9		500,000
19 EXPEDITIONARY FAST TRANSPORT	0	260,000
Program increase - one additional ship		260,000
20 TAO FLEET OILER	0	20,000
Program increase - affordability initiatives		20,000
22 TOWING, SALVAGE, AND RESCUE SHIP (ATS)	168,209	157,790
Excess cost growth		-10,419
24 OUTFITTING	825,586	752,005
DDG-51 excess growth		-1,892
LPD outfitting early to need		-2,000
LCU outfitting early to need		-1,089
DDG-1000 post-delivery early to need		-3,753
LCS post-delivery excess to need		-5,595
CVN 79 outfitting		-37,847
SSN 801 outfitting		-12,005
LHA 8 outfitting		-9,400

(95)

P-1	Budget Request	Final Bill
26 SERVICE CRAFT	249,781	244,147
APL cost growth		-2,173
YC contract award delays		-3,461
28 COMPLETION OF PY SHIPBUILDING PROGRAMS	369,112	407,312
CVN 73 RCOH scope expansion		-11,800
Program increase - EPF unmanned logistics prototype conversion		50,000
XX AUXILIARY VESSELS	0	60,000
Two used sealift vessels for National Defense Reserve Fleet - transfer from OMN line 2A2F		60,000

(95E)

BUDGET JUSTIFICATION MATERIALS FOR SHIPBUILDING PROGRAMS

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

However, the Navy’s budget justification materials for incrementally funded shipbuilding programs have not been updated to reflect exceptions to the full funding policy, and the current P-5c, “Ship Cost Activity”, P-8a, “Analysis of Ship Cost Estimates”, and P-35, “Major Ship Component Fact Sheet”, budget exhibits do not clearly explain or justify funds identified on the P-40, “Budget Line Item Justification”, budget exhibit for the pending budget request. It is further noted that the Navy’s detailed budget justification briefs also do not routinely contain such information, nor is additional amplifying information provided at the time of the budget submission, despite previous congressional direction to do so. The House and Senate Appropriations Committees do not believe that future Navy budget requests can be supported absent improved budget justification materials for incrementally funded shipbuilding programs.

Therefore, the Assistant Secretary of the Navy (Financial Management and Comptroller), in consultation with the Assistant Secretary of the Navy (Research, Development and Acquisition), is directed to provide to the congressional defense committees, not later than 30 days after the enactment of this Act, templates for improved Navy budget justification materials and budget justification briefs for all Navy shipbuilding programs.

COLUMBIA CLASS SUBMARINES

The fiscal year 2021 President's budget request includes \$4,014,650,000 in Shipbuilding and Conversion, Navy for the incrementally funded procurement of the first COLUMBIA Class submarine (CLB) and for advance procurement (AP) of eleven additional hulls of the COLUMBIA class. It is noted that unprecedented acquisition and funding flexibilities have been provided by the Congress for the acquisition of the CLB, including authority to enter into economic order quantity contracts in fiscal year 2016, authority to award contracts for advance construction in fiscal year 2016, authority to award contracts for continuous production in fiscal year 2017, the expansion of such continuous production authority in fiscal year 2018, incremental funding authority for advance procurement in fiscal year 2016, authority for incremental full funding of the first two CLB submarines in fiscal year 2021, and sizeable additional appropriations to support the submarine industrial base for both COLUMBIA and VIRGINIA Class submarines.

Additionally, in fiscal year 2021, the Navy requested three-year AP appropriations of nuclear propulsion equipment components for the second CLB, which is believed to be an unprecedented use of AP but is not objected to in this agreement in this instance. However, the House and Senate Appropriations Committees are concerned about the potential use of such AP in the future. Therefore, the Assistant Secretary of the Navy

(Research, Development and Acquisition), in consultation with the Assistant Secretary of the Navy (Financial Manager and Comptroller) is directed to submit to the congressional defense committees, with submission of the President's fiscal year 2022 budget request, a certification of the need for any three-year AP requested in fiscal year 2022, as well as to provide a detailed execution update by component of three-year AP appropriated in fiscal year 2021, to include any deviations from information previously provided to the congressional defense committees in support of the Navy's three-year AP request for nuclear propulsion equipment in fiscal year 2021.

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

VIRGINIA CLASS SUBMARINES

The fiscal year 2021 President's budget request includes \$4,235,880,000 for the procurement of a single VIRGINIA Class submarine (VCS) as part of a nine-ship Block V multi-year procurement (MYP) contract that was awarded in December 2019. It is noted that this contract includes options for one additional VCS in fiscal years 2021, 2022, or 2023. It is further noted that the Block V contract award represents a change to the Navy's acquisition strategy for Block V VCS from fiscal years 2018 and 2019, when the Navy requested and was authorized MYP authority for a ten-ship Block V VCS acquisition.

The Navy's continued injection of programmatic, acquisition, and fiscal uncertainty into the VCS program is concerning because it likely will have detrimental effects on the acquisition of the COLUMBIA Class. Therefore, the agreement recommends an additional \$2,568,000,000 to fully fund a tenth VCS for the current MYP in fiscal year 2021. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide an update to the congressional defense committees on the Navy's submarine enterprise management and acquisition plans, to include progress updates on VCS Block IV performance and cost impacts, not later than with the fiscal year 2022 President's budget request.

DDG-51 FLIGHT III ACQUISITION STRATEGY

It is noted that the current multi-year procurement (MYP) contract for the DDG-51 Flight III destroyer ends in fiscal year 2022 and that with the submission of the fiscal year 2021 President's budget request the Navy further delayed the detailed design and construction schedule of the planned follow-on program, the future Large Surface

Combatant (LSC), until no earlier than fiscal year 2026. It is further noted that despite this delay to LSC, the Navy is planning to procure only four DDG-51 Flight III destroyers from fiscal years 2023 to 2025, well below the current 2.4 DDG-51 destroyers per year MYP acquisition, and that in each of the last two budget submissions the Navy has reduced the procurement profile for DDG-51 Flight III destroyers. This is inconsistent with previously stated shipbuilding objectives, and the lack of a predictable and stable acquisition strategy for large surface combatants undercuts naval maritime superiority and injects risk into the industrial base. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees, with submission of the fiscal year 2022 President's budget request, the Navy's fully funded strategy for large surface combatants. The agreement recommends an additional \$130,000,000 in advance procurement only for an additional DDG-51 Flight III destroyer in fiscal year 2022.

CONSTELLATION CLASS FRIGATE

The fiscal year 2021 President's budget request includes \$1,053,123,000 for the procurement of a second CONSTELLATION Class Frigate (CCF). The detail design and construction contract for FFG 62 (USS CONSTELLATION), the first ship of the class, was awarded in April 2020, and the Navy plans a design period of no less than 14 months prior to the start of construction of FFG 62 in the fourth quarter of fiscal year 2022. It is noted that the Navy did not plan a 'gap year' between construction of the first and second ships of the CCF that would allow for potential design changes to be incorporated into the build plan prior to the start of construction of the second ship. Instead, the Navy plans to exercise the contract option for the second CCF ship in fiscal year 2021 prior to the conclusion of the Critical Design and Production Readiness Reviews scheduled in

fiscal year 2022, and plans to start construction of the second ship in the first quarter of fiscal year 2023.

Given the Navy's past challenges in managing costs and schedule of lead ships of a class, it is believed that a high percentage of design completion is necessary to ensure success of this new shipbuilding program. For instance, it is noted that the previous class of small surface combatants, with arrangements for the two ship designs 60 percent and 34 percent complete at the start of construction, respectively, experienced cost growth in excess of 150 percent. By contrast, arrangements are 100 percent complete and design disclosures were over 80 percent complete prior to the start of construction of the COLUMBIA Class submarine.

The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to provide to the congressional defense committees, not later than with the fiscal year 2022 President's budget request, quarterly planned and actual design progress curves for technical requirements, arrangements, design disclosures, and work instructions for the CCF leading up to the start of construction of FFG 62. It is further directed that no funds for construction of the second CCF may be obligated until the Director, Cost Assessment and Program Evaluation has provided the congressional defense committees an updated cost assessment for the CCF based on the actual ship award and design changes implemented since the previous Independent Cost Estimate.

OTHER PROCUREMENT, NAVY

The agreement provides \$10,512,209,000 for Other Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 102A-K

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OTHER PROCUREMENT, NAVY		
SHIPS SUPPORT EQUIPMENT		
SHIP PROPULSION EQUIPMENT		
1	SURFACE POWER EQUIPMENT.....	11,738 10,661
GENERATORS		
2	SURFACE COMBATANT HM&E.....	58,497 54,628
NAVIGATION EQUIPMENT		
3	OTHER NAVIGATION EQUIPMENT.....	74,084 74,084
PERISCOPES		
SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT		
4	PROGRAM.....	204,806 190,954
OTHER SHIPBOARD EQUIPMENT		
5	DDG MOD.....	547,569 512,155
6	FIREFIGHTING EQUIPMENT.....	18,394 18,394
7	COMMAND AND CONTROL SWITCHBOARD.....	2,374 2,374
8	LHA/LHD MIDLIFE.....	78,265 66,512
9	POLLUTION CONTROL EQUIPMENT.....	23,035 20,222
10	SUBMARINE SUPPORT EQUIPMENT.....	64,632 64,632
11	VIRGINIA CLASS SUPPORT EQUIPMENT.....	22,868 22,868
12	LCS CLASS SUPPORT EQUIPMENT.....	3,976 7,976
13	SUBMARINE BATTERIES.....	31,322 31,322
14	LPD CLASS SUPPORT EQUIPMENT.....	50,475 50,475
15	DDG-1000 SUPPORT EQUIPMENT.....	42,279 37,859
16	STRATEGIC PLATFORM SUPPORT EQUIP.....	15,429 15,429
17	DSSP EQUIPMENT.....	2,918 2,918
18	CRUISER MODERNIZATION.....	87,978 87,978
19	LCAC.....	9,366 6,758
20	UNDERWATER EOD PROGRAMS.....	16,842 16,842
21	ITEMS LESS THAN \$5 MILLION.....	105,715 105,715
22	CHEMICAL WARFARE DETECTORS.....	3,044 3,044
23	SUBMARINE LIFE SUPPORT SYSTEM.....	5,885 5,885
24	SHIP MAINTENANCE, REPAIR AND MODERNIZATION.....	1,260,721 1,215,721
REACTOR PLANT EQUIPMENT		
25	REACTOR POWER UNITS.....	5,305 5,305
26	REACTOR COMPONENTS.....	415,404 401,219

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
27	OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT.....	11,143 11,143
28	SMALL BOATS STANDARD BOATS.....	52,371 46,451
29	PRODUCTION FACILITIES EQUIPMENT OPERATING FORCES IPE.....	233,667 218,112
30	OTHER SHIP SUPPORT LCS COMMON MISSION MODULES EQUIPMENT.....	39,714 36,323
31	LCS MCM MISSION MODULES.....	218,822 189,397
32	LCS ASW MISSION MODULES.....	61,759 38,359
33	LCS SUW MISSION MODULES.....	24,412 24,412
34	LCS IN-SERVICE MODERNIZATION.....	121,848 128,848
35	LOGISTICS SUPPORT SMALL & MEDIUM UUV.....	67,709 37,585
	TOTAL, SHIPS SUPPORT EQUIPMENT.....	3,994,366 3,762,560
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT	
37	SHIP SONARS SPQ-9B RADAR.....	27,517 27,517
38	AN/SQQ-89 SURF ASW COMBAT SYSTEM.....	128,664 128,664
39	SSN ACOUSTICS EQUIPMENT.....	374,737 372,822
40	UNDERSEA WARFARE SUPPORT EQUIPMENT.....	9,286 9,286
41	ASW ELECTRONIC EQUIPMENT SUBMARINE ACOUSTIC WARFARE SYSTEM.....	26,066 26,066
42	SSTD.....	13,241 13,241
43	FIXED SURVEILLANCE SYSTEM.....	193,446 193,446
44	SURTASS.....	63,838 63,838
45	ELECTRONIC WARFARE EQUIPMENT AN/SLQ-32.....	387,195 353,961
46	RECONNAISSANCE EQUIPMENT SHIPBOARD IW EXPLOIT.....	235,744 231,072
47	AUTOMATED IDENTIFICATION SYSTEM (AIS).....	3,862 3,862
48	OTHER SHIP ELECTRONIC EQUIPMENT COOPERATIVE ENGAGEMENT CAPABILITY.....	26,006 26,006
49	NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS).....	15,385 15,385
50	ATDLS.....	103,835 103,835

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
51	NAVY COMMAND AND CONTROL SYSTEM (NCCS).....	3,594 3,594
52	MINESWEEPING SYSTEM REPLACEMENT.....	15,744 15,744
53	SHALLOW WATER MCM.....	5,493 5,493
54	NAVSTAR GPS RECEIVERS (SPACE).....	38,043 38,043
55	ARMED FORCES RADIO AND TV.....	2,592 2,592
56	STRATEGIC PLATFORM SUPPORT EQUIP.....	7,985 7,985
	AVIATION ELECTRONIC EQUIPMENT	
57	ASHORE ATC EQUIPMENT.....	83,475 82,970
58	AFLOAT ATC EQUIPMENT.....	65,113 57,628
59	ID SYSTEMS.....	23,815 23,815
60	JOINT PRECISION APPROACH AND LANDING SYSTEM.....	100,751 96,751
61	NAVAL MISSION PLANNING SYSTEMS.....	13,947 13,947
	OTHER SHORE ELECTRONIC EQUIPMENT	
62	MARITIME INTEGRATED BROADCAST SYSTEM.....	1,375 1,375
63	TACTICAL/MOBILE C41 SYSTEMS.....	22,771 22,771
64	DCGS-N.....	18,872 18,872
65	CANES.....	389,585 389,585
66	RADIAC.....	10,335 10,335
67	CANES-INTELL.....	48,654 48,654
68	GPETE.....	8,133 8,133
69	NETWORK TACTICAL COMMON DATA LINK.....	4,150 3,556
70	INTEG COMBAT SYSTEM TEST FACILITY.....	5,934 5,934
71	EMI CONTROL INSTRUMENTATION.....	4,334 4,334
72	ITEMS LESS THAN \$5 MILLION.....	159,815 154,572
	SHIPBOARD COMMUNICATIONS	
73	SHIPBOARD TACTICAL COMMUNICATIONS.....	56,106 53,743
74	SHIP COMMUNICATIONS AUTOMATION.....	124,288 124,288
75	COMMUNICATIONS ITEMS UNDER \$5M.....	45,120 45,120
	SUBMARINE COMMUNICATIONS	
76	SUBMARINE BROADCAST SUPPORT.....	31,133 25,790
77	SUBMARINE COMMUNICATION EQUIPMENT.....	62,214 56,491
	SATELLITE COMMUNICATIONS	
78	SATELLITE COMMUNICATIONS SYSTEMS.....	47,421 47,421
79	NAVY MULTIBAND TERMINAL (NMT).....	64,552 55,342

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
80	SHORE COMMUNICATIONS JCS COMMUNICATIONS EQUIPMENT.....	4,398 4,398
81	CRYPTOGRAPHIC EQUIPMENT INFO SYSTEMS SECURITY PROGRAM (ISSP).....	157,551 157,551
82	MIO INTEL EXPLOITATION TEAM.....	985 985
83	CRYPTOLOGIC EQUIPMENT CRYPTOLOGIC COMMUNICATIONS EQUIP.....	15,906 14,845
90	OTHER ELECTRONIC SUPPORT COAST GUARD EQUIPMENT.....	70,689 61,580
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	3,323,695 3,233,238
92	AVIATION SUPPORT EQUIPMENT SONOBUOYS SONOBUOYS - ALL TYPES.....	237,639 277,297
93	AIRCRAFT SUPPORT EQUIPMENT MINOTAUR.....	5,077 5,077
94	WEAPONS RANGE SUPPORT EQUIPMENT.....	83,969 85,469
95	AIRCRAFT SUPPORT EQUIPMENT.....	187,758 176,438
96	ADVANCED ARRESTING GEAR (AAG).....	16,059 16,059
97	METEOROLOGICAL EQUIPMENT.....	15,192 15,192
99	LEGACY AIRBORNE MINE COUNTERMEASURES.....	6,674 6,674
100	COMMON CONTROL SYSTEM.....	1,189 1,189
101	AVIATION SUPPORT EQUIPMENT.....	58,873 57,174
102	UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL.....	60,937 40,070
	TOTAL, AVIATION SUPPORT EQUIPMENT.....	673,367 680,639
103	ORDNANCE SUPPORT EQUIPMENT SHIP GUN SYSTEM EQUIPMENT SHIP GUN SYSTEMS EQUIPMENT.....	5,540 5,540
104	SHIP MISSILE SYSTEMS EQUIPMENT HARPOON SUPPORT EQUIPMENT.....	208 ---
105	SHIP MISSILE SUPPORT EQUIPMENT.....	262,077 250,356
106	TOMAHAWK SUPPORT EQUIPMENT.....	84,087 77,370
107	FBM SUPPORT EQUIPMENT STRATEGIC MISSILE SYSTEMS EQUIP.....	258,910 251,683
	ASW SUPPORT EQUIPMENT	

1020

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
108 SSN COMBAT CONTROL SYSTEMS.....	173,770	162,167
109 ASW SUPPORT EQUIPMENT.....	26,584	23,511
OTHER ORDNANCE SUPPORT EQUIPMENT		
110 EXPLOSIVE ORDNANCE DISPOSAL EQUIP.....	7,470	7,470
111 ITEMS LESS THAN \$5 MILLION.....	6,356	6,356
OTHER EXPENDABLE ORDNANCE		
112 ANTI-SHIP MISSILE DECOY SYSTEM.....	86,356	72,056
113 SUBMARINE TRAINING DEVICE MODS.....	69,240	69,240
114 SURFACE TRAINING EQUIPMENT.....	192,245	168,730
TOTAL, ORDNANCE SUPPORT EQUIPMENT.....	1,172,843	1,094,479
CIVIL ENGINEERING SUPPORT EQUIPMENT		
115 PASSENGER CARRYING VEHICLES.....	6,123	6,123
116 GENERAL PURPOSE TRUCKS.....	2,693	---
117 CONSTRUCTION & MAINTENANCE EQUIP.....	47,301	42,510
118 FIRE FIGHTING EQUIPMENT.....	10,352	5,352
119 TACTICAL VEHICLES.....	31,475	31,475
121 POLLUTION CONTROL EQUIPMENT.....	2,630	2,630
122 ITEMS UNDER \$5 MILLION.....	47,972	44,272
123 PHYSICAL SECURITY VEHICLES.....	1,171	1,171
TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT.....	149,717	133,533
SUPPLY SUPPORT EQUIPMENT		
124 SUPPLY EQUIPMENT.....	19,693	19,693
125 FIRST DESTINATION TRANSPORTATION.....	4,956	4,956
126 SPECIAL PURPOSE SUPPLY SYSTEMS.....	668,639	668,639
TOTAL, SUPPLY SUPPORT EQUIPMENT.....	693,288	693,288
PERSONNEL AND COMMAND SUPPORT EQUIPMENT		
TRAINING DEVICES		
127 TRAINING SUPPORT EQUIPMENT.....	4,026	4,026
128 TRAINING AND EDUCATION EQUIPMENT.....	73,454	66,376
COMMAND SUPPORT EQUIPMENT		
129 COMMAND SUPPORT EQUIPMENT.....	32,390	32,390
130 MEDICAL SUPPORT EQUIPMENT.....	974	12,974
132 NAVAL MIP SUPPORT EQUIPMENT.....	5,606	4,106

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
133 OPERATING FORCES SUPPORT EQUIPMENT.....	16,024	16,024
134 C4ISR EQUIPMENT.....	6,697	6,697
135 ENVIRONMENTAL SUPPORT EQUIPMENT.....	27,503	27,503
136 PHYSICAL SECURITY EQUIPMENT.....	138,281	136,693
137 ENTERPRISE INFORMATION TECHNOLOGY.....	42,680	42,680
140 NEXT GENERATION ENTERPRISE SERVICE.....	184,443	173,443
141 CYBERSPACE ACTIVITIES.....	16,523	15,221
TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT..	548,601	538,133
142 SPARES AND REPAIR PARTS.....	374,195	357,893
CLASSIFIED PROGRAMS.....	18,446	18,446
TOTAL, OTHER PROCUREMENT, NAVY.....	10,948,518	10,512,209

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 SURFACE POWER EQUIPMENT	11,738	10,661
Gas turbine digital fuel control kits unit cost growth		-1,077
2 SURFACE COMBATANT HM&E	58,497	54,628
HM&E condition system unjustified growth		-3,687
Twister rudder installation early to need		-182
SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT		
4 PROGRAM	204,806	190,954
Imaging ISIS technical insertion kits unit cost growth		-1,526
AN/BLQ-10B technical insertion kits excess growth		-12,326
5 DDG MOD	547,569	512,155
GEDMS equipment installation excess growth		-1,334
GEDMS equipment flight IIA installation excess growth		-3,181
MCS/DCS equipment flight II/IIA installation excess growth		-10,126
IBNS equipment installation excess growth		-3,061
AWS equipment installation excess growth		-11,489
Multi-mission SIGPRO equipment installation excess growth		-1,793
MC/DIAS equipment installation excess growth		-2,340
Moriah wind system equipment installation excess growth		-1,255
IVCS equipment installation excess growth		-3,335
Program increase - mobile seamanship and navigation trainer		2,500
8 LHA/LHD MIDLIFE	78,265	66,512
Propulsion and auxiliary control system kits early to need		-8,490
SCS-GOV kits early to need		-3,263
9 POLLUTION CONTROL EQUIPMENT	23,035	20,222
OPA improvements unjustified growth		-2,813
12 LCS CLASS SUPPORT EQUIPMENT	3,976	7,976
Program increase - water purification systems		4,000
14 LPD CLASS SUPPORT EQUIPMENT	50,475	50,475
LPD-19 delays		-5,000
Program increase - alternative valve actuator competition for LPDs		5,000
15 DDG-1000 SUPPORT EQUIPMENT	42,279	37,859
Diminishing manufacturing sources and material shortages unjustified growth		-3,220
DDG-1000 surface strike unjustified request		-1,200
19 LCAC	9,366	6,758
LCAC systems upgrade unit cost growth		-623
Cold weather kits unit cost growth		-1,985

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P-1	Budget Request	Final Bill
24 SHIP MAINTENANCE, REPAIR AND MODERNIZATION	1,260,721	1,215,721
Early to need		-45,000
26 REACTOR COMPONENTS	415,404	401,219
Unit cost growths of multiple components		-11,559
Field change procurement unjustified request		-2,626
28 STANDARD BOATS	52,371	46,451
EDO RIBs unit cost growth		-1,248
40PB prior year carryover		-4,672
29 OPERATING FORCES IPE	233,667	218,112
CNC shaft lathe contract delays		-15,555
30 LCS COMMON MISSION MODULES EQUIPMENT	39,714	36,323
MPCE hardware contract award delays		-1,732
MPCE tech refresh contract award delays		-1,659
31 LCS MCM MISSION MODULES	218,822	189,397
Minesweeping payload delivery system early to need		-4,686
Remote minehunting module excess to need		-24,739
32 LCS ASW MISSION MODULES	61,759	38,359
Schedule slips		-23,400
34 LCS IN-SERVICE MODERNIZATION	121,848	128,848
Program increase - continuation of the condition-based maintenance modernization of combat and communication systems including integration of additional equipment		7,000
35 SMALL & MEDIUM UUV	67,709	37,585
Knifefish concurrency		-30,124
39 SSN ACOUSTICS EQUIPMENT	374,737	372,822
Low cost conformal array kits installation excess growth		-1,915
45 AN/SLQ-32	387,195	353,961
Block 2 electronic support system tech refresh excess growth		-2,677
Block 3 kit early to need		-30,557
46 SHIPBOARD IW EXPLOIT	235,744	231,072
SSEE increment F(V) 7/8 ECP blade kits early to need		-4,672
57 ASHORE ATC EQUIPMENT	83,475	82,970
DASR tech refresh upgrade III early to need		-505
58 AFLOAT ATC EQUIPMENT	65,113	57,628
ACLS mod kits installation cost growth		-1,517
AN/SPN-46 Block IV excess installation costs		-1,345
AN/SPN-35 Block I contract award delays		-4,623

(1024)

P-1	Budget Request	Final Bill
60 JOINT PRECISION APPROACH AND LANDING SYSTEM	100,751	96,751
Support costs previously funded		-4,000
69 NETWORK TACTICAL COMMON DATA LINK	4,150	3,556
CDLS tech refresh contract award delay		-594
72 ITEMS LESS THAN \$5 MILLION	159,815	154,572
SPS-73 radar excess support costs		-1,523
SPS-73 installation previously funded		-3,720
73 SHIPBOARD TACTICAL COMMUNICATIONS	56,106	53,743
DMR IW and MUOS upgrade kits excess installation costs		-2,363
76 SUBMARINE BROADCAST SUPPORT	31,133	25,790
Previously funded item		-503
C4I for MILCON P-205 unjustified request		-3,487
Transmission equipment previously funded		-1,353
77 SUBMARINE COMMUNICATION EQUIPMENT	62,214	56,491
Submarine high data rate early to need		-5,723
79 NAVY MULTIBAND TERMINAL (NMT)	64,552	55,342
Afloat ship kit cost growth		-9,210
83 CRYPTOLOGIC COMMUNICATIONS EQUIP	15,906	14,845
Unit cost growth		-1,061
90 COAST GUARD EQUIPMENT	70,689	61,580
Combat system integration lifecycle engineering unjustified request		-2,197
Athena CCD integration unjustified growth		-5,748
C2P contract award delays		-1,164
92 SONOBUOYS - ALL TYPES	237,639	277,297
AN/SSQ-125 (multi-static coherent source) contract award delay		-10,342
Program increase - sonobuoys all types		50,000
94 WEAPONS RANGE SUPPORT EQUIPMENT	83,969	85,469
Program increase - TCTS restore capability		1,500
95 AIRCRAFT SUPPORT EQUIPMENT	187,758	176,438
MHU-126/202 TRLR replacement contract award delays		-1,637
Air launch and recovery equipment prior year carryover		-5,452
ADMARS block upgrade NRE previously funded		-4,231
101 AVIATION SUPPORT EQUIPMENT	58,873	57,174
Survival communications devices unjustified request		-11,699
Program increase - COTS-based advanced skills management for legacy systems upgrades		10,000

(0021)

P-1	Budget Request	Final Bill
102 UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL	60,937	40,070
ARC-210 radio communication system excess to need		-3,073
MUOS capable communication system excess to need		-3,019
MUOS capable communication system unit cost growth		-2,038
Ship change document excess growth		-1,837
CVN funding early to need		-10,900
104 HARPOON SUPPORT EQUIPMENT	208	0
Unjustified request		-208
105 SHIP MISSILE SUPPORT EQUIPMENT	262,077	250,356
MK57 mod 12-15 modernization previously funded		-1,202
SPY radar enhancements unjustified growth		-4,104
SPY radar refurbishment unjustified growth		-6,138
SSDS COTS conversion kits installation early to need		-277
106 TOMAHAWK SUPPORT EQUIPMENT	84,087	77,370
TTWCS product improvement previously funded		-3,112
TPMC hardware excess growth		-3,605
107 STRATEGIC MISSILE SYSTEMS EQUIP	258,910	251,683
SSI increment 16 refresh/redesign concurrency		-7,227
108 SSN COMBAT CONTROL SYSTEMS	173,770	162,167
Common weapon launcher upgrades excess to need		-11,603
109 ASW SUPPORT EQUIPMENT	26,584	23,511
High speed maneuverable surface target early to need		-3,073
112 ANTI-SHIP MISSILE DECOY SYSTEM	86,356	72,056
Advanced offboard/EW production ramp		-10,800
Advanced offboard/EW production support		-3,500
114 SURFACE TRAINING EQUIPMENT	192,245	168,730
LCS integrated tactics trainer modernization early to need		-9,000
SSC full mission trainers early to need		-14,515
116 GENERAL PURPOSE TRUCKS	2,693	0
Contract award delays		-2,693
117 CONSTRUCTION & MAINTENANCE EQUIP	47,301	42,510
Contract award delays		-7,791
Program increase - laser leveling systems for the Seabees		3,000
118 FIRE FIGHTING EQUIPMENT	10,352	5,352
Contract award delays		-5,000
122 ITEMS UNDER \$5 MILLION	47,972	44,272
Prior year carryover		-3,700

(1025)

P-1	Budget Request	Final Bill
128 TRAINING AND EDUCATION EQUIPMENT	73,454	66,376
West coast network consolidation unjustified request		-6,167
Arena scoreboard unjustified request		-455
Field house scoreboard unjustified request		-456
130 MEDICAL SUPPORT EQUIPMENT	974	12,974
Program increase - expeditionary medical facilities		12,000
132 NAVAL MIP SUPPORT EQUIPMENT	5,606	4,106
CR upgrade tools		-1,000
NAVAL MIP support equipment insufficient budget justification		-500
136 PHYSICAL SECURITY EQUIPMENT	138,281	136,693
Navy non-lethal effects excess to need		-1,588
140 NEXT GENERATION ENTERPRISE SERVICE	184,443	173,443
Prior year carryover		-11,000
141 CYBERSPACE ACTIVITIES	16,523	15,221
Deployable mission support systems kits excess cost growth		-1,302
142 SPARES AND REPAIR PARTS	374,195	357,893
Excess growth		-16,302

102K

MILITARY SPECIFICATIONS

In order to preserve and promote competition within the industrial base, the Secretary of the Navy is encouraged to include commercial-off-the-shelf products and technologies when periodically updating military specifications for ship support equipment and spare parts.

PROCUREMENT, MARINE CORPS

The agreement provides \$2,648,375,000 for Procurement, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~

Insert 104A-E

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT, MARINE CORPS		
WEAPONS AND COMBAT VEHICLES		
TRACKED COMBAT VEHICLES		
1	AAV7A1 PIP.....	87,476 87,476
2	AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES.....	478,874 436,805
3	LAV PIP.....	41,988 37,403
ARTILLERY AND OTHER WEAPONS		
4	155MM LIGHTWEIGHT TOWED HOWITZER.....	59 59
5	ARTILLERY WEAPONS SYSTEM.....	174,687 49,687
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION.....	24,867 38,306
OTHER SUPPORT		
7	MODIFICATION KITS.....	3,067 ---

	TOTAL, WEAPONS AND COMBAT VEHICLES.....	811,018 649,736
GUIDED MISSILES AND EQUIPMENT		
GUIDED MISSILES		
8	GROUND BASED AIR DEFENSE.....	18,920 17,686
9	ANTI-ARMOR MISSILE - JAVELIN.....	19,888 19,888
10	FAMILY OF ANTI-ARMOR WEAPON SYSTEMS.....	21,891 21,891
11	ANTI-ARMOR MISSILE - TOW.....	34,985 33,640
12	GUIDED MLRS ROCKET (GMLRS).....	133,689 133,689

	TOTAL, GUIDED MISSILES AND EQUIPMENT.....	229,373 226,794
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		
COMMAND AND CONTROL SYSTEMS		
13	COMMON AVIATION COMMAND AND CONTROL SYSTEM.....	35,057 35,057
REPAIR AND TEST EQUIPMENT		
14	REPAIR AND TEST EQUIPMENT.....	24,405 24,405
15	MODIFICATION KITS.....	1,006 1,006
OTHER SUPPORT (TEL)		
COMMAND AND CONTROL		
16	ITEMS UNDER \$5 MILLION (COMM & ELEC).....	69,725 69,725
17	AIR OPERATIONS C2 SYSTEMS.....	15,611 8,241
RADAR + EQUIPMENT (NON-TEL)		
19	GROUND/AIR TASK ORIENTED RADAR.....	284,283 276,673
INTELL/COMM EQUIPMENT (NON-TEL)		
20	GCSS-MC.....	1,587 1,587
21	FIRE SUPPORT SYSTEM.....	24,934 24,934

(104A)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
22 INTELLIGENCE SUPPORT EQUIPMENT.....	50,728	48,763
24 UNMANNED AIR SYSTEMS.....	24,853	20,889
25 DCGS-MC.....	38,260	37,510
26 UAS PAYLOADS.....	5,489	5,489
OTHER SUPPORT (NON-TEL)		
29 NEXT GENERATION ENTERPRISE SERVICE.....	78,922	71,612
30 COMMON COMPUTER RESOURCES.....	35,349	33,349
31 COMMAND POST SYSTEMS.....	33,713	26,993
32 RADIO SYSTEMS.....	343,250	340,333
33 COMM SWITCHING & CONTROL SYSTEMS.....	40,627	30,892
34 COMM & ELEC INFRASTRUCTURE SUPPORT.....	43,782	43,782
35 CYBERSPACE ACTIVITIES.....	53,896	43,985
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.	1,205,477	1,145,225
SUPPORT VEHICLES		
ADMINISTRATIVE VEHICLES		
37 COMMERCIAL CARGO VEHICLES.....	22,460	22,460
TACTICAL VEHICLES		
38 MOTOR TRANSPORT MODIFICATIONS.....	10,739	10,739
39 JOINT LIGHT TACTICAL VEHICLE.....	381,675	368,675
40 FAMILY OF TACTICAL TRAILERS.....	2,963	2,963
TOTAL, SUPPORT VEHICLES.....	417,837	404,837
ENGINEER AND OTHER EQUIPMENT		
ENGINEER AND OTHER EQUIPMENT		
42 ENVIRONMENTAL CONTROL EQUIP ASSORTED.....	385	385
43 TACTICAL FUEL SYSTEMS.....	501	501
44 POWER EQUIPMENT ASSORTED.....	23,430	23,430
45 AMPHIBIOUS SUPPORT EQUIPMENT.....	5,752	5,752
46 EOD SYSTEMS.....	20,939	17,349
MATERIALS HANDLING EQUIPMENT		
47 PHYSICAL SECURITY EQUIPMENT.....	23,063	23,063
GENERAL PROPERTY		
48 FIELD MEDICAL EQUIPMENT.....	4,187	4,187
49 TRAINING DEVICES.....	101,765	83,867
50 FAMILY OF CONSTRUCTION EQUIPMENT.....	19,305	22,305

104B

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
51 ULTRA-LIGHT TACTICAL VEHICLE.....	678	678
52 OTHER SUPPORT ITEMS LESS THAN \$5 MILLION.....	9,174	9,174
TOTAL, ENGINEER AND OTHER EQUIPMENT.....	209,179	190,691
53 SPARES AND REPAIR PARTS.....	27,295	27,295
CLASSIFIED PROGRAMS.....	3,797	3,797
TOTAL, PROCUREMENT, MARINE CORPS.....	2,903,976	2,648,375

104C

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES	478,874	436,805
Surface vehicle cost prior year carryover		-7,347
System engineering program management previously funded		-8,862
Production support previously funded		-1,713
Peculiar training equipment and simulators previously funded		-2,550
ILS excess growth		-10,460
Engineering change orders excess growth		-11,137
3 LAV PIP	41,988	37,403
Intercom unit cost growth		-4,585
5 ARTILLERY WEAPONS SYSTEM	174,687	49,687
Missiles excess to need		-125,000
6 WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION	24,867	38,306
RHGPK production units previously funded and cost growth		-1,861
Program increase - reconnaissance weapon system		5,300
Program increase - rifle squad suppressor		10,000
7 MODIFICATION KITS	3,067	0
Marine Corps identified excess to need		-3,067
8 GROUND BASED AIR DEFENSE	18,920	17,686
Support costs previously funded		-1,234
11 ANTI-ARMOR MISSILE - TOW	34,985	33,640
Missile cost prior year carryover		-1,345
17 AIR OPERATIONS C2 SYSTEMS	15,611	8,241
CTN CAB-E antenna procurement previously funded		-4,580
CTN CAB-E initial issue provisioning excess to need		-2,790
19 GROUND/AIR TASK ORIENTED RADAR	284,283	276,673
Radar decoys unjustified request		-1,210
Undistributed reduction		-6,400
22 INTELLIGENCE SUPPORT EQUIPMENT	50,728	48,763
SCI comms fielding and initial support early to need		-1,965
24 UNMANNED AIR SYSTEMS	24,853	20,889
Long range/long endurance unjustified request		-6,964
Program increase - short range/short endurance VTOL		3,000
25 DCGS-MC	38,260	37,510
Software previously funded		-750

P-1	Budget Request	Final Bill
29 NEXT GENERATION ENTERPRISE SERVICE	78,922	71,612
Network equipment tech refresh previously funded		-4,799
Enterprise infrastructure modernization previously funded		-2,511
30 COMMON COMPUTER RESOURCES	35,349	33,349
Marine Corps wargaming capability forward financed		-2,000
31 COMMAND POST SYSTEMS	33,713	26,993
NOTM utility task vehicle unjustified request		-6,720
32 RADIO SYSTEMS	343,250	340,333
Ancillary and accessory components forward financed		-2,917
33 COMM SWITCHING & CONTROL SYSTEMS	40,627	30,892
ECP network equipment excess growth		-9,735
35 CYBERSPACE ACTIVITIES	53,896	43,985
Robust infrastructure excess growth		-11,911
Program increase - advanced cyber threat detection capabilities		2,000
39 JOINT LIGHT TACTICAL VEHICLE	381,675	368,675
Prior year carryover		-13,000
46 EOD SYSTEMS	20,939	17,349
PM acquisition support excess growth		-3,590
49 TRAINING DEVICES	101,765	83,867
Force on force training systems production carryover		-11,898
Ranges and training area management early to need		-6,000
50 FAMILY OF CONSTRUCTION EQUIPMENT	19,305	22,305
Program increase - laser leveling systems		3,000

(104E)

AIRCRAFT PROCUREMENT, AIR FORCE

The agreement provides \$19,212,753,000 for Aircraft Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 105A-G

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, AIR FORCE		
COMBAT AIRCRAFT TACTICAL FORCES		
1	F-35.....	4,567,018 5,606,799
2	F-35 (AP-CY).....	610,800 610,800
4	F-15EX.....	1,269,847 1,233,647
5	F-15EX (AP-CY).....	133,500 133,500
	TOTAL, COMBAT AIRCRAFT.....	6,581,165 7,584,746

AIRLIFT AIRCRAFT/TACTICAL AIRLIFT		
7	KC-46A TANKER.....	2,850,151 2,665,299
OTHER AIRLIFT		
8	C-130J.....	37,131 797,131
10	MC-130J.....	362,807 355,107
11	MC-130J (AP).....	39,987 30,000
	TOTAL, AIRLIFT AIRCRAFT.....	3,290,076 3,847,537

OTHER AIRCRAFT HELICOPTERS		
12	UH-1N REPLACEMENT.....	194,016 194,016
13	COMBAT RESCUE HELICOPTER.....	973,473 909,909
13A	CV-22.....	--- 206,220
MISSION SUPPORT AIRCRAFT		
15	CIVIL AIR PATROL A/C.....	2,811 11,200
OTHER AIRCRAFT		
16	TARGET DRONES.....	133,273 133,273
18	COMPASS CALL.....	161,117 159,867
20	MQ-9.....	29,409 ---
	E-11.....	--- 63,419
	TOTAL, OTHER AIRCRAFT.....	1,494,099 1,677,904

MODIFICATION OF INSERVICE AIRCRAFT STRATEGIC AIRCRAFT		
22	B-1.....	3,853 ---
23	B-2A.....	31,476 30,819
24	B-1B.....	21,808 21,808
25	B-52.....	53,949 27,279
26	LARGE AIRCRAFT INFRARED COUNTERMEASURES.....	9,999 9,999

105A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

TACTICAL AIRCRAFT		
27	A-10.....	135,793 135,793
28	E-11 BACN/HAG.....	33,645 29,645
29	F-15.....	349,304 203,910
30	F-16.....	615,760 622,593
32	F-22A.....	387,905 357,586
33	F-35 MODIFICATIONS.....	322,185 295,832
34	F-15 EPAW.....	31,995 ---
35	INCREMENT 3.2b.....	5,889 5,889
36	KC-46A MODS.....	24,085 4,085
AIRLIFT AIRCRAFT		
37	C-5.....	62,108 50,279
38	C-17A.....	66,798 44,798
40	C-32A.....	2,947 2,947
41	C-37A.....	12,985 12,985
TRAINER AIRCRAFT		
42	GLIDER MODS.....	977 977
43	T6.....	26,829 23,929
44	T-1.....	4,465 4,465
45	T-38.....	36,806 40,806
OTHER AIRCRAFT		
46	U-2 MODS.....	110,618 110,618
47	KC-10A (ATCA).....	117 117
49	VC-25A MOD.....	1,983 1,983
50	C-40.....	9,252 7,252
51	C-130.....	5,871 265,580
52	C130J MODS.....	140,032 136,632
53	C-135.....	88,250 82,350
55	COMPASS CALL MODS.....	193,389 169,683
57	RC-135.....	191,332 191,332
58	E-3.....	172,141 118,068
59	E-4.....	58,803 44,140
60	E-8.....	11,037 22,037
60	AIRBORNE WARNING AND CONTROL SYSTEM.....	53,343 53,343

105B

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
62 FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS.....	1,573	1,573
63 H-1.....	4,410	4,410
64 H-60.....	44,538	34,728
65 RQ-4 UAV MODS.....	40,468	3,350
66 HC/MC-130 MODIFICATIONS.....	20,780	20,780
67 OTHER AIRCRAFT.....	100,774	100,774
68 MQ-9 MODS.....	188,387	155,011
70 CV-22 MODS.....	122,306	113,106
TOTAL, MODIFICATION OF INSERVICE AIRCRAFT.....	3,800,965	3,563,291
AIRCRAFT SPARES AND REPAIR PARTS		
71 INITIAL SPARES/REPAIR PARTS.....	926,683	907,949
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		
COMMON SUPPORT EQUIPMENT		
73 AIRCRAFT REPLACEMENT SUPPORT EQUIP.....	132,719	123,869
POST PRODUCTION SUPPORT		
74 B-2A.....	1,683	1,683
75 B-2B.....	46,734	37,310
76 B-52.....	1,034	1,034
79 E-11 BACN/HAG.....	63,419	---
80 F-15.....	2,632	2,632
81 F-16 POST PRODUCTION SUPPORT.....	14,163	14,163
83 OTHER AIRCRAFT.....	4,595	4,595
84 RQ-4 POST PRODUCTION CHARGES.....	32,585	1,750
INDUSTRIAL PREPAREDNESS		
85 INDUSTRIAL PREPAREDNESS.....	18,215	18,215
WAR CONSUMABLES		
86 WAR CONSUMABLES.....	36,046	32,046
OTHER PRODUCTION CHARGES		
87 OTHER PRODUCTION CHARGES.....	1,439,640	1,372,337
TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	1,793,465	1,609,634
CLASSIFIED PROGRAMS.....	21,692	21,692
TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE.....	17,908,145	19,212,753

(105C)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 F-35	4,567,018	5,606,799
Program increase - twelve aircraft		1,129,000
Program increase - depot standup acceleration		167,900
Prior-year credit adjustment excess to need		-156,000
Unit cost adjustment		-101,119
4 F-15EX	1,269,847	1,233,647
Unit cost adjustment		-36,200
7 KC-46	2,850,151	2,665,299
ECO excess to need		-142,352
Depot standup activities forward financing		-42,500
8 C-130J	37,131	797,131
Program increase - two aircraft only for the Air Force Reserve		190,000
Program increase - six aircraft only for the Air National Guard		570,000
10 MC-130J	362,807	355,107
Air Force identified excess to need		-7,700
11 MC-130J (AP)	39,987	30,000
Excess to need		-9,987
13 COMBAT RESCUE HELICOPTER	973,473	909,909
Modernization/upgrades ahead of need		-63,564
13A CV-22	0	206,220
Program increase - two aircraft		206,220
15 CIVIL AIR PATROL	2,811	11,200
Program increase		8,389
18 COMPASS CALL	161,117	159,867
PMA funded in mods line		-1,250
20 MQ-9	29,409	0
Production line shutdown ahead of need		-29,409
20A E-11	0	63,419
Air Force requested transfer from line 79		63,419
22 B-1	3,853	0
CITS unjustified request		-3,853
23 B-2	31,476	30,819
LOSSM PMA unjustified		-657

(105D)

P-1	Budget Request	Final Bill
25 B-52	53,949	27,279
Bomber TDL installation funding ahead of need		-2,000
Bomber TDL kit rephasing		-12,813
GPS-IU funding ahead of need		-11,857
28 E-11 BACN/HAG	33,645	29,645
Survivability kits - one excess to need		-4,000
29 F-15	349,304	203,910
APG-82 common configuration excess to need		-12,012
MUOS ahead of need		-8,050
APG-82(V)1 carryover		-101,000
APG-82(V)1 other government costs excess to need		-12,094
Overestimation of APG-82(V)1 installation costs		-10,728
F-15C APG-63(V)3 common configuration requirement rescinded		-1,510
30 F-16	615,760	622,593
Comm Suite Upgrade forward financing		-43,000
AIFF Mode 5 - Air Force requested transfer to RDTE,AF line 187		-9,868
Program increase - AESA radars for Air National Guard aircraft		75,000
ALR-69A undefinitized acquisition strategy		-12,000
AESA unit cost		-3,299
32 F-22A	387,905	357,586
Sensor enhancement insufficient justification		-6,597
Crypto mod installation funding excess to need		-3,115
RAMP excess to need		-20,607
33 F-35 MODIFICATIONS	322,185	295,832
Program increase - reliability and maintainability improvement program		20,000
Correction of deficiencies ICS overestimation		-27,836
DTIP kits carryover		-12,000
DTIP B-kits unit cost adjustment		-6,517
34 F-15 EPAWSS	31,995	0
EPAWSS development delays		-31,995
36 KC-46 MODS	24,085	4,085
Ahead of need		-20,000
37 C-5	62,108	50,279
CMC Wx radar installation delays		-6,098
Air Force-identified CNS/ATM excess to need		-2,131
CNS/ATM advisory services unjustified growth		-3,600
38 C-17	66,798	44,798
BLOS program delay		-22,000
43 T-6	26,829	23,929
Other government costs unjustified		-2,900

(105E)

P-1	Budget Request	Final Bill
45 T-38	36,806	40,806
TRIM kit installations ahead of need		-1,000
Program increase - T-38 ejection seat upgrade		5,000
50 C-40	9,252	7,252
Wideband SATCOM install funding ahead of need		-2,000
51 C-130	5,871	265,580
Program increase - engine enhancement program		79,000
Program increase - [eight blade] propeller upgrade		180,000
Program increase - modular airborne firefighting system		4,600
AMP 1 excess to need		-3,841
AMP 2 ahead of need		-50
52 C-130J MODS	140,032	136,632
Block 8.1 OGC forward financing		-3,400
53 C-135	88,250	82,350
RPI forward financing		-5,900
55 COMPASS CALL MODS	193,389	169,683
Mission crew simulator ahead of need		-15,000
Baseline 3 installation delays		-8,706
58 E-3	172,141	118,068
NATO AWACS - Air Force requested transfer to line 87		-36,401
IPEC B-kit NRE unjustified growth		-6,593
IPEC change orders unjustified growth		-5,579
Overestimation of DRAGON installation costs		-5,500
59 E-4	58,803	44,140
Survivable SHF ahead of need		-14,663
60 E-8	11,037	22,037
Program increase - JSTARS		11,000
64 H-60	44,538	34,728
DVE kits ahead of need		-9,810
65 RQ-4 MODS	40,468	3,350
Mod funding unjustified		-26,118
Communication/interoperability enhancements		-9,000
ASIP SW/HW upgrades and support forward financed		-2,000
68 MQ-9 MODS	188,387	155,011
GCS block 30 A and B kits unjustified		-3,376
MQ-9 upgrade other government costs growth		-30,000

(105F)

P-1	Budget Request	Final Bill
70 CV-22 MODS	122,306	113,106
Nacelle improvements concurrency		-9,200
71 INITIAL SPARES/REPAIR PARTS	926,683	907,949
F-15 EPAWSS spares ahead of need		-8,044
F-16 digital RWR carryover		-3,535
F-16 AIFF Mode 5 excess to need		-1,003
F-16 Auto GCAS forward financing		-1,906
AWACS ahead of need		-14,246
Program increase - F-35 spares		10,000
73 AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT	132,719	123,869
BAT milestone C delay		-6,600
ARTS ICS unjustified growth		-1,250
Aircraft engine trailers unjustified growth		-1,000
75 B-2B	46,734	37,310
Unjustified support costs		-9,424
79 E-11 BACN/HAG	63,419	0
Air Force requested transfer to line 20A		-63,419
84 RQ-4	32,585	1,750
GSMP development delays		-7,330
MS-177 ICS forward financed		-23,505
86 WAR CONSUMABLES	36,046	32,046
Prior year carryover		-4,000
87 OTHER PRODUCTION CHARGES	1,439,640	1,372,337
NATO AWACS - Air Force requested transfer from line 58		36,401
Air Force-identified CNS/ATM excess to need		-9,304
EW POD forward financing		-12,500
F-15 depot standup forward financing		-7,200
F-15 EPAWSS depot standup ahead of need		-37,000
Classified adjustment		-37,700

1054

C-130 FLEET MANAGEMENT PLAN AND MODERNIZATION ROADMAP

The Secretary of the Air Force is directed to submit a report to the congressional defense committees, not later than 60 days after the submission of the fiscal year 2022 budget request, which provides a C-130 fleet management plan and modernization roadmap. The report shall include an analysis of the theater and domestic airlift requirements of the National Defense Strategy, the number of C-130 aircraft needed to fulfill those requirements, justification for any planned or proposed reduction in fleet size, and the extent to which these requirements need to be refined by further study and analysis. The report shall also provide, through the entire future years defense program (FYDP), the current and projected C-130 total active aerospace vehicle inventory and backup aerospace vehicle inventory by unit and variant, including aircraft in attrition reserve. Further, the report shall describe modernization and recapitalization plans for C-130 aircraft through the FYDP, along with funding requirements by appropriation and budget line item. Finally, to the extent that the Air Force plans or proposes to reduce aircraft inventory from fiscal year 2021 through the end of the fiscal year 2022 FYDP, the report shall describe plans to modify proficiency training or deployment requirements for affected units to account for planned or proposed reduction in the number of aircraft assigned to those units. This language replaces the language under the heading “C-130 Fleet Management Plan” in House Report 116-453.

LC-130H

The Secretary of the Air Force is directed to submit a report to the congressional defense committees on LC-130H aircraft not later than 90 days after the enactment of this Act. The report shall include information on the age and estimated service life of the

aircraft, trends in operating costs and mission capable rate, known sustainment and safety problems, the benefits of both completed and planned aircraft modifications, and an estimate of the cost of replacing these aircraft with C-130Js, including the cost of the required unique mission modifications. Further, the report shall be submitted with comments from the Chief of the National Guard Bureau to include, at minimum, an analysis of current LC-130H fleet force structure and capabilities requirements and an itemized list of unfunded recapitalization and modernization requirements. This language replaces the language under the heading "LC-130H Aircraft" in House Report 116-453.

MISSILE PROCUREMENT, AIR FORCE

The agreement provides \$2,142,181,000 for Missile Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

INSERT: 108A-C

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MISSILE PROCUREMENT, AIR FORCE		
BALLISTIC MISSILES		
MISSILE REPLACEMENT EQUIPMENT - BALLISTIC		
1	MISSILE REPLACEMENT EQ-BALLISTIC.....	75,012 73,474
OTHER MISSILES		
TACTICAL		
2	REPLAC EQUIP & WAR CONSUMABLES.....	4,495 4,495
4	JOINT AIR-SURFACE STANDOFF MISSILE (JASSM).....	475,949 470,009
5	LONG RANGE ANTI-SHIP MISSILE (LRASMO).....	19,800 19,800
6	SIDEWINDER (AIM-9X).....	164,769 164,769
7	AMRAAM.....	453,223 313,223
8	PREDATOR HELLFIRE MISSILE.....	40,129 40,129
9	SMALL DIAMETER BOMB.....	45,475 45,475
10	SMALL DIAMETER BOMB II.....	273,272 209,972
INDUSTRIAL FACILITIES		
11	INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION.....	814 814

	TOTAL, OTHER MISSILES.....	1,477,926 1,268,686
MODIFICATION OF INSERVICE MISSILES		
CLASS IV		
13	ICBM FUZE MOD.....	3,458 ---
14	ICBM FUZE MOD.....	43,450 43,450
15	MM III MODIFICATIONS.....	85,310 81,137
16	AGM-65D MAVERICK.....	298 298
17	AIR LAUNCH CRUISE MISSILE.....	52,924 52,924

	TOTAL, MODIFICATION OF INSERVICE MISSILES.....	185,440 177,809
SPARES AND REPAIR PARTS		
18	INITIAL SPARES/REPAIR PARTS.....	9,402 13,575
19	REPLEN SPARES/REPAIR PARTS.....	84,671 84,671

	TOTAL, SPARES AND REPAIR PARTS.....	94,073 98,246

108A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

SPECIAL PROGRAMS		
23 SPECIAL UPDATE PROGRAMS.....	23,501	23,501
CLASSIFIED PROGRAMS.....	540,465	500,465
	-----	-----
TOTAL, SPECIAL PROGRAMS.....	563,966	523,966
	=====	=====
TOTAL, MISSILE PROCUREMENT, AIR FORCE.....	2,396,417	2,142,181
	=====	=====

108B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[in thousands of dollars]

P-1		Budget Request	Final Bill
1	MISSILE REPLACEMENT EQUIPMENT-BALLISTIC	75,012	73,474
	PIGA/G6B4 ahead of need		-1,538
4	JASSM	475,949	470,009
	AGM-158D pricing adjustment		-5,940
7	AMRAAM	453,223	313,223
	Contract delays		-69,000
	AUR unit cost growth		-1,300
	F3R schedule delay		-69,700
10	SMALL DIAMETER BOMB II	273,272	209,972
	Container unit cost growth		-2,400
	AUR unit cost adjustment		-60,900
13	ICBM FUZE MOD	3,458	0
	Recurring procurement excess to need		-3,458
15	MINUTEMAN III MODIFICATIONS	85,310	81,137
	Initial spares - Air Force requested transfer to line 18		-4,173
18	MISSILE SPARES / REPAIR PARTS	9,402	13,575
	Initial spares - Air Force requested transfer from line 15		4,173
999	CLASSIFIED PROGRAMS	540,465	500,465
	Classified adjustment		-40,000

108C

PROCUREMENT OF AMMUNITION, AIR FORCE

The agreement provides \$550,844,000 for Procurement of Ammunition, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

Insert 109A-B

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMUNITION, AIR FORCE		
PROCUREMENT OF AMMO, AIR FORCE		
1	ROCKETS.....	14,962 14,962
2	CARTRIDGES.....	123,365 117,365
BOMBS		
3	PRACTICE BOMBS.....	59,725 34,313
6	JOINT DIRECT ATTACK MUNITION.....	206,989 221,989
7	B61.....	35,634 35,634
9	CAD/PAD.....	47,830 47,830
10	EXPLOSIVE ORDNANCE DISPOSAL (EOD).....	6,232 6,232
11	SPARES AND REPAIR PARTS.....	542 542
12	MODIFICATIONS.....	1,310 1,310
13	ITEMS LESS THAN \$5,000,000.....	4,753 4,753
FLARES/FUZES		
15	FLARES.....	40,088 40,088
16	FUZES.....	40,983 11,901

TOTAL, PROCUREMENT OF AMMO, AIR FORCE.....		582,413 536,919
WEAPONS		
17	SMALL ARMS.....	13,925 13,925
=====		
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE.....		596,338 550,844
=====		

109A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 CARTRIDGES BBU-48 early to need	123,365	117,365 -6,000
3 PRACTICE BOMBS Unjustified growth	59,725	34,313 -25,412
6 JOINT DIRECT ATTACK MUNITION Program increase - JDAM laser kits	206,989	221,989 15,000
16 FUZES Program decrease FMU-139D/B excess	40,983	11,901 -27,000 -2,082

(109B)

OTHER PROCUREMENT, AIR FORCE

The agreement provides \$23,441,648,000 for Other Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

Insert 110A-E

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OTHER PROCUREMENT, AIR FORCE		
VEHICULAR EQUIPMENT		
PASSENGER CARRYING VEHICLES		
1	PASSENGER CARRYING VEHICLE.....	9,016 9,016
CARGO + UTILITY VEHICLES		
2	FAMILY MEDIUM TACTICAL VEHICLE.....	15,058 15,058
3	CAP VEHICLES.....	1,059 1,800
4	ITEMS LESS THAN \$5M (CARGO AND UTILITY VEHICLES)..	38,920 37,620
SPECIAL PURPOSE VEHICLES		
5	JOINT LIGHT TACTICAL VEHICLE.....	30,544 30,544
6	SECURITY AND TACTICAL VEHICLES.....	319 319
7	ITEMS LESS THAN \$5M (SPECIAL PURPOSE VEHICLES)....	43,157 43,157
FIRE FIGHTING EQUIPMENT		
8	FIRE FIGHTING/CRASH RESCUE VEHICLES.....	8,621 8,621
MATERIALS HANDLING EQUIPMENT		
9	ITEMS LESS THAT \$5M (MATERIALS HANDLING EQUIPMENT)	12,897 12,897
BASE MAINTENANCE SUPPORT		
10	RUNWAY SNOW REMOVAL & CLEANING EQUIP.....	3,577 3,577
11	ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT VEHICLES).....	43,095 43,095
	TOTAL, VEHICULAR EQUIPMENT.....	206,263 205,704

ELECTRONICS AND TELECOMMUNICATIONS EQUIP		
COMM SECURITY EQUIPMENT(COMSEC)		
13	COMSEC EQUIPMENT.....	54,864 54,864
INTELLIGENCE PROGRAMS		
14	INTERNATIONAL INTEL TECH AND ARCHITECTURES.....	9,283 10,783
15	INTELLIGENCE TRAINING EQUIPMENT.....	6,849 6,349
16	INTELLIGENCE COMM EQUIP.....	33,471 31,771
ELECTRONICS PROGRAMS		
17	TRAFFIC CONTROL/LANDING.....	29,409 25,842
18	BATTLE CONTROL SYSTEM - FIXED.....	7,909 7,909
19	THEATER AIR CONTROL SYS IMPRO.....	32,632 32,632
20	WEATHER OBSERVATION FORECAST.....	33,021 33,021
21	STRATEGIC COMMAND AND CONTROL.....	31,353 28,407
22	CHEYENNE MOUNTAIN COMPLEX.....	10,314 8,199
23	MISSION PLANNING SYSTEMS.....	15,132 15,132

110A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
25 INTEGRATED STRAT PLAN AND ANALY NETWORK (ISPAN)...	9,806	9,806
SPECIAL COMM-ELECTRONICS PROJECTS		
26 GENERAL INFORMATION TECHNOLOGY.....	39,887	36,700
27 AF GLOBAL COMMAND & CONTROL SYSTEM.....	2,602	2,602
29 MOBILITY COMMAND AND CONTROL.....	10,541	10,541
30 AIR FORCE PHYSICAL SECURITY SYSTEM.....	96,277	85,277
31 COMBAT TRAINING RANGES.....	195,185	193,185
32 MINIMUM ESSENTIAL EMERGENCY COMM N.....	29,664	21,664
33 WIDE AREA SURVEILLANCE (WAS).....	59,633	47,538
34 C3 COUNTERMEASURES.....	105,584	100,084
36 DEFENSE ENTERPRISE ACCOUNTING AND MGMT.....	899	899
38 THEATER BATTLE MGT C2 SYS.....	3,392	3,392
39 AIR AND SPACE OPERATIONS CTR-WPN SYSTEM.....	24,983	15,383
AIR FORCE COMMUNICATIONS		
41 INFORMATION TRANSPORT SYSTEMS.....	19,147	19,147
42 AFNET.....	84,515	84,515
43 JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE).....	6,185	6,185
44 USCENTCOM.....	19,649	19,649
45 USSTRATCOM.....	4,337	4,337
ORGANIZATION AND BASE		
46 TACTICAL C-E EQUIPMENT.....	137,033	132,733
47 RADIO EQUIPMENT.....	15,264	15,264
49 BASE COMM INFRASTRUCTURE.....	132,281	169,208
MODIFICATIONS		
50 COMM ELECT MODS.....	21,471	21,471
TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP.	1,282,572	1,254,489
OTHER BASE MAINTENANCE AND SUPPORT EQUIP		
51 PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000,000 (SAFETY).....	49,578	49,578
DEPOT PLANT + MATERIALS HANDLING EQ		
52 POWER CONDITIONING EQUIPMENT.....	11,454	11,454
53 MECHANIZED MATERIAL HANDLING.....	12,110	12,110
BASE SUPPORT EQUIPMENT		
54 BASE PROCURED EQUIPMENT.....	21,142	27,342

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
55 ENGINEERING AND EOD EQUIPMENT.....	7,700	7,700
56 MOBILITY EQUIPMENT.....	18,266	18,266
57 FUELS SUPPORT EQUIPMENT (FSE).....	9,601	9,601
58 ITEMS LESS THAN \$5M (BASE SUPPORT).....	42,078	42,078
SPECIAL SUPPORT PROJECTS		
60 DARP RC135.....	27,164	27,164
61 DISTRIBUTED GROUND SYSTEMS.....	121,528	121,528
63 SPECIAL UPDATE PROGRAM.....	782,641	731,941
TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP.	1,103,262	1,058,762
SPARE AND REPAIR PARTS		
64 SPARES AND REPAIR PARTS (CYBER).....	1,664	1,664
65 SPARES AND REPAIR PARTS.....	15,847	15,847
CLASSIFIED PROGRAMS.....	21,086,112	20,905,182
TOTAL, OTHER PROCUREMENT, AIR FORCE.....	23,695,720	23,441,648

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
3 CAP VEHICLES	1,059	1,800
Program increase		741
4 CARGO AND UTILITY VEHICLES	38,920	37,620
Unit cost growth		-1,300
14 INTERNATIONAL INTEL TECH & ARCHITECTURES	9,283	10,783
Program increase - PDI-Mission Partner Environment BICES-X		1,500
15 INTELLIGENCE TRAINING EQUIPMENT	6,849	6,349
Poor justification materials		-500
16 INTELLIGENCE COMM EQUIPMENT	33,471	31,771
IMAD acquisition strategy		-1,700
17 AIR TRAFFIC CONTROL & LANDING SYSTEMS	29,409	25,842
DARC excess to need		-3,567
21 STRATEGIC COMMAND AND CONTROL	31,353	28,407
JADC2 procurement growth unjustified		-2,946
22 CHEYENNE MOUNTAIN COMPLEX	10,314	8,199
Transfer to P,SF line 17		-2,115
26 GENERAL INFORMATION TECHNOLOGY	39,887	36,700
LOGIT		-391
Unjustified communications and IT request		-2,796
30 AIR FORCE PHYSICAL SECURITY SYSTEM	96,277	85,277
Prior year carryover		-11,000
31 COMBAT TRAINING RANGES	195,185	193,185
Forward financing		-2,000
32 MEECN	29,664	21,664
Production funding excess to need		-8,000
33 WIDE AREA SURVEILLANCE	59,633	47,538
Air Force requested transfer to RDTE,AF line 182		-4,795
Forward financing		-7,300
34 C3 COUNTERMEASURES	105,584	100,084
Unit cost growth		-5,500
39 AIR AND SPACE OPERATIONS CENTER (AOC)	24,983	15,383
Excess to need		-6,000
Maintain level of effort		-3,600
46 TACTICAL C-E EQUIPMENT	137,033	132,733
Test benches		-4,300

1100

P-1	Budget Request	Final Bill
49 BASE COMM INFRASTRUCTURE Program increase - PDI-Mission Partner Environment PACNET Air Force requested transfer from OM,AF SAG 21D	132,281	169,208 14,000 22,927
54 BASE PROCURED EQUIPMENT Program increase - laboratory equipment	21,142	27,342 6,200
63 SPECIAL UPDATE PROGRAM Classified adjustment	782,641	731,941 -50,700
999 CLASSIFIED PROGRAMS Classified adjustment	21,086,112	20,905,182 -180,930

PROCUREMENT, SPACE FORCE

The agreement provides \$2,310,994,000 for Procurement, Space Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert IIIA-B

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT, SPACE FORCE		
SPACE PROGRAMS		
1	ADVANCED EHF.....	14,823 7,823
2	AF SATELLITE COMM SYSTEM.....	48,326 53,326
3	COUNTERSPACE SYSTEMS.....	65,540 49,155
4	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS.....	66,190 61,190
5	GENERAL INFORMATION TECH - SPACE.....	3,299 3,299
6	GPSIII FOLLOW ON.....	627,796 597,796
7	GPS III SPACE SEGMENT.....	20,122 20,122
8	GLOBAL POSITIONING (SPACE).....	2,256 2,256
9	SPACEBORNE EQUIP (COMSEC).....	35,495 35,495
10	MILSATCOM.....	15,795 15,795
11	SBIR HIGH (SPACE).....	160,891 145,891
12	SPECIAL SPACE ACTIVITIES.....	78,387 78,387
13	NATIONAL SECURITY SPACE LAUNCH.....	1,043,171 996,371
14	NUDET DETECTION SYSTEM.....	6,638 6,638
15	ROCKET SYSTEMS LAUNCH PROGRAM.....	47,741 47,741
16	SPACE FENCE.....	11,279 11,279
17	SPACE MODS.....	96,551 86,666
18	SPACELIFT RANGE SYSTEM SPACE.....	100,492 90,492
19	SPARES AND REPAIR PARTS.....	1,272 1,272
	-----	-----
	TOTAL, PROCUREMENT, SPACE FORCE.....	2,446,064 2,310,994
	=====	=====

111A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 ADVANCED EHF	14,823	7,823
Technical mission analysis unjustified growth		-2,000
Prior year carryover		-5,000
2 AF SATELLITE COMM SYSTEM	48,326	53,326
Program increase - cyber defense		5,000
3 COUNTERSPACE SYSTEMS	65,540	49,155
CCS procurement early to need		-16,385
4 FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS	66,190	61,190
Insufficient justification		-5,000
6 GPSIII FOLLOW ON	627,796	597,796
Excess to need		-30,000
11 SBIR HIGH (SPACE)	160,891	145,891
S2E2 undefined strategy		-15,000
13 NATIONAL SECURITY SPACE LAUNCH	1,043,171	996,371
Contract savings		-46,800
17 SPACE MODS	96,551	86,666
Transfer from OP,AF line 22		2,115
Unjustified request		-12,000
18 SPACELIFT RANGE SYSTEM SPACE	100,492	90,492
Underexecution		-10,000

111B

NATIONAL SECURITY SPACE LAUNCH

The Secretary of Defense and the Director of National Intelligence are directed to utilize the Space Force launch enterprise for National Security Space Launch-class missions unless the Secretary of Defense and, if appropriate, the Director of National Intelligence certify to the congressional defense and intelligence committees that an alternative launch procurement approach for a designated mission is in the national security interest and best financial interest of the government and outline the cost analysis and any other rationale for such a determination.

PROCUREMENT, DEFENSE-WIDE

The agreement provides \$5,837,347,000 for Procurement, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~ e

insert 113A-E

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT, DEFENSE-WIDE		
	MAJOR EQUIPMENT	
	MAJOR EQUIPMENT, DCAA	
	MAJOR EQUIPMENT, DCMA	
2	MAJOR EQUIPMENT.....	1,398 1,398
	MAJOR EQUIPMENT, DCSA	
3	MAJOR EQUIPMENT.....	2,212 2,212
	MAJOR EQUIPMENT, DHRA	
5	PERSONNEL ADMINISTRATION.....	4,213 4,213
	MAJOR EQUIPMENT, DISA	
11	INFORMATION SYSTEMS SECURITY.....	17,211 17,211
12	TELEPORT PROGRAM.....	29,841 29,841
13	JOINT FORCES HEADQUARTERS - DODIN.....	3,091 3,091
14	ITEMS LESS THAN \$5M.....	41,569 41,569
16	DEFENSE INFORMATION SYSTEMS NETWORK.....	26,978 26,978
17	WHITE HOUSE COMMUNICATION AGENCY.....	44,161 44,161
18	SENIOR LEADERSHIP ENTERPRISE.....	35,935 35,935
19	JOINT REGIONAL SECURITY STACKS (JRSS).....	88,741 88,741
20	JOINT SERVICE PROVIDER.....	157,538 157,538
21	FOURTH ESTATE NETWORK OPTIMIZATION (4ENO).....	42,084 41,084
	MAJOR EQUIPMENT, DLA	
23	MAJOR EQUIPMENT.....	417,459 390,459
	MAJOR EQUIPMENT, DMACT	
24	MAJOR EQUIPMENT.....	7,993 7,993
	MAJOR EQUIPMENT, DODEA	
25	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS.....	1,319 1,319
	MAJOR EQUIPMENT, DPAA	
26	MAJOR EQUIPMENT, DPAA.....	500 500
	MAJOR EQUIPMENT, DSS	
27	REGIONAL CENTER PROCUREMENT.....	1,598 1,598
	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY	
28	VEHICLES.....	215 215
29	OTHER MAJOR EQUIPMENT.....	9,994 9,994
	MAJOR EQUIPMENT, MDA	
1	THAAD SYSTEM.....	495,396 578,335
2	GROUND BASED MIDCOURSE.....	--- 150,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
34 AEGIS BMD.....	356,195	353,896
35 AEGIS BMD (AP).....	44,901	44,901
36 BMDS AN/TPY-2 RADARS.....	---	243,270
37 AEGIS BMD SM-3 BLOCK IIA.....	218,322	318,322
38 ISRAELI PROGRAMS.....	77,000	77,000
39 SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD).....	50,000	50,000
40 AEGIS ASHORE PHASE III.....	39,114	34,629
41 IRON DOME SYSTEM.....	73,000	73,000
42 AEGIS BMD HARDWARE AND SOFTWARE.....	104,241	104,241
48 MAJOR EQUIPMENT, NSA INFORMATION SYSTEMS SECURITY PROGRAM (ISSP).....	101	101
49 MAJOR EQUIPMENT, OSD MAJOR EQUIPMENT, OSD.....	3,099	33,099
50 MAJOR EQUIPMENT, TJS MAJOR EQUIPMENT, TJS.....	8,329	8,329
51 MAJOR EQUIPMENT - TJS CYBER.....	1,247	1,247
53 MAJOR EQUIPMENT, WHS MAJOR EQUIPMENT, WHS.....	515	515
TOTAL, MAJOR EQUIPMENT.....	2,405,510	2,976,935
SPECIAL OPERATIONS COMMAND AVIATION PROGRAMS		
55 ARMED OVERWATCH/TARGETING.....	101,000	21,000
59 SOF ROTARY WING UPGRADES AND SUSTAINMENT.....	211,041	211,041
60 UNMANNED ISR.....	25,488	24,488
61 NON-STANDARD AVIATION.....	61,874	61,874
62 SOF U-28.....	3,825	3,825
63 MH-47 CHINOOK.....	135,482	135,482
64 CV-22 SOF MODIFICATION.....	14,829	54,109
65 MQ-9 UNMANNED AERIAL VEHICLE.....	6,746	6,746
66 PRECISION STRIKE PACKAGE.....	243,111	233,111
67 AC/MC-130J.....	163,914	153,914
68 C-130 MODIFICATIONS.....	20,414	17,014
SHIPBUILDING		
69 UNDERWATER SYSTEMS.....	20,556	20,556

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
70	AMMUNITION PROGRAMS SOF ORDNANCE ITEMS UNDER \$5,000,000.....	186,197 184,297
71	OTHER PROCUREMENT PROGRAMS SOF INTELLIGENCE SYSTEMS.....	94,982 94,982
72	DCGS-SOF.....	11,645 11,645
73	OTHER ITEMS UNDER \$5,000,000.....	96,333 81,707
74	SOF COMBATANT CRAFT SYSTEMS.....	17,278 33,278
75	SPECIAL PROGRAMS.....	78,865 107,365
76	TACTICAL VEHICLES.....	30,158 30,158
77	WARRIOR SYSTEMS UNDER \$5,000,000.....	260,733 303,733
78	COMBAT MISSION REQUIREMENTS.....	19,848 19,848
79	SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	2,401 2,401
80	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	13,861 13,861
81	SOF OPERATIONAL ENHANCEMENTS.....	247,038 247,038
	TOTAL, SPECIAL OPERATIONS COMMAND.....	2,067,619 2,073,473
82	CHEMICAL/BIOLOGICAL DEFENSE CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS.....	147,150 144,023
83	CB PROTECTION AND HAZARD MITIGATION.....	149,944 148,752
	TOTAL, CHEMICAL/BIOLOGICAL DEFENSE.....	297,094 292,775
	CLASSIFIED PROGRAMS.....	554,264 494,164
	TOTAL, PROCUREMENT, DEFENSE-WIDE.....	5,324,487 5,837,347

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
21 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO)	42,084	41,084
Insufficient justification		-1,000
23 MAJOR EQUIPMENT	417,459	390,459
MGUE excess growth		-20,000
MGUE - DLA requested transfer to RDTE, DW line 54		-7,000
31 THAAD SYSTEM	495,396	578,335
Unit cost growth		-23,494
Program increase - HEMTT trucks		30,108
Program increase - THAAD Battery #8		76,325
32 GROUND BASED MIDCOURSE	0	150,000
Program increase - GBI boosters		150,000
34 AEGIS BMD	356,195	353,896
SM-3 Block IB multiyear procurement unit cost savings		-2,299
36 BMDS AN/TPY-2 RADARS	0	243,270
Program increase - THAAD Battery #8		243,270
37 AEGIS BMD SM-3 Block IIA	218,322	318,322
Program increase - additional SM-3 Block IIA interceptors		100,000
40 AEGIS ASHORE PHASE III	39,114	34,629
Excess growth		-4,485
49 MAJOR EQUIPMENT, OSD	3,099	33,099
Mentor Protégé funding restoration		30,000
55 ARMED OVERWATCH/TARGETING	101,000	21,000
Excess to need		-60,000
Armed Overwatch - SOCOM requested transfer to RDTE, DW line 258		-20,000
60 UNMANNED ISR	25,488	24,488
EOTACs insufficient budget justification		-1,000
64 CV-22 SOF MODIFICATION	14,829	54,109
Program increase - two aircraft modifications		39,280
66 PRECISION STRIKE PACKAGE	243,111	233,111
Excess to need		-10,000
67 AC/MC-130J	163,914	153,914
RFCM excess to need		-10,000
68 C-130 MODIFICATIONS	20,414	17,014
Excess to need		-3,400

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P-1	Budget Request	Final Bill
70 SOF ORDNANCE ITEMS UNDER \$5M	186,197	184,297
Unit cost growth		-1,900
73 SOF OTHER ITEMS UNDER \$5M	96,333	81,707
MMP excess to need		-12,226
Unobligated balances		-2,400
74 SOF COMBATANT CRAFT SYSTEMS	17,278	33,278
Program increase - combatant craft assault		16,000
75 SPECIAL PROGRAMS	78,865	107,365
Classified adjustment - excess to need		-10,000
Program increase - classified adjustment		38,500
77 SOF WARRIOR SYSTEMS UNDER \$5M	260,733	303,733
Program increase - STC		20,000
RC-IED excess to need		-2,000
Program increase - cUAS		25,000
82 CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS	147,150	144,023
Program increase - joint chemical agent detector solid liquid adapter		2,450
Program increase - CBRN dismounted reconnaissance system		5,000
Enhanced maritime biological detection insufficient budget justification		-7,200
JCAD SLA support costs unjustified		-2,277
MERLIN hardware previously funded		-1,100
83 CB PROTECTION AND HAZARD MITIGATION	149,944	148,752
Program increase - joint service lightweight integrated suit technology		2,000
Program increase - smallpox antiviral stockpile		5,500
JSGPM insufficient budget justification		-2,600
JSAM SA forward financing		-4,600
UIPE insufficient budget justification		-1,492
999 CLASSIFIED PROGRAMS	554,264	494,164
Classified adjustment		-60,100

(113E)

DEFENSE PRODUCTION ACT PURCHASES

The agreement provides \$174,639,000 for Defense Production Act Purchases, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
DEFENSE PRODUCTION ACT PURCHASES	181,931	174,639
Program increase - 3D carbon hypersonic materials		10,000
Department of Defense identified excess funding		-17,292
TOTAL, DEFENSE PRODUCTION ACT PURCHASES	181,931	174,639

TITLE IV - RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The agreement provides \$107,135,164,000 in Title IV, Research, Development, Test and Evaluation, as follows:

~~(INSERT RDTE SUMMARY TABLE)~~ e

insert ISA

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RECAPITULATION		
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY.....	12,587,343	13,969,032
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY.....	21,427,048	20,078,829
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE.	37,391,826	36,357,443
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE.....	10,327,595	10,540,069
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE.....	24,280,891	25,932,671
OPERATIONAL TEST AND EVALUATION, DEFENSE.....	210,090	257,120

GRAND TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION.....	106,224,793 =====	107,135,164 =====

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

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense Appropriations bill for Fiscal Year 2008 (House Report 110-279). Specifically, the dollar threshold for reprogramming funds shall be \$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 the guidance specified in the explanatory statement accompanying the Department of Defense Appropriations Act, 2006. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. These thresholds are cumulative from the base for reprogramming value as modified by any adjustments. Therefore, if the combined value of transfers into or out of a procurement (P-1) or research, development, test and evaluation (R-1) line exceeds the identified threshold, the Secretary of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this statement.

FUNDING INCREASES

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

RESEARCH, DEVELOPMENT, TEST AND EVALUATION SPECIAL INTEREST ITEMS

Items for which additional funds have been recommended or items for which funding is specifically reduced as shown in the project level tables detailing recommended adjustments or in paragraphs using the phrase “only for” or “only to” in the 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 elsewhere in the explanatory statement.

SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS

The agreement includes a modified version of the new general provision submitted with the fiscal year 2021 President’s budget request for Software and Digital Technology Pilot programs funded in a new Budget Activity Eight within the Research, Development, Test and Evaluation accounts. The agreement acknowledges the Department’s rationale regarding the incremental technical challenges posed by modern software development, including implementing technical fixes to existing code, addressing cyber vulnerabilities, and integrating incrementally developed new capabilities. However, the agreement modifies the general provision under the premise that objective quantitative and qualitative evidence is needed to evaluate potential expansion of the approved pilot

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

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

TRANSITION OF PROGRAMS FROM THE STRATEGIC CAPABILITIES OFFICE

The fiscal year 2021 President's budget request includes \$730,508,000 in Research, Development, Test and Evaluation, Defense-Wide for programs managed and executed by the Strategic Capabilities Office (SCO). The transition of several programs from SCO to the Services is supported to the extent that they address Service requirements. However, it is concerning that for programs planned for transition from SCO to the Services, detailed cost, schedule, and budget data are not routinely included

with budget justification materials submitted by either SCO or the Services. Further, it is noted 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 2022 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, appropriation account, and program element. Finally, the Secretary of Defense is directed to continue to provide quarterly obligation and expenditure reports for SCO by project to the congressional defense committees.

MID-TIER ACQUISITION AND RAPID PROTOTYPING PROGRAMS

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

While supportive of efforts to deliver capability to the warfighter in an accelerated manner, it is noted that under current law, several reporting requirements that apply to traditional acquisition programs, to include independent cost estimates and test and evaluation master plans, are not required for mid-tier acquisition and rapid prototyping programs and to date have been provided only when specifically directed by the House and Senate Appropriations Committees. As the Department of Defense appears to increase its reliance on such acquisition authorities, it is concerning that this standard acquisition information is not being provided as a matter of practice. Further, it is concerning that the Services' growing trend toward procuring de facto operational assets via prototyping acquisitions may limit the Services' ability to successfully manage their acquisition programs in the long-term by eliminating the full understanding of long-term program costs up-front; unnecessarily narrowing down the industrial base early in the acquisition process; and eliminating opportunities for future innovation by reducing competitive opportunities over the life of the acquisition. Finally, there is concern that budgeting for these de facto end-items incrementally with research and development appropriations instead of fully funding them with procurement appropriations obfuscates costs, and limits transparency and visibility into Services' procurement efforts.

The Under Secretaries of Defense (Research and Engineering) and (Acquisition and Sustainment), as well as the Service acquisition executives are directed to provide to the congressional defense committees, with submission of the fiscal year 2022 President's budget request, a complete list of approved acquisition programs—and programs pending approval in fiscal year 2022—utilizing prototyping or accelerated acquisition authorities, along with the rationale for each selected acquisition strategy, as well as a cost estimate and contracting strategy for each such program. Further, the Under Secretary of Defense (Comptroller) and the respective Financial Manager and Comptrollers for the Army, Navy, and Air Force are directed to certify full funding of the

acquisition strategies for each of these programs in the fiscal year 2022 President's budget request, including their test strategies; and the Director, Operational Test and Evaluation is directed to certify to the congressional defense committees the appropriateness of the Services' planned test strategies for such programs, to include a risk assessment. To the extent that the respective Service acquisition executives, Service financial manager and comptrollers, and Director, Operational Test and Evaluation provided the information requested above with submission of the fiscal year 2021 President's budget, any variations thereto should be included with the fiscal year 2022 submission. In addition, the Services' financial manager and comptrollers are directed to identify the full costs for prototyping units by individual item in the budget exhibits for research, development, test and evaluation appropriations for the budget year as well as the future years defense program.

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS

Section 8025(e) of the Department of Defense Appropriations Act, 2020 directed the Secretary of Defense to submit, with the submission of the fiscal year 2021 budget request, a report presenting the specific amounts of staff years of technical effort to be allocated for each Defense Federally Funded Research and Development Center (FFRDC) during that fiscal year, and the associated budget estimates. It is noted that this annually recurring reporting requirement assists the House and Senate Appropriations Committees in their budget review for Defense FFRDCs and that timely and complete submittal is expected. It is further noted that in fiscal year 2020, the Under Secretary of Defense (Research & Engineering) adjusted the allocation of staff-years of technical effort (STE) contrary to congressional intent expressed in section 8025. Therefore,

section 8026 of this agreement further specifies the allocation of STE for studies and analyses FFRDCs for fiscal year 2021.

The Under Secretary of Defense (Research and Engineering) is directed to submit a report to the congressional defense committees, not later than 180 days after the enactment of this Act, describing the methodology and criteria used to assess each Defense FFRDC funded by this Act, the definition of their respective core competencies, and what, if any, adjustments are recommended for fiscal years 2022 and 2023. In addition, the Under Secretary of Defense (Research and Engineering) is directed to inform the congressional defense committees of any potentially required changes to Department of Defense Instruction 5000.77 not less than 45 days prior to the implementation of any such change.

In addition, the agreement directs the Comptroller General to provide to the congressional defense committees, not later than 180 days after the enactment of this Act, a report that includes a detailed listing of all FFRDCs funded by this Act; the name of the primary sponsoring organization for each FFRDC; the period of performance (including contract options) for each FFRDC contract, to include contract scope, contract ceiling, amount of STE allocated, and, if not competed, justification for sole source contract actions.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

The agreement provides \$13,969,032,000 for Research, Development, Test and Evaluation, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ a

insert 123A-S

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY		
BASIC RESEARCH		
2	DEFENSE RESEARCH SCIENCES.....	303,257 367,457
3	UNIVERSITY RESEARCH INITIATIVES.....	67,148 97,148
4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS.....	87,877 121,877
5	CYBER COLLABORATIVE RESEARCH ALLIANCE.....	5,077 5,077
	TOTAL, BASIC RESEARCH.....	463,359 591,559
APPLIED RESEARCH		
7	BIOMEDICAL TECHNOLOGY.....	11,835 11,835
11	COUNTER IMPROVISED-THREAT ADVANCED STUDIES.....	2,000 2,000
12	LETHALITY TECHNOLOGY.....	42,425 108,925
13	ARMY APPLIED RESEARCH.....	30,757 30,757
14	SOLDIER LETHALITY TECHNOLOGY.....	125,435 204,435
15	GROUND TECHNOLOGY.....	28,047 154,047
16	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY.....	217,565 265,565
17	NETWORK C3I TECHNOLOGY.....	114,404 204,904
18	LONG RANGE PRECISION FIRES TECHNOLOGY.....	60,553 126,053
19	FUTURE VERTICLE LIFT TECHNOLOGY.....	96,484 165,484
20	AIR AND MISSILE DEFENSE TECHNOLOGY.....	56,298 109,298
22	C3I APPLIED CYBER.....	18,816 18,816
40	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY.....	20,766 20,766
42	MEDICAL TECHNOLOGY.....	95,496 102,496
	TOTAL, APPLIED RESEARCH.....	920,881 1,525,381
ADVANCED TECHNOLOGY DEVELOPMENT		
44	MEDICAL ADVANCED TECHNOLOGY.....	38,896 89,896
49	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY..	11,659 11,659
52	MEDICAL DEVELOPMENT.....	27,723 27,723
53	ARMY ADVANCED TECHNOLOGY DEVELOPMENT.....	62,663 62,663
54	SOLDIER LETHALITY ADVANCED TECHNOLOGY.....	109,608 147,608
55	GROUND ADVANCED TECHNOLOGY.....	14,795 210,095
59	COUNTER IMPROVISED-THREAT SIMULATION.....	25,000 25,000
63	C3I CYBER ADVANCED DEVELOPMENT.....	23,357 43,357
64	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM.....	188,024 228,024
65	NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY....	199,358 307,358

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
66 NETWORK C3I ADVANCED TECHNOLOGY.....	158,608	206,908
67 LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY.....	121,060	176,060
68 FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY.....	156,194	224,944
69 AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY.....	58,130	182,630
77 HUMANITARIAN DEMINING.....	8,515	17,000
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	1,203,590	1,960,925
DEMONSTRATION & VALIDATION		
78 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION.....	11,062	140,312
79 ARMY SPACE SYSTEMS INTEGRATION.....	26,230	26,230
80 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING.....	26,482	47,582
81 LANDMINE WARFARE AND BARRIER - ADV DEV.....	64,092	58,406
83 TANK AND MEDIUM CALIBER AMMUNITION.....	92,753	91,753
84 ARMORED SYSTEM MODERNIZATION - ADV DEV.....	151,478	144,214
85 SOLDIER SUPPORT AND SURVIVABILITY.....	5,841	5,841
86 TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - ADV DEV.....	194,775	182,400
87 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT.....	24,316	16,316
88 ENVIRONMENTAL QUALITY TECHNOLOGY - DEM/VAL.....	13,387	21,387
89 NATO RESEARCH AND DEVELOPMENT.....	4,762	4,762
90 AVIATION - ADV DEV.....	647,937	717,946
91 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV.....	4,761	8,761
92 MEDICAL SYSTEMS - ADV DEV.....	28,520	34,020
93 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT.....	26,138	24,138
94 ROBOTICS DEVELOPMENT.....	121,207	99,792
96 ELECTRONIC WARFARE TECHNOLOGY MATURATION (MIP).....	22,840	15,034
97 LOW EARTH ORBIT (LEO) SATELLITE CAPABILITY.....	22,678	22,678
98 ANALYSIS OF ALTERNATIVES.....	10,082	10,082
99 SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.4).....	1,378	1,378
100 FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS).....	40,083	57,083
101 LOWER TIER AIR MISSILE DEFENSE (LTAMID) SENSOR.....	376,373	322,543
102 TECHNOLOGY MATURATION INITIATIVES.....	156,834	146,834
103 MANEUVER - SHORT RANGE AIR DEFENSE (M-SHORAD).....	4,995	4,995
105 ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING.....	170,490	172,990
106 ASSURED POSITIONING, NAVIGATION AND TIMING (PNT).....	128,125	120,364
SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND 107 PROTOTYPING.....	129,547	116,821

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

108 COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING.....	13,831	13,831
109 HYPERSONICS.....	801,417	861,417
111 FUTURE INTERCEPTOR.....	7,992	---
112 UNIFIED NETWORK TRANSPORT.....	40,677	40,677
113 MOBILE MEDIUM RANGE MISSILE.....	---	88,100
115 CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	50,525	50,525

TOTAL, DEMONSTRATION & VALIDATION.....	3,421,608	3,669,212
ENGINEERING & MANUFACTURING DEVELOPMENT		
118 AIRCRAFT AVIONICS.....	2,764	7,264
119 ELECTRONIC WARFARE DEVELOPMENT.....	62,426	58,902
121 INFANTRY SUPPORT WEAPONS.....	91,574	91,838
122 MEDIUM TACTICAL VEHICLES.....	8,523	8,523
123 JAVELIN.....	7,493	6,257
124 FAMILY OF HEAVY TACTICAL VEHICLES.....	24,792	23,157
125 AIR TRAFFIC CONTROL.....	3,511	3,511
126 LIGHT TACTICAL WHEELED VEHICLES.....	1,976	4,265
127 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV.....	135,488	128,938
128 NIGHT VISION SYSTEMS - ENG/DEV.....	61,445	56,477
129 COMBAT FEEDING, CLOTHING, AND EQUIPMENT.....	2,814	2,814
130 NON-SYSTEM TRAINING DEVICES - ENG/DEV.....	28,036	28,036
AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -		
131 ENG/DEV.....	43,651	43,651
132 CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT.....	10,150	10,150
133 AUTOMATIC TEST EQUIPMENT DEVELOPMENT.....	5,578	5,578
134 DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - ENG/DEV..	7,892	7,892
135 BRILLIANT ANTI-ARMOR SUBMUNITION (BAT).....	24,975	24,975
136 COMBINED ARMS TACTICAL TRAINER (CATT) CORE.....	3,568	3,568
137 BRIGADE ANALYSIS, INTEGRATION AND EVALUATION.....	19,268	19,268
138 WEAPONS AND MUNITIONS - ENG/DEV.....	265,811	290,561
139 LOGISTICS AND ENGINEER EQUIPMENT - ENG/DEV.....	49,694	55,490
140 COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - ENG/DEV....	11,079	11,079
141 MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT.	49,870	52,870
142 LANDMINE WARFARE/BARRIER - ENG/DEV.....	9,589	9,589
143 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE...	162,513	134,244

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
144 RADAR DEVELOPMENT.....	109,259	109,259
145 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEB).....	21,201	16,201
146 FIREFINDER.....	20,008	19,008
147 SOLDIER SYSTEMS - WARRIOR DEM/VAL.....	6,534	6,534
148 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD.....	82,459	75,872
149 ARTILLERY SYSTEMS - EMD.....	11,611	36,611
150 INFORMATION TECHNOLOGY DEVELOPMENT.....	142,678	137,051
151 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A).....	115,286	115,286
152 ARMORED MULTI-PURPOSE VEHICLE (AMPV).....	96,594	79,666
154 JOINT TACTICAL NETWORK CENTER (JTNC).....	16,264	16,264
155 JOINT TACTICAL NETWORK (JTN).....	31,696	31,696
GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM - 157 EXPEDITIONARY (GBOSS-E).....	5,976	5,976
159 COMMON INFRARED COUNTERMEASURES (CIRC).....	23,321	28,321
161 NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE....	4,846	4,846
162 DEFENSIVE CYBER TOOL DEVELOPMENT.....	28,544	28,544
163 TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER).....	28,178	21,539
164 CONTRACT WRITING SYSTEM.....	22,860	22,860
166 AIRCRAFT SURVIVABILITY DEVELOPMENT.....	35,893	35,893
167 INDIRECT FIRE PROTECTION CAPABILITY INC 2 - BLOCK 1...	235,770	161,968
168 GROUND ROBOTICS.....	13,710	12,510
169 EMERGING TECHNOLOGY INITIATIVES.....	294,739	304,739
170 MEDICAL PRODUCTS AND SUPPORT SYSTEMS DEVELOPMENT.....	954	954
171 ARMY SYSTEM DEVELOPMENT & DEMONSTRATION.....	150,201	150,201
172 SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.5).....	5,999	5,999
174 JOINT AIR-TO-GROUND MISSILE (JAGM).....	8,891	7,891
175 ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD).....	193,929	213,929
176 MANNED GROUND VEHICLE.....	327,732	183,852
177 NATIONAL CAPABILITIES INTEGRATION.....	7,670	7,670
178 JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING....	1,742	1,742
179 AVIATION GROUND SUPPORT EQUIPMENT.....	1,467	1,467
180 TROJAN - RH12.....	3,451	3,451
183 ELECTRONIC WARFARE DEVELOPMENT.....	55,855	55,855
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	3,199,798	2,992,552

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RDT&E MANAGEMENT SUPPORT		
185 THREAT SIMULATOR DEVELOPMENT.....	14,515	42,015
186 TARGET SYSTEMS DEVELOPMENT.....	10,668	35,668
187 MAJOR T&E INVESTMENT.....	106,270	123,110
188 RAND ARROYO CENTER.....	13,481	13,481
189 ARMY KWAJALEIN ATOLL.....	231,824	231,824
190 CONCEPTS EXPERIMENTATION PROGRAM.....	54,898	53,898
192 ARMY TEST RANGES AND FACILITIES.....	350,359	390,359
193 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS.....	48,475	83,475
194 SURVIVABILITY/LETHALITY ANALYSIS.....	36,001	36,001
195 AIRCRAFT CERTIFICATION.....	2,736	2,736
196 METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES.....	6,488	6,488
197 MATERIEL SYSTEMS ANALYSIS.....	21,859	21,859
198 EXPLOITATION OF FOREIGN ITEMS.....	7,936	7,936
199 SUPPORT OF OPERATIONAL TESTING.....	54,470	54,470
200 ARMY EVALUATION CENTER.....	63,141	56,827
ARMY MODELING AND SIMULATION X-CMD COLLABORATION AND 201 INTEG.....	2,572	2,572
202 PROGRAMWIDE ACTIVITIES.....	87,472	85,972
203 TECHNICAL INFORMATION ACTIVITIES.....	26,244	26,244
204 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY...	40,133	57,113
205 ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT.....	1,780	1,780
206 ARMY DIRECT REPORT HEADQUARTERS - R&D - MHA.....	55,045	55,045
208 RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE.....	71,306	71,306
209 COUNTERINTEL AND HUMAN INTEL MODERNIZATION.....	1,063	1,063
210 MEDICAL PROGRAM-WIDE ACTIVITIES.....	19,891	19,891
211 ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES.....	4,496	6,496
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,333,123	1,487,629

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATIONAL SYSTEMS DEVELOPMENT		
214	MLRS PRODUCT IMPROVEMENT PROGRAM.....	10,157 10,157
216	ANTI-TAMPER TECHNOLOGY SUPPORT.....	8,682 8,682
217	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS....	20,409 20,409
219	LONG RANGE PRECISION FIRES (LRPF).....	122,733 104,625
221	BLACKHAWK RECAP/MODERNIZATION.....	11,236 8,711
222	CHINOOK HELICOPTER PRODUCT IMPROVEMENT PROGRAM.....	46,091 51,091
224	IMPROVED TURBINE ENGINE PROGRAM.....	249,257 241,257
225	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT.....	17,155 17,155
226	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS.....	7,743 19,743
227	APACHE FUTURE DEVELOPMENT.....	77,177 55,319
228	INTEL CYBER DEVELOPMENT.....	14,652 14,652
229	ARMY OPERATIONAL SYSTEMS DEVELOPMENT.....	35,851 35,851
230	FAMILY OF BIOMETRICS.....	1,324 1,324
231	PATRIOT PRODUCT IMPROVEMENT.....	187,840 185,840
232	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM....	44,691 44,691
233	COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	268,919 225,604
234	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS.....	427,254 233,554
235	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS...	11,688 11,688
236	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	80 80
237	DIGITIZATION.....	4,516 4,516
238	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	1,288 1,288
239	OTHER MISSILE PRODUCT IMPROVEMENT.....	79,424 13,587
243	ENVIRONMENTAL QUALITY TECHNOLOGY - OPERATIONAL SYSTEM.	259 259
244	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM.....	166 ---
245	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS).....	75,575 75,575
246	JOINT TACTICAL GROUND SYSTEM.....	9,510 9,510
249	INFORMATION SYSTEMS SECURITY PROGRAM.....	29,270 28,270
250	GLOBAL COMBAT SUPPORT SYSTEM.....	86,908 73,825
251	SATCOM GROUND ENVIRONMENT (SPACE).....	18,684 18,684
256	INTEGRATED BROADCAST SERVICE (IBS).....	467 467
257	TACTICAL UNMANNED AERIAL VEHICLES.....	4,051 4,051
258	AIRBORNE RECONNAISSANCE SYSTEMS.....	13,283 13,283
259	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	47,204 40,771

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
264 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	61,012	133,012
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,994,556	1,707,531
267 DEFENSIVE CYBER - SOFTWARE PROTOTYPE DEVELOPMENT.....	46,445	56,706
9999 CLASSIFIED PROGRAMS.....	3,983	3,983
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-26,446
	=====	=====
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY.....	12,587,343	13,969,032
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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

R-1	Budget Request	Final Bill
2 DEFENSE RESEARCH SCIENCES	303,257	367,457
Program increase - unmanned aerial systems multi-fuel hybrid propulsion		15,000
Program increase		10,000
Program increase - flexible LED lighting for tents and shelters		5,200
Program increase - counter UAS technology research		5,000
Program increase - cell-free expression for biomanufacturing		10,000
Program increase - explosives and opioids dual-use UV detection		3,000
Program increase - advanced hemostat products		6,000
Program increase - artificial intelligence complex multi-material composites processing		10,000
3 UNIVERSITY RESEARCH INITIATIVES	67,148	97,148
Program increase		20,000
Program increase - additive manufacturing using ultra high-performance concrete		10,000
4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS	87,877	121,877
Program increase - Army artificial intelligence innovation		20,000
Program increase - materials in extreme dynamic environments		10,000
Program increase - biotechnology development		4,000
12 LETHALITY TECHNOLOGY	42,425	108,925
Program increase - novel and sustainable energetic materials		24,000
Program increase - quantum technologies for armament systems		10,000
Program increase - solid fuel propulsion technology		10,000
Program increase - hybrid additive manufacturing		10,000
Program increase - next generation remote sensing		5,000
Program increase - advanced lethality concepts and analysis		7,500
14 SOLDIER LETHALITY TECHNOLOGY	125,435	204,435
Program increase - lightweight body armor mechanisms and materials		10,000
Program increase - Pathfinder airborne		8,000
Program increase - advanced textile-based products		6,000
Program increase - UTDD catalyst		5,000
Program increase - HEROES program		5,000
Program increase - soldier ballistic technologies		5,000
Program increase - academic accelerator pilot program		15,000
Program increase - Pathfinder air assault		10,000
Program increase - advanced ballistics technology for personal protective systems		4,000
Program increase - medical simulation and training		4,000
Program increase - body armor study		4,000
Program increase - rapidly deployable shelters		3,000

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	Budget Request	Final Bill
15 GROUND TECHNOLOGY	28,047	154,047
Program increase - defense resiliency against extreme cold weather		10,000
Program increase - rapid advanced deposition		10,000
Program increase - additive manufacturing machine learning initiative		10,000
Program increase - materials manufacturing processes		10,000
Program increase - materials recovery technologies for defense supply resiliency		10,000
Program increase - autonomous digital design and manufacturing		5,000
Program increase - environmental quality enhanced coatings		5,000
Program increase - integrity of transparent armor		5,000
Program increase - high performance polymers		5,000
Program increase - advanced polymers for force protection		8,000
Program increase - military waste stream conversion		5,000
Program increase - robotic RTCH		5,000
Program increase - advanced concrete		4,000
Program increase - cellulose nanocomposites research		5,000
Program increase - center for research in extreme batteries		10,000
Program increase - earthen structures soil enhancement		4,000
Program increase - ice engineering research facility modernization		5,000
Program increase - counter UAS technology in arctic environments		10,000
16 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	217,565	265,565
Program increase - prototyping energy smart autonomous ground systems		12,000
Program increase - additive metals manufacturing		10,000
Program increase - self-sealing fuel tanks technology		6,000
Program increase - silicon carbide electronics		6,000
Program increase - highly electrified vehicles		5,000
Program increase - modeling and simulation		10,000
BF9 insufficient justification		-1,000
17 NETWORK C3I TECHNOLOGY	114,404	204,904
Program increase - artificial intelligence and machine learning electronic warfare sensor technology		10,000
Program increase - integrating energy and computing networks		10,000
Program increase - energy efficient devices		5,000
Program increase - CHARM		5,000
Program increase - APNT for autonomous vehicles		5,000
Program increase - inertial navigation systems		10,000
Program increase - APNT distributed antennae		20,000
Program increase - autonomous platform threat detection sensors		6,000
Program increase - intelligent electronic protection technology		2,500
Program increase - multi-UAS integrated ISR technology		3,000
Program increase - mobile environmental contaminant sensors		8,000
Program increase - unmanned sensors for biological and chemical hazards		2,000
Program increase - urban subterranean mapping technology		4,000
18 LONG RANGE PRECISION FIRES TECHNOLOGY	60,553	126,053
Program increase - extended range hybrid and precision gun launched projectiles		15,000
Program increase - composite cannon tubes		5,000
Program increase - precision strike munitions		4,000
Program increase - advanced materials for missile applications		20,000
Program increase - novel printed armament components		6,500
Program increase - phase changing hydrogen fuel program		15,000

R-1	Budget Request	Final Bill
19 FUTURE VERTICAL LIFT TECHNOLOGY	96,484	165,484
Program increase - individual blade and higher harmonic control		10,000
Program increase - high strength functional composites		5,000
Program increase - advanced rotary wing materials and structures		5,000
Program increase - additive manufacturing of multi-functional composite aerospace components		5,000
Program increase - adaptive flight control technology		4,000
Program increase - high density eVTOL power source		15,000
Program increase - lightweight hybrid composite medium caliber barrels		20,000
Program increase - technology transfer and innovation		5,000
20 AIR AND MISSILE DEFENSE TECHNOLOGY	56,298	109,298
Program increase - beam control systems and industry grade optical fiber fabrication for energy laser		12,000
Program increase - high energy laser enabling and support technology		7,000
Program increase - Army missile supply chain risk management		15,000
Program increase - close combat high energy laser technology		8,500
Program increase - countermeasures based on artificial intelligence enabled material analysis and design		6,000
Program increase - cyber resiliency in weapon systems		1,500
Program increase - counter-UAS center of excellence		1,500
Program increase - fires center of excellence		1,500
42 MEDICAL TECHNOLOGY	95,496	102,496
Program increase - military force vector borne health protection		5,000
Program increase - safety and performance of female warfighters in extreme heat		2,000
44 MEDICAL ADVANCED TECHNOLOGY	38,896	89,896
Program increase - peer-reviewed neurofibromatosis research		20,000
Program increase - peer-reviewed neurotoxin exposure treatment		
Parkinson's research		16,000
Program increase - peer-reviewed military burn research		10,000
Program increase - burn care training curriculum		5,000
54 SOLDIER LETHALITY ADVANCED TECHNOLOGY	109,608	147,608
Program increase		10,000
Program increase - advanced AI/AA analytics for modernization and readiness		10,000
Program increase - small arms fire control advanced technology		8,000
Program increase - advanced technology for maneuver support and protection		10,000

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	Budget Request	Final Bill
55 GROUND ADVANCED TECHNOLOGY	14,795	210,095
Program increase - flow battery demonstration		20,000
Program increase - corrosion protection and prevention		10,000
Program increase - rapid entry and sustainment for the arctic		8,000
Program increase - composite flywheel technology		7,000
Program increase - high-performance concrete technology		6,000
Program increase - secure management of energy generation and storage		5,000
Program increase - water quality and resiliency		5,000
Program increase - electrical system safety and reliability		5,000
Program increase - rare earth element extraction		5,000
Program increase - organic light emitting diode		5,000
Program increase - coatings technology		5,000
Program increase - smart installation and community program		5,000
Program increase - heavy load simulator		4,200
Program increase - integrated microgrids		4,000
Program increase - infrastructure resilience and flood assessment		3,000
Program increase - single connection quick oil change system		3,000
Program increase - cross-laminated timber and recycled carbon fiber materials		1,300
Program increase - clean modular hydro technology		4,000
Program increase - accelerator technology for ground maneuver		5,000
Program increase - anticipating threats to natural systems		6,000
Program increase - Army visual and tactical arctic reconnaissance		2,000
Program increase - autonomous combat engineering solutions		5,500
Program increase - coastal terrain hazard research		8,000
Program increase - cold weather research station		2,000
Program increase - environmental sensors for explosives		3,000
Program increase - expeditionary deployment for fully sustainable utility		10,000
Program increase - graphene research		5,000
Program increase - impacts of soil structures on hydrology		4,000
Program increase - information technology for bridge sustainment		5,000
Program increase - materials and manufacturing technology for cold environments		4,000
Program increase - military engineering technology for infield waste		2,000
Program increase - operational energy research		1,300
Program increase - research facility modernization		6,000
Program increase - robotic construction equipment		5,000
Program increase - robotic 4-D printing of geopolymer-based composites for extreme environments		2,000
Program increase - S-UAS cyberwar threat management		7,500
Program increase - sub-surface infrastructure in arctic environments		1,000
Program increase - temperature insensitive high-energy density lithium-ion batteries		2,500
Program increase - vehicle performance reliability and operations		3,000
63 C3I CYBER ADVANCED DEVELOPMENT	23,357	43,357
Program increase - high bandwidth cryptomodule enhancements and certification		10,000
Program increase - low SWAP software-defined MFEW		10,000
64 HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	188,024	228,024
Program increase		40,000

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	Budget Request	Final Bill
NEXT GENERATION COMBAT VEHICLE ADVANCED		
65 TECHNOLOGY	199,358	307,358
Program increase - additive manufacturing for jointless hull		10,000
Program increase - hydrogen fuel cells		10,000
Program increase - carbon fiber and graphitic foam technology		10,000
Program increase - combat vehicle weight reduction		10,000
Program increase - ATE5.2 engine development		10,000
Program increase - combat vehicle blast testing		6,000
Program increase - additive manufacturing of critical components		5,000
Program increase - advanced adhesives		5,000
Program increase - combat vehicle lithium 6T battery development		5,000
Program increase - vehicle technology readiness levels		2,000
Program increase - 10X technology demonstration		8,000
Program increase - HMMWV augmented reality HUD		5,000
Program increase - HMMWV automotive enhancements		5,000
Program increase - HMMWV autonomy		3,000
Program increase - operator-in-the-loop virtual and physical prototyping		4,000
Program increase - virtual and physical prototyping		10,000
66 NETWORK C3I ADVANCED TECHNOLOGY	158,608	206,908
Program increase - mesh network-enabled small satellites		10,000
Program increase - tactical geospatial information capabilities		10,000
Program increase - geospatial artificial intelligence analytic tools		4,000
Program increase - advanced materials and technologies for command post modernization		10,000
Program increase - advanced materials for resilient sensors		8,000
Program increase - assured position, navigation, and timing technology		6,300
67 LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	121,060	176,060
Program increase - hypervelocity projectile extended range		20,000
Program increase - rapid demonstration capability		25,000
Program increase - tactical intercepting vehicle for access shaping		10,000
68 FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	156,194	224,944
Program increase - advanced helicopter seating system		15,000
Program increase - joint tactical aerial resupply vehicle		8,000
Program increase - surface tolerant adhesives		5,000
Program increase - UH-60 main rotor blade modernization		5,000
Program increase - soldier information interface for aviation fleet management tool		2,250
Program increase - helicopter emergency oil systems		2,000
Program increase - displays and safety in DVE		4,000
Program increase - digital engineering demonstration		8,000
Program increase - ferrium steels for improved drive systems		5,000
Program increase - tethered UAS for all-terrain vehicles		12,500
Program increase - UAS fuel systems enhancements		2,000

R-1	Budget Request	Final Bill
69 AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY	58,130	182,630
Program increase		20,000
Program increase - thermal management system for high energy laser		7,500
Program increase - cUAS integration with robotic vehicles		5,000
Program increase - advanced explosion resistant window systems		5,000
Program increase - enterprise demonstration prototyping		7,000
Program increase - HEL risk reduction		50,000
Program increase - HEL system characterization lab		22,000
Program increase - silicon carbide power electronics packaging		8,000
77 HUMANITARIAN DEMINING	8,515	17,000
Program increase		8,485
78 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	11,062	140,312
Program increase		15,000
Program increase - gun launched interceptors		8,000
Program increase - advanced technology end-to-end testbed		10,500
Program increase - air and missile system critical technology development		12,000
Program increase - conventional mission capabilities		10,250
Program increase - hot air tunnel and MESO technologies for hypersonics		47,000
Program increase - integrated environmental control and power		16,000
Program increase - pragmatic artificial intelligence and new technology		10,500
80 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	26,482	47,582
Program increase - machine learning for integrated fires		5,000
Program increase - cyber and supply chain resiliency		22,500
Excess support costs		-6,400
81 LANDMINE WARFARE AND BARRIER - ADV DEV	64,092	58,406
Program increase - M58 mine clearing line charge		2,000
Interim top attack support costs carryover		-4,234
Interim top attack contract delay		-3,452
83 TANK AND MEDIUM CALIBER AMMUNITION	92,753	91,753
C-DAEM engineering support carryover		-1,000
84 ARMORED SYSTEM MODERNIZATION - ADV DEV	151,478	144,214
Program increase - next generation electrified transmission		8,200
Experimental prototyping costs excess to need		-15,464
86 TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - ADV DEV	194,775	182,400
MDSS sensor development early to need		-12,375
87 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	24,316	16,316
Heads up display product development previously funded		-8,000
88 ENVIRONMENTAL QUALITY TECHNOLOGY - DEM/VAL	13,387	21,387
Program increase - high pressure waterjet technology		5,000
Program increase - biopolymers for military infrastructure		3,000

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R-1	Budget Request	Final Bill
90 AVIATION - ADV DEV	647,937	717,946
Program increase - FLRAA capabilities development and integration		90,500
Program increase - model-based systems engineering		5,000
FLRAA engineering services carryover		-7,078
FLRAA program management and acquisition support carryover		-4,413
FARA phase II OTAP excess to need		-14,000
91 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV	4,761	8,761
Program increase - lightweight portable power generation		4,000
92 MEDICAL SYSTEMS - ADV DEV	28,520	34,020
Program increase - composite shelter		5,500
93 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	26,138	24,138
Soldier protection system development and integration carryover		-2,000
94 ROBOTICS DEVELOPMENT	121,207	99,792
Excess testing and evaluation growth		-6,415
Phase III prototype ahead of need		-15,000
96 ELECTRONIC WARFARE TECHNOLOGY MATURATION (MIP)	22,840	15,034
Terrestrial layer system excess to need		-7,806
100 FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM	40,083	57,083
Program increase - next generation secure waveform		15,000
Program increase - unmanned aerial vehicle fuel systems enhancements		2,000
101 LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR	376,373	322,543
P3I test asset incremental funding early to need		-33,250
Test and evaluation prior year carryover		-15,000
Product development and SETA carryover		-5,580
102 TECHNOLOGY MATURATION INITIATIVES	156,834	146,834
Operational fires requirement		-10,000
ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING	170,490	172,990
Program increase - maneuverable lightweight electric weight reducer		5,000
Insufficient justification		-2,500
106 ASSURED POSITIONING, NAVIGATION AND TIMING (PNT)	128,125	120,364
Mounted APNT new equipment training unjustified request		-667
Mounted APNT platform integration unjustified request		-7,094
SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING	129,547	116,821
Program increase		5,000
Insufficient budget justification		-28,126
STE-Live - Army requested transfer from WTCV line 5		10,400
109 HYPERSONICS	801,417	861,417
Program increase - hypersonic strategic materials and structures		10,000
Program increase - hypersonic glidebody risk reduction		50,000

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R-1	Budget Request	Final Bill
111 FUTURE INTERCEPTOR	7,992	0
Undefined requirement		-7,992
113 MOBILE MEDIUM RANGE MISSILE	0	88,100
Army requested transfer from WTCV line 5		88,100
118 AIRCRAFT AVIONICS	2,764	7,264
Program increase - high frequency aircraft avionics		4,500
119 ELECTRONIC WARFARE DEVELOPMENT	62,426	58,902
Insufficient budget justification		-3,524
121 INFANTRY SUPPORT WEAPONS	91,574	91,838
Program increase - turret gunner survivability and simulation environment		4,000
Program increase - cannon life extension program		1,500
S64 CROWS insufficient justification		-1,499
Program increase - soldier enhancement program		9,000
NGSW special purpose projectile development delay		-8,804
NGSW engineering support overestimation		-2,395
Soldier protective equipment product systems engineering support overestimation		-1,538
123 JAVELIN	7,493	6,257
Lightweight CLU development excess to need		-1,236
124 FAMILY OF HEAVY TACTICAL VEHICLES	24,792	23,157
EHETS prototypes overestimation		-1,635
126 LIGHT TACTICAL WHEELED VEHICLES	1,976	4,265
Infantry Squad Vehicle - Army requested transfer from OP,A line 5		2,289
127 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV	135,488	128,938
Performance test and evaluation carryover		-6,550
128 NIGHT VISION SYSTEMS - SDD	61,445	56,477
L70 excess to need		-2,000
Heads up display product development previously funded		-1,168
FWS-S contract development excess to need		-1,800
138 WEAPONS AND MUNITIONS - ENG DEV	265,811	290,561
Program increase - low cost extended range artillery		21,000
Program increase - 30mm guided proximity air burst ammunition		12,000
.50 caliber all-purpose tactical cartridge MDD delay		-4,250
Reduced range ammunition support carryover		-1,000
NGSW support, test and evaluation carryover		-3,000
139 LOGISTICS AND ENGINEER EQUIPMENT - SDD	49,694	55,490
Program increase - mobile camouflage net systems		8,000
194 excess support costs		-1,350
Program increase - health usage monitoring system		2,500
MSV(N) feasibility study ahead of need		-1,474
HIPPO PQT and LUT request ahead of need		-600
E2FDS request ahead of need		-1,280

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R-1	Budget Request	Final Bill
MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE		
141 EQUIPMENT	49,870	52,870
Program increase - wearable medical device for TBI prevention		3,000
ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE		
143 SOFTWARE	162,513	134,244
EJ6 TROPO IOT&E ahead of need		-7,860
Rephasing of MCE v3.2 development		-7,909
Reduce CPI2 Inc 1 and Inc 2 concurrency		-12,500
145 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBs)	21,201	16,201
Functional enhancements unjustified growth		-5,000
146 FIREFINDER	20,008	19,008
Excess carryover		-1,000
148 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD	82,459	75,872
Program increase - BFV active protection system		16,000
Logistics development excess to need		-7,617
VPS development and integration delays		-14,970
149 ARTILLERY SYSTEMS - EMD	11,611	36,611
Program increase - soft recoil artillery systems		25,000
150 INFORMATION TECHNOLOGY DEVELOPMENT	142,678	137,051
FL9 unjustified request		-3,082
FM8 ATIS release 2 ahead of need		-3,164
AIE wave 1 carryover		-6,881
FM7 insufficient justification		-3,000
Program increase - installation access control technology		10,500
152 ARMORED MULTI-PURPOSE VEHICLE (AMPV)	96,594	79,666
Excess carryover		-12,928
Test delays		-4,000
159 COMMON INFRARED COUNTERMEASURES (CIRCM)	23,321	28,321
Program increase - aviation artificial intelligence virtual training environment		5,000
163 TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER)	28,178	21,539
Manpack follow-on testing ahead of need		-6,639
167 INDIRECT FIRE PROTECTION CAPABILITY INC 2-BLOCK 1	235,770	161,968
Army-identified excess to need due to revised acquisition strategy		-47,762
Enduring technical support		-15,000
Enduring solution interceptor cost adjustment		-11,040
168 GROUND ROBOTICS	13,710	12,510
CRS(I) program management costs funded in procurement		-300
CRS(I) PQT and LUT previously funded		-200
S-MET program management transition to procurement		-700
169 EMERGING TECHNOLOGY INITIATIVES	294,739	304,739
Program increase - counter UAS directed energy prototype		10,000

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R-1	Budget Request	Final Bill
174 JOINT AIR-TO-GROUND MISSILE (JAGM)	8,891	7,891
OGA carryover		-1,000
175 ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)	193,929	213,929
Program increase - accelerated integration to counter emerging threats		20,000
176 MANNED GROUND VEHICLE	327,732	183,852
Army-identified excess to need due to revised OMFV acquisition strategy		-83,232
OMFV phase 2 engineering funding ahead of need		-23,400
OMFV phase 2 SEPM funding ahead of need		-22,350
OMFV logistics product development ahead of need		-1,200
OMFV SBIR/STTR excess to need		-13,698
185 THREAT SIMULATOR DEVELOPMENT	14,515	42,015
Program increase - cyber threat and vulnerability assessments		3,750
Program increase - cybersecurity operations center		20,000
Program increase - threat cyberspace operations		3,750
186 TARGET SYSTEMS DEVELOPMENT	10,668	35,668
Program increase - UAS swarm threat mitigation		25,000
187 MAJOR T&E INVESTMENT	106,270	123,110
Program increase - major operational test instrumentation		11,840
Program increase - radio frequency threat systems emulator for rotary wing aircraft		5,000
190 CONCEPTS EXPERIMENTATION PROGRAM	54,898	53,898
CDID excess growth		-1,000
192 ARMY TEST RANGES AND FACILITIES	350,359	390,359
Program increase - integrated directed energy testing		15,000
Program increase - distributed environment for system-of-system cybersecurity testing		25,000
193 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	48,475	83,475
Program increase - cyber space threats		5,000
Program increase - space and missile cyber security		30,000
200 ARMY EVALUATION CENTER	63,141	56,827
Insufficient justification		-6,314
202 PROGRAMWIDE ACTIVITIES	87,472	85,972
M47 GVSC excess to need		-750
M23 ERDC excess request		-750
204 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	40,133	57,113
Program increase - industrial base resiliency initiative		8,000
Program increase - polymer case ammunition		5,000
Excess carryover		-3,387
Program increase - foamable celluloid materials		5,000
Manufacturing technology for industrial base transformation carryover		-1,000
Conventional ammunition demilitarization carryover		-1,633
Program increase - neutron radiography technology		5,000
211 ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	4,496	6,496
Program increase - cyber vulnerability assessment		2,000

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R-1		Budget Request	Final Bill
219	LONG RANGE PRECISION FIRES (LRPF)	122,733	104,625
	Army identified excess		-14,798
	Excess engineering support		-3,310
221	BLACKHAWK RECAP/MODERNIZATION	11,236	8,711
	MEDEVAC MEP test and evaluation ahead of need		-2,525
222	CHINOOK HELICOPTER PRODUCT IMPROVEMENT PROGRAM	46,091	51,091
	Program increase - carbon composite materials for helicopter wheels and brakes		5,000
224	IMPROVED TURBINE ENGINE PROGRAM	249,257	241,257
	Excess to requirement		-4,252
	Unjustified matrixed engineering support growth		-3,748
226	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	7,743	19,743
	Program increase - scalable control interface		7,000
	Program increase - micro identification friend or foe transmitters		5,000
227	APACHE FUTURE DEVELOPMENT	77,177	55,319
	Program increase - crossbow		5,000
	SPIKE NLOS efforts ahead of need		-26,858
231	PATRIOT PRODUCT IMPROVEMENT	187,840	185,840
	PMO carryover		-2,000
233	COMBAT VEHICLE IMPROVEMENT PROGRAMS	268,919	225,604
	HERCULES excess to requirement		-10,750
	CROWS-J program delay		-5,667
	Bradley test support previously funded		-3,440
	Abrams SEPv4/ECP 1B carryover		-19,458
	Stryker carryover		-4,000
234	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	427,254	233,554
	ERCA increment 2 reprioritization		-193,700
239	OTHER MISSILE PRODUCT IMPROVEMENT PROGRAM	79,424	13,587
	CD-ATACMS program terminated		-62,440
	TOW prototype and design engineering concurrency		-3,397
244	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM	166	0
	Prior year carryover		-166
249	INFORMATION SYSTEMS SECURITY PROGRAM	29,270	28,270
	NGLD-M contract delay		-1,000
250	GLOBAL COMBAT SUPPORT SYSTEM	86,908	73,825
	GCSS-A Inc 2 unjustified growth		-13,083
259	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	47,204	40,771
	Unjustified program management growth		-1,910
	Ground station modernization contract award date		-4,523

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264 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	61,012	133,012
Program increase - functional fabrics and smart textiles		10,000
Program increase - nanoscale materials manufacturing		10,000
Program increase - compact efficient rotary engine		10,000
Program increase - lightweight high efficiency generators		10,000
Program increase - glass separators for lithium batteries		5,000
Program increase - advanced manufacturing cell for missile fins		5,000
Program increase - advanced manufacturing technology		5,000
Program increase - scalability of functional fabric manufacturing		5,000
Program increase - smart manufacturing of engineered fabrics		7,000
Program increase - tungsten manufacturing affordability initiative for armaments		5,000
267 DEFENSIVE CYBER - SOFTWARE PROTOTYPE DEVELOPMENT	46,445	56,706
Tool suite delays		-1,739
Program management - Army requested transfer from OP,A line 53		12,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-26,446

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COUNTER-UNMANNED AERIAL SYSTEMS

The agreement notes that the Department of the Army has been designated as the executive agent for the Joint Counter-Unmanned Aerial Systems (C-UAS) office, assuming responsibility for the development of enduring joint solutions to address the C-UAS threat. The agreement directs the Secretary of the Army to provide a report to the congressional defense committees, not later than 120 days after the enactment of this Act, that details the Army's management plan and assessment of C-UAS requirements. This report shall include, but is not limited to, a list of validated requirements; a detailed list of related acquisition programs across the Department of Defense; resourcing requirements; research and development priorities; an assessment of the need for a C-UAS center of excellence; and the organization, structure, and responsibilities of the Joint C-UAS office.

HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM

The agreement notes that responsibility for the High Performance Computing Modernization Program (HPCMP) was transferred to the Army in fiscal year 2012 with a requested funding level of \$183,150,000. Almost a decade later, the fiscal year 2021 President's budget request includes only \$188,024,000 for HPCMP. This level of investment is significantly less than if annual inflationary adjustments were applied to the program, even without program growth.

Originally focused on support to science and technology efforts, HPCMP now supports an expansive and ever-growing set of competencies, including digital engineering, virtual prototyping, and virtual testing. Therefore, the agreement directs the Secretary of Defense, in consultation with the Secretary of the Army, to perform a full review of the HPCMP program that includes, but is not limited to, an historical

assessment of the HPCMP mission and requirements; an analysis of historical investment levels compared to the full requirement; a determination of the adequacy of historical investment; the suitability of the current organizational structure within the Department; and a modernization strategy. The Secretary of Defense is directed to submit the findings in a report to the congressional defense committees not later than 120 days after the enactment of this Act.

SOLDIER ENHANCEMENT PROGRAM

The fiscal year 2021 President's budget request eliminates the Soldier Enhancement Program. Since its establishment by Congress in 1990, the program has served a unique and critical function in enabling the accelerated evaluation and procurement of off-the-shelf items that have the potential to substantially improve weapons and support equipment focused on critical warfighting functional areas of fires mission command, movement and maneuver, sustainability, and protection. The Soldier Enhancement Program is a low risk, low cost, high payoff investment that has demonstrated consistent success in close collaboration with industry to address mission-critical and training-critical soldier needs in a timely and cost-effective manner. Additionally, there have not been obvious changes in operational or threat environments that would obviate the ongoing need for this successful and critical capability. Therefore, the agreement directs the Secretary of the Army to preserve the Soldier Enhancement Program within the Program Executive Office Soldier and expects the Secretary of the Army to ensure that the program is fully funded in the fiscal year 2022 budget request.

EMERGING TECHNOLOGY INITIATIVES

The agreement supports the Army's Advanced Concepts program, managed by the Rapid Capabilities and Critical Technologies Office, in its pursuit of experimental prototyping and demonstration of selected technology through non-traditional engagements with industry by employing what it calls "innovation days." These types of direct engagements with industry are critical in identifying promising technologies and solutions to capability gaps that would otherwise fall outside of traditional acquisition programs. The ability to be agile with resourcing these smaller prototyping efforts is crucial to the success of the program and does not lend itself to traditional itemized accounting in budget exhibits, as individual programs may be undefined at the time of the annual President's budget submission. Therefore, the agreement recommends \$23,000,000, as requested in the budget submission, for the Army's Advanced Concepts program. Further, beginning with the second quarter of fiscal year 2021, the agreement directs the Director, Hypersonics, Directed Energy, Space and Rapid Acquisition to provide quarterly execution updates to the House and Senate Appropriations Committees not later than 30 days after the end of each fiscal quarter. This report shall include, but is not limited to, a schedule of innovation days for the current fiscal year, a list of active projects selected for funding, a narrative description of each project, obligation and expenditure data for each project, and metrics to determine success of selected projects.

ALTERNATIVE NAVIGATION SYSTEMS

The agreement notes that operational requirements for assured position, navigation, and timing alternative navigation (ALT NAV) systems are increasing rapidly as the Army looks to compete in a Global Positioning System denied or challenged environment.

These requirements are at risk of outpacing Service investments in the area. The Secretary of the Army is encouraged to ensure that sufficient resources are in place through the budget process and in execution of current year resources, to develop and field ALT NAV capabilities and the necessary broadcast service to enable such capabilities.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

The agreement provides \$20,078,829,000 for Research, Development, Test and Evaluation, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ e

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~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY		
BASIC RESEARCH		
1	UNIVERSITY RESEARCH INITIATIVES.....	116,816 144,816
2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	19,113 19,113
3	DEFENSE RESEARCH SCIENCES.....	467,158 489,984
	TOTAL, BASIC RESEARCH.....	603,087 653,913
APPLIED RESEARCH		
4	POWER PROJECTION APPLIED RESEARCH.....	17,792 38,792
5	FORCE PROTECTION APPLIED RESEARCH.....	122,281 209,781
6	MARINE CORPS LANDING FORCE TECHNOLOGY.....	50,623 55,623
7	COMMON PICTURE APPLIED RESEARCH.....	48,001 43,703
8	WARFIGHTER SUSTAINMENT APPLIED RESEARCH.....	67,765 116,255
9	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH.....	84,994 92,994
10	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH.....	63,392 80,284
11	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH.....	6,343 6,343
12	UNDERSEA WARFARE APPLIED RESEARCH.....	56,397 96,397
13	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH.....	167,590 170,724
14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH.....	30,715 33,215
15	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH....	160,537 161,725
16	SCIENCE AND TECHNOLOGY MANAGEMENT - ONR HEADQUARTERS..	76,745 76,745
	TOTAL, APPLIED RESEARCH.....	953,175 1,182,581
ADVANCED TECHNOLOGY DEVELOPMENT		
17	FORCE PROTECTION ADVANCED TECHNOLOGY.....	24,410 24,410
18	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY.....	8,008 23,008
19	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)..	219,045 250,292
20	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.....	13,301 13,301
21	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV.....	246,054 231,139
22	MANUFACTURING TECHNOLOGY PROGRAM.....	60,122 60,122
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY.....	4,851 33,151
24	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.....	40,709 40,709
25	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	1,948 1,948
26	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY.	141,948 159,948
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	760,396 838,028

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
27 DEMONSTRATION & VALIDATION		
MEDIUM AND LARGE UNMANNED SURFACE VEHICLES (USVS).....	464,042	93,700
MEDIUM UNMANNED SURFACE VEHICLES (MUSVS).....	---	55,402
28 AIR/OCEAN TACTICAL APPLICATIONS.....	35,386	35,386
29 AVIATION SURVIVABILITY.....	13,428	13,428
30 NAVAL CONSTRUCTION FORCES.....	2,350	2,350
31 AIRCRAFT SYSTEMS.....	418	418
32 ASW SYSTEMS DEVELOPMENT.....	15,719	18,719
33 TACTICAL AIRBORNE RECONNAISSANCE.....	3,411	3,411
34 ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	70,218	52,680
35 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	52,358	47,808
36 SURFACE SHIP TORPEDO DEFENSE.....	12,816	11,816
37 CARRIER SYSTEMS DEVELOPMENT.....	7,559	7,559
38 PILOT FISH.....	358,757	328,757
39 RETRACT LARCH.....	12,562	12,562
40 RETRACT JUNIPER.....	148,000	148,000
41 RADIOLOGICAL CONTROL.....	778	778
42 SURFACE ASW.....	1,161	1,161
43 ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	185,356	152,373
44 SUBMARINE TACTICAL WARFARE SYSTEMS.....	10,528	10,528
45 SHIP CONCEPT ADVANCED DESIGN.....	126,396	117,305
46 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	70,270	46,970
47 ADVANCED NUCLEAR POWER SYSTEMS.....	149,188	149,188
48 ADVANCED SURFACE MACHINERY SYSTEMS.....	38,449	40,681
49 CHALK EAGLE.....	71,181	71,181
50 LITTORAL COMBAT SHIP (LCS).....	32,178	42,178
51 COMBAT SYSTEM INTEGRATION.....	17,843	17,843
52 SSBN NEW DESIGN.....	317,196	317,196
53 LITTORAL COMBAT SHIP (LCS) MISSION MODULES.....	67,875	77,875
54 AUTOMATED TEST AND RE-TEST.....	4,797	34,797
55 FRIGATE DEVELOPMENT.....	82,309	82,309
56 CONVENTIONAL MUNITIONS.....	9,922	9,922
57 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	189,603	43,457
57A MARINE CORPS GROUND BASED ANTI-SHIP MISSILE.....	---	29,678
57B MARINE CORPS LONG RANGE FIRES.....	---	56,250

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
58 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	43,084	43,084
59 OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT.....	6,346	6,346
60 ENVIRONMENTAL PROTECTION.....	20,601	20,601
61 NAVY ENERGY PROGRAM.....	23,422	56,422
62 FACILITIES IMPROVEMENT.....	4,664	4,664
63 CHALK CORAL.....	545,763	426,577
64 NAVY LOGISTIC PRODUCTIVITY.....	3,884	3,884
65 RETRACT MAPLE.....	353,226	297,685
66 LINK PLUMERIA.....	544,388	482,418
67 RETRACT ELM.....	86,730	86,730
68 LINK EVERGREEN.....	236,234	201,984
70 NATO RESEARCH AND DEVELOPMENT.....	6,880	6,880
71 LAND ATTACK TECHNOLOGY.....	10,578	5,850
72 JOINT NONLETHAL WEAPONS TESTING.....	28,435	28,435
73 JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	33,612	33,612
74 DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS.....	128,845	126,895
75 F/A-18 INFRARED SEARCH AND TRACK (IRST).....	84,190	84,190
76 DIGITAL WARFARE.....	54,699	35,717
77 SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES.....	53,942	39,208
78 UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES.....	40,060	40,060
79 RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION..	12,100	12,100
80 LARGE UNMANNED UNDERSEA VEHICLES.....	78,122	62,557
81 GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER.....	107,895	104,895
82 AIRBORNE MINE COUNTERMEASURES.....	17,366	17,966
83 SURFACE MINE COUNTERMEASURES.....	18,754	18,754
84 TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES.....	59,776	50,281
85 EXPEDITIONARY LOGISTICS.....	---	5,000
86 FUTURE VERTICAL LIFT (MARITIME STRIKE).....	5,097	5,097
87 RAPID TECHNOLOGY CAPABILITY PROTOTYPE.....	3,664	5,664
88 LX (R).....	10,203	10,203
89 ADVANCED UNDERSEA PROTOTYPING.....	115,858	89,812
90 COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS).....	14,259	2,598
91 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM.....	1,102,387	79,417
91A CONVENTIONAL PROMPT GLOBAL STRIKE.....	---	767,637
92 SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE..	7,657	6,208

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
93 OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT.....	35,750	46,750
94 ASW SYSTEMS DEVELOPMENT - MIP.....	9,151	9,151
95 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM.....	22,589	28,439
97 ELECTRONIC WARFARE DEVELOPMENT - MIP.....	809	809
TOTAL, DEMONSTRATION & VALIDATION.....	6,503,074	5,488,246
ENGINEERING & MANUFACTURING DEVELOPMENT		
98 TRAINING SYSTEM AIRCRAFT.....	4,332	4,332
99 OTHER HELO DEVELOPMENT.....	18,133	23,133
100 AV-8B AIRCRAFT - ENG DEV.....	20,054	16,749
101 STANDARDS DEVELOPMENT.....	4,237	4,237
102 MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT.....	27,340	37,340
104 P-3 MODERNIZATION PROGRAM.....	606	606
105 WARFARE SUPPORT SYSTEM.....	9,065	14,982
106 TACTICAL COMMAND SYSTEM.....	97,968	124,896
107 ADVANCED HAWKEYE.....	309,373	275,813
108 H-1 UPGRADES.....	62,310	57,960
109 ACOUSTIC SEARCH SENSORS.....	47,182	47,182
110 V-22A.....	132,624	132,624
111 AIR CREW SYSTEMS DEVELOPMENT.....	21,445	21,445
112 EA-18.....	106,134	106,134
113 ELECTRONIC WARFARE DEVELOPMENT.....	134,194	131,914
114 EXECUTIVE HELO DEVELOPMENT.....	99,321	97,224
115 NEXT GENERATION JAMMER (NGJ).....	477,680	447,152
116 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY).....	232,818	234,180
117 NEXT GENERATION JAMMER (NGJ) INCREMENT II.....	170,039	165,614
118 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING.....	403,712	359,333
119 LPD-17 CLASS SYSTEMS INTEGRATION.....	945	945
120 SMALL DIAMETER BOMB (SDB).....	62,488	51,097
121 STANDARD MISSILE IMPROVEMENTS.....	386,225	307,518
122 AIRBORNE MCM.....	10,909	10,909
123 NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG.	44,548	42,160
124 ADVANCED SENSORS APPLICATION PROGRAM (ASAP).....	13,673	12,673
125 ADVANCED ABOVE WATER SENSORS.....	87,809	67,559
126 SSN-688 AND TRIDENT MODERNIZATION.....	93,097	93,097

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
127 AIR CONTROL.....	38,863	38,863
128 SHIPBOARD AVIATION SYSTEMS.....	9,593	11,593
129 COMBAT INFORMATION CENTER CONVERSION.....	12,718	12,718
130 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM.....	78,319	62,005
131 ADVANCED ARRESTING GEAR (AAG).....	65,834	65,834
132 NEW DESIGN SSN.....	259,443	243,263
133 SUBMARINE TACTICAL WARFARE SYSTEM.....	63,878	71,378
134 SHIP CONTRACT DESIGN/LIVE FIRE T&E.....	51,853	63,763
135 NAVY TACTICAL COMPUTER RESOURCES.....	3,853	3,853
136 MINE DEVELOPMENT.....	92,607	85,205
137 LIGHTWEIGHT TORPEDO DEVELOPMENT.....	146,012	115,752
138 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	8,383	8,383
139 USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG DEV..	33,784	29,467
140 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS....	8,599	7,269
141 JOINT STANDOFF WEAPON SYSTEMS.....	73,744	34,300
142 SHIP SELF DEFENSE (DETECT & CONTROL).....	157,490	153,095
143 SHIP SELF DEFENSE (ENGAGE: HARD KILL).....	121,761	94,961
144 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW).....	89,373	85,251
145 INTELLIGENCE ENGINEERING.....	15,716	12,422
146 MEDICAL DEVELOPMENT.....	2,120	39,620
147 NAVIGATION/ID SYSTEM.....	50,180	50,180
148 JOINT STRIKE FIGHTER (JSF) - EMD.....	561	561
149 JOINT STRIKE FIGHTER (JSF).....	250	250
150 SSN(X).....	1,000	1,000
151 MARINE CORPS IT DEV/MOD.....	974	974
152 INFORMATION TECHNOLOGY DEVELOPMENT.....	356,173	271,801
153 ANTI-TAMPER TECHNOLOGY SUPPORT.....	7,810	7,810
154 CH-53K.....	406,406	406,406
155 MISSION PLANNING.....	86,134	83,980
156 COMMON AVIONICS.....	54,540	54,540
157 SHIP TO SHORE CONNECTOR (SSC).....	5,155	12,655
158 T-AO 205 CLASS.....	5,148	2,087
159 UNMANNED CARRIER AVIATION.....	266,970	256,970
160 JOINT AIR-TO-GROUND MISSILE (JAGM).....	12,713	12,713

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
161 MULTI-MISSION MARITIME AIRCRAFT (MMA)	24,424	29,424
162 MULTI-MISSION MARITIME AIRCRAFT (MMA) INCREMENT 3.....	182,870	182,870
163 MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO.....	41,775	41,775
164 JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT AND DEMO.....	2,541	2,541
165 DDG-1000.....	208,448	223,448
169 TACTICAL CRYPTOLOGIC SYSTEMS.....	111,434	108,645
170 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	26,173	25,098
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	6,263,883	5,903,531
RDT&E MANAGEMENT SUPPORT		
171 THREAT SIMULATOR DEVELOPMENT.....	22,075	22,075
172 TARGET SYSTEMS DEVELOPMENT.....	10,224	10,224
173 MAJOR T&E INVESTMENT.....	85,195	105,195
175 STUDIES AND ANALYSIS SUPPORT - NAVY.....	3,089	3,089
176 CENTER FOR NAVAL ANALYSES.....	43,517	43,517
179 TECHNICAL INFORMATION SERVICES.....	932	932
180 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT.....	94,297	104,297
181 STRATEGIC TECHNICAL SUPPORT.....	3,813	3,813
183 RDT&E SHIP AND AIRCRAFT SUPPORT.....	104,822	104,822
184 TEST AND EVALUATION SUPPORT.....	446,960	419,212
185 OPERATIONAL TEST AND EVALUATION CAPABILITY.....	27,241	26,207
186 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT.....	15,787	15,787
187 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT.....	8,559	8,559
188 MARINE CORPS PROGRAM WIDE SUPPORT.....	42,749	37,749
189 MANAGEMENT HEADQUARTERS - R&D.....	41,094	41,094
190 WARFARE INNOVATION MANAGEMENT.....	37,022	33,171
193 INSIDER THREAT.....	2,310	2,310
194 MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES).....	1,536	1,536
TOTAL, RDT&E MANAGEMENT SUPPORT.....	991,222	983,589
OPERATIONAL SYSTEMS DEVELOPMENT		
199 HARPOON MODIFICATIONS.....	697	697
200 F-35 C2D2.....	379,549	349,879
201 F-35 C2D2.....	413,875	370,235

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
202 COOPERATIVE ENGAGEMENT CAPABILITY (CEC).....	143,667	134,602
204 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT.....	173,056	127,979
205 SSBN SECURITY TECHNOLOGY PROGRAM.....	45,970	45,970
206 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT.....	69,190	38,002
207 NAVY STRATEGIC COMMUNICATIONS.....	42,277	42,277
208 F/A-18 SQUADRONS.....	171,030	185,084
210 SURFACE SUPPORT.....	33,482	33,482
211 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)...	200,308	200,308
212 INTEGRATED SURVEILLANCE SYSTEM.....	102,975	112,860
213 SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS.....	10,873	10,873
214 AMPHIBIOUS TACTICAL SUPPORT UNITS.....	1,713	1,713
215 GROUND/AIR TASK ORIENTED RADAR.....	22,205	22,205
216 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT.....	83,956	75,756
218 ELECTRONIC WARFARE (EW) READINESS SUPPORT.....	56,791	42,986
219 HARM IMPROVEMENT.....	146,166	161,166
221 SURFACE ASW COMBAT SYSTEM INTEGRATION.....	29,348	29,348
222 MK-48 ADCAP.....	110,349	71,034
223 AVIATION IMPROVEMENTS.....	133,953	127,980
224 OPERATIONAL NUCLEAR POWER SYSTEMS.....	110,313	110,313
225 MARINE CORPS COMMUNICATIONS SYSTEMS.....	207,662	76,610
225A MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS.....	---	124,681
226 COMMON AVIATION COMMAND AND CONTROL SYSTEM	4,406	4,406
227 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS....	61,381	54,871
228 MARINE CORPS COMBAT SERVICES SUPPORT.....	10,421	10,421
229 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)....	29,977	29,977
230 AMPHIBIOUS ASSAULT VEHICLE.....	6,469	6,469
231 TACTICAL AIM MISSILES.....	5,859	5,859
232 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	44,323	40,869
236 SATELLITE COMMUNICATIONS (SPACE).....	41,978	50,978
237 CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES.....	29,684	34,684
238 INFORMATION SYSTEMS SECURITY PROGRAM.....	39,094	39,094
239 JOINT MILITARY INTELLIGENCE PROGRAMS.....	6,154	6,154
240 TACTICAL UNMANNED AERIAL VEHICLES.....	7,108	7,108
241 UAS INTEGRATION AND INTEROPERABILITY.....	62,098	62,098
242 DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS.....	21,500	21,500

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
244 MQ-4C TRITON.....	11,120	11,120
245 MQ-8 UAV.....	28,968	28,968
246 RQ-11 UAV.....	537	537
247 SMALL (LEVEL 0) TACTICAL UAS (STUASLO).....	8,773	8,773
248 RQ-21A.....	10,853	10,853
249 MULTI-INTELLIGENCE SENSOR DEVELOPMENT.....	60,413	60,413
250 UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP).....	5,000	5,000
251 CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	34,967	34,967
252 RQ-4 MODERNIZATION.....	178,799	129,164
253 INTELLIGENCE MISSION DATA (IMD).....	2,120	---
254 MODELING AND SIMULATION SUPPORT.....	8,683	8,683
255 DEPOT MAINTENANCE (NON-IF).....	45,168	60,168
256 MARITIME TECHNOLOGY (MARITECH).....	6,697	6,697
257 SATELLITE COMMUNICATIONS (SPACE).....	70,056	35,956
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	3,532,011	3,271,827
9999 CLASSIFIED PROGRAMS.....	1,795,032	1,817,987
258 RISK MANAGEMENT INFORMATION - SOFTWARE PILOT PROGRAM..	14,300	14,300
MARITIME TACTICAL COMMAND AND CONTROL (MTC2) -		
259 SOFTWARE PILOT PROGRAM.....	10,868	10,868
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-86,041
	=====	=====
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY.....	21,427,048	20,078,829
	=====	=====

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 UNIVERSITY RESEARCH INITIATIVES	116,816	144,816
Program increase - university research initiatives		10,000
Program increase - defense university research instrumentation program		10,000
Program increase - aircraft fleet readiness and sustainment		8,000
3 DEFENSE RESEARCH SCIENCES	467,158	489,984
Mathematics, computer, and information sciences unjustified growth		-4,174
Program increase - defense research sciences		15,000
Program increase - silicon-germanium-tin alloy research		5,000
Program increase - bio-inspired engineering and design for naval applications		3,000
Program increase - predictive modeling and simulation for next generation naval undersea vehicles and platforms research		2,000
Program increase - USV batteries, materials, and additive manufacturing		2,000
4 POWER PROJECTION APPLIED RESEARCH	17,792	38,792
Program increase - miniaturization of lasers		5,000
Program increase - high power microwave systems for counter-UAS defense		16,000
5 FORCE PROTECTION APPLIED RESEARCH	122,281	209,781
Program increase - direct air capture and blue carbon removal technology		7,500
Program increase - talent and technology for Navy power and energy systems		10,500
Program increase - power generation and storage research		5,000
Program increase - data-model fusion		3,000
Program increase - coastal environmental research		5,000
Program increase - advanced energetics research		5,000
Program increase - machine discovery and learning		2,000
Program increase - additive manufacturing of unmanned maritime systems		10,000
Program increase - Asia Pacific technology and education program		5,000
Program increase - low cost silicon solar cells		2,500
Program increase - Navy alternative energy research		25,000
Program increase - robust energy infrastructure research		7,000
6 MARINE CORPS LANDING FORCE TECHNOLOGY	50,623	55,623
Program increase - unmanned logistics solutions		5,000
7 COMMON PICTURE APPLIED RESEARCH	48,001	43,703
Applied information sciences for decision making excess growth		-3,277
Unjustified growth		-1,021

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	Budget Request	Final Bill
8 WARFIGHTER SUSTAINMENT APPLIED RESEARCH	67,765	116,255
Surveillance technology excess growth		-1,010
Program increase - health and safety research of underground fuel storage facilities		5,000
Program increase - humanoid robotics in unstructured environments		5,000
Program increase - human performance and injury rehabilitation assessment tool		2,500
Program increase - force health protection and application		5,000
Program increase - engineered systems to preserve and restore hearing after deleterious stimulation		5,000
Program increase - hypersonics materials acceleration		4,000
Program increase - laser peening technology for submarine and carrier shafts		3,000
Program increase - lightweight anti-corrosion nanotechnology coating enhancement		5,000
Program increase - physics based neutralization of threats to human tissues and organs		5,000
Program increase - polymer coatings for reduced ice and fouling adhesion		5,000
Program increase - social networks and computational social science		2,000
Program increase - warfighter as a system human digital twin research		3,000
9 ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	84,994	92,994
Program increase - navigation technology		3,000
Program increase - dark swarm in degraded environments		5,000
10 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	63,392	80,284
Unjustified growth		-2,108
Program increase - task force ocean		10,000
Program increase - naval special warfare superiority in underseas and maritime environments		5,000
Program increase - ocean acoustics for monitoring		4,000
12 UNDERSEA WARFARE APPLIED RESEARCH	56,397	96,397
Program increase - undersea sensing and communications		5,000
Program increase - cross domain autonomy for persistent maritime operations		10,000
Program increase - partnerships for undersea vehicle research		14,000
Program increase - resident undersea autonomous robotics		11,000
13 FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	167,590	170,724
Sea warfare and weapons excess growth		-2,461
Warfighter performance excess growth		-2,405
Program increase - cooperative engagement capability mission based networking for data distribution systems		3,000
Program increase - improved detection of submarine threats		5,000
14 MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	30,715	33,215
Program increase - robotics for mine neutralization		2,500

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Budget Request

Final Bill

15 INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH	160,537	161,725
CLAWS unjustified growth		-4,988
Full spectrum undersea warfare unjustified request		-7,824
Program increase - thermoplastic composites for lightweight naval applications		4,000
Program increase - thermoplastic tailorable universal feedstock composites		10,000
18 ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	8,008	23,008
Program increase - all digital radar technology		15,000
19 MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION	219,045	250,292
Command, control, communications, computers excess growth		-9,299
Combat service support and force protection excess growth		-7,054
Program increase - expeditionary process, exploitation, and dissemination		5,000
Program increase - Marine Corps force design acceleration - organic reconnaissance, surveillance, and target acquisition		4,500
Program increase - Marine Corps force design acceleration - closed classified wargaming network and naval integration		1,000
Program increase - Marine Corps force design acceleration - project Artemis		11,100
Program increase - adaptive threat force footprint		6,000
Program increase - ensuring defense and operational systems resilience for Marine Corps tactical cyber and spectrum maneuver		10,000
Program increase - Marine Corps missions support station demonstration		10,000
21 FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV	246,054	231,139
Long endurance airborne platform decoy concurrency		-4,818
DECAF unjustified request		-3,760
C-ENCAP program delays		-4,918
Air warfare FNCs program delays		-3,305
Surface warfare FNCs program delays		-4,418
Undersea warfare FNCs program delays		-4,696
Program increase - advanced energetics research		6,000
Program increase - development of submersible air revitalization		5,000
23 WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,851	33,151
Program increase - bone marrow registry program		24,300
Program increase - novel therapeutic interventions research		4,000
INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED		
26 TECHNOLOGY	141,948	159,948
Long range targeting concurrency		-2,000
Program increase - electromagnetic railgun		20,000

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	Budget Request	Final Bill
27 LARGE UNMANNED SURFACE VEHICLES	464,042	93,700
Transfer Medium Unmanned Surface Vehicle to line 27A (project 3428)		-26,302
Transfer Navy Large Unmanned Surface Vehicle program restructure to line 27A for Medium Unmanned Surface Vehicle program		-29,100
Navy Large Unmanned Surface Vehicle program restructure		-408,640
Navy Large Unmanned Surface Vehicle program restructure - warfare centers/program management only (project 3066)		28,100
Navy Large Unmanned Surface Vehicle program restructure - ghost fleet/overlord experimentation only (project 3066)		32,600
Navy Large Unmanned Surface Vehicle program restructure - large unmanned surface vehicles studies only (project 3066)		10,000
Navy Large Unmanned Surface Vehicle program restructure - autonomy, C2, elevated sensors, USV experimentation, technical and management services only (project 3067)		20,500
Navy Large Unmanned Surface Vehicle program restructure - RFP development and support only (project 3067)		2,500
27A MEDIUM UNMANNED SURFACE VEHICLES	0	55,402
Transfer Medium Unmanned Surface Vehicle from line 27 (project 3428)		26,302
Transfer Medium Unmanned Surface Vehicle machinery plant only, per Navy Large Unmanned Surface Vehicle program restructure from line 27		14,000
Transfer Naval Surface Warfare Center land-based engineering site for Medium Unmanned Surface Vehicle testing only, per Navy Large Unmanned Surface Vehicle program restructure from line 27		15,100
32 ASW SYSTEMS DEVELOPMENT	15,719	18,719
Program increase		3,000
34 ADVANCED COMBAT SYSTEMS TECHNOLOGY	70,218	52,680
LOCUST fixed wing tests funding early to need		-1,338
Advanced long range targeting funding early to need		-1,219
HIJENKS program restructure (project 3416)		-14,981
35 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	52,358	47,808
Barracuda schedule delays		-4,550
36 SURFACE SHIP TORPEDO DEFENSE	12,816	11,816
Torpedo warning systems funding excess to need		-1,000
38 PILOT FISH	358,757	328,757
Program adjustment		-30,000
43 ADVANCED SUBMARINE SYSTEM DEVELOPMENT	185,356	152,373
Project 9710 unjustified new start		-10,543
Project 9710 program delay		-27,430
Project 2096 material purchases for Block V VCS early to need		-4,010
Program increase - workforce partnership research		5,000
Program increase - improved CAVES technology		4,000

R-1	Budget Request	Final Bill
45 SHIP CONCEPT ADVANCED DESIGN	126,396	117,305
Cybersecurity previously funded		-1,500
Next generation medium amphibious ship excess to need		-6,000
Next generation medium logistics ship excess to need		-6,000
Project 4037 - funding for CHAMP submarine tender studies only		-10,591
Program increase - additive manufacturing		5,000
Program increase - polymorphic build farm for open source technologies		10,000
46 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	70,270	46,970
Project 0411 requirements and concept analysis excess growth		-16,200
Project 0411 preliminary design early to need		-17,100
Program increase - bridge integration program		10,000
48 ADVANCED SURFACE MACHINERY SYSTEMS	38,449	40,681
Power and energy systems contract award delay		-15,268
Program increase - silicon carbide power modules		10,000
Program increase - advanced power electronics integration		2,500
Program increase - small boat electric propulsion		5,000
50 LITTORAL COMBAT SHIP (LCS)	32,178	42,178
Program increase - defensive capability improvements		10,000
53 LITTORAL COMBAT SHIP (LCS) MISSION MODULES	67,875	77,875
Program increase - LCS anti-submarine warfare escort mission module test ship installation		10,000
54 AUTOMATED TEST AND RE-TEST	4,797	34,797
Program increase		30,000
57 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	189,603	43,457
Armored reconnaissance vehicle concurrency		-2,600
Long range unmanned surface vehicle concurrency		-4,339
Transfer Ground-based anti-ship missile (project 6637) to line 57A		-64,207
Transfer Long range fires (project 6638) to line 57B		-75,000
57A MARINE CORPS GROUND-BASED ANTI-SHIP MISSILE	0	29,678
Transfer Ground-based anti-ship missile (project 6637) from line 57		64,207
ROGUE vehicles and fire control systems acquisition concurrency with development		-25,429
GBASM missiles for user evaluation early to need		-9,100
57B MARINE CORPS LONG RANGE FIRES	0	56,250
Transfer Long range fires (project 6638) from line 57		75,000
Long range fires new start delay		-18,750
61 NAVY ENERGY PROGRAM	23,422	56,422
Program increase		15,000
Program increase - marine energy converters for sensors and microgrids		10,500
Program increase - natural gas technologies		7,500

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R-1	Budget Request	Final Bill
63 CHALK CORAL Program adjustment	545,763	426,577 -119,186
65 RETRACT MAPLE Program adjustment	353,226	297,685 -55,541
66 LINK PLUMERIA Program adjustment	544,388	482,418 -61,970
68 LINK EVERGREEN Program adjustment	236,234	201,984 -34,250
71 LAND ATTACK TECHNOLOGY Project 3401 continued lack of acquisition strategy	10,578	5,850 -4,728
74 DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS HELCAP concurrency Program increase - high energy laser weapon system for counter-UAS area defense	128,845	126,895 -6,950 5,000
76 DIGITAL WARFARE Historical underexecution Excess growth	54,699	35,717 -2,023 -16,959
77 SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES Project 3785 prior year funding	53,942	39,208 -14,734
80 LARGE UNMANNED UNDERSEA VEHICLES Contract award early to need	78,122	62,557 -15,565
81 GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER Integrated digital shipbuilding excess growth Program increase - electronic personnel qualification standards system	107,895	104,895 -7,000 4,000
82 AIRBORNE MINE COUNTERMEASURES Historical underexecution Program increase - coastal battlefield reconnaissance and analysis	17,366	17,966 -2,400 3,000
84 TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES DAIRCM hardware development contract award delay	59,776	50,281 -9,495
85 EXPEDITIONARY LOGISTICS Program increase - automated parts screening and selection tool for additive manufacturing Program increase - alternative tactical power and battery research	0	5,000 2,000 3,000
87 RAPID TECHNOLOGY CAPABILITY PROTOTYPE Historical underexecution Program increase - non-traditional small business support to Marine Corps Warfighting Laboratory	3,664	5,664 -1,000 3,000

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R-1	Budget Request	Final Bill
89 ADVANCED UNDERSEA PROTOTYPING	115,858	89,812
Test and evaluation delays		-26,046
90 COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS)	14,259	2,598
System development reduce duplication		-11,661
91 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	1,102,387	79,417
Miniature air launched decoy historical underexecution		-8,600
Advanced aerial refueling system lack of acquisition strategy		-5,995
Transfer Conventional prompt strike (project 3334) to line 91A		-1,008,375
91A CONVENTIONAL PROMPT STRIKE	0	767,637
Transfer Conventional prompt strike (project 3334) from line 91		1,008,375
Two missile round procurements excess to test requirements		-130,000
Block 2 missile design concurrency		-35,922
Apply SSN modification funding to test facilities consistent with Navy reprioritization		-64,816
Conventional prompt strike initial integration efforts - transfer to line 165		-15,000
Program increase - neutron radiographic inspection of cartridge and propellant actuated devices		5,000
SPACE & ELECTRONIC WARFARE (SEW)		
92 ARCHITECTURE/ENGINE	7,657	6,208
Historical underexecution		-1,449
OFFENSIVE ANTI-SURFACE WARFARE WEAPON		
93 DEVELOPMENT	35,750	46,750
LRASM funds - Navy requested transfer from line 141		11,000
95 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM	22,589	28,439
Project 3135 studies and experimentation, prototype development, modeling and simulation, test and evaluation growth		-10,650
Program increase - KMAX experimentation and support		7,000
Program increase - mobile unmanned/manned distributed lethality airborne network joint capability technology demonstration		7,000
Program increase - fused integrated naval network		2,500
99 OTHER HELO DEVELOPMENT	18,133	23,133
Program increase - CH-53E health usage monitoring system		5,000
100 AV-8B AIRCRAFT - ENG DEV	20,054	16,749
Historical underexecution		-3,305
102 MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	27,340	37,340
Program increase - MH-60 obsolescence issues		5,000
Program increase - MH-60 capability upgrades		5,000
105 WARFARE SUPPORT SYSTEM	9,065	14,982
Historical underexecution		-1,083
Program increase - COTS-based counter-UAV technology		5,000
Program increase - diesel fuel outboard motor testing		2,000

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R-1	Budget Request	Final Bill
106 TACTICAL COMMAND SYSTEM	97,968	124,896
NOBLE projects delay		-8,782
Revised logistics IT acquisition strategy - Navy requested transfer from line 152		35,710
107 ADVANCED HAWKEYE	309,373	275,813
Apply unjustified prior DSSC growth to DSSC-6		-22,000
DSSC-6 excess growth		-25,560
Program increase - E-2D Advanced Hawkeye radar		14,000
108 H-1 UPGRADES	62,310	57,960
Historical underexecution		-4,350
113 ELECTRONIC WARFARE DEVELOPMENT	134,194	131,914
Historical underexecution		-6,397
Dual band decoy risk reduction early to need		-6,883
Program increase - intrepid tiger II		11,000
114 EXECUTIVE HELO DEVELOPMENT	99,321	97,224
VH-92A product improvement development unjustified growth		-2,097
115 NEXT GENERATION JAMMER (NGJ)	477,680	447,152
Historical underexecution		-29,199
Trainer early to need		-1,329
116 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY)	232,818	234,180
ATDLS integration delays		-2,638
Program increase - multifunctional information distribution system acceleration		4,000
117 NEXT GENERATION JAMMER (NGJ) INCREMENT II	170,039	165,614
Primary hardware development contract delay		-4,425
118 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	403,712	359,333
Aegis development support excess growth		-12,845
Aegis capability build 2023-1 excess to need		-31,534
120 SMALL DIAMETER BOMB (SDB)	62,488	51,097
Historical underexecution		-11,391
121 STANDARD MISSILE IMPROVEMENTS	386,225	307,518
Interim capability development excess growth		-47,807
SM-6 Block IB mission integration, development, and operational test		-18,400
Electronics unit joint program lack of justification		-12,500
NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS		
123 ENG	44,548	42,160
Historical underexecution		-2,388
124 ADVANCED SENSORS APPLICATION PROGRAM	13,673	12,673
Poor justification		-1,000

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R-1	Budget Request	Final Bill
125 ADVANCED ABOVE WATER SENSORS Project 3423 one unit early to need	87,809	67,559 -20,250
128 SHIPBOARD AVIATION SYSTEMS Program increase - fleet strike group aviation management	9,593	11,593 2,000
130 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM Hardware production and sustainment early to need	78,319	62,005 -16,314
132 NEW DESIGN SSN Future payloads integration early to need Program increase - out-of-autoclave technology for submarines	259,443	243,263 -26,180 10,000
133 SUBMARINE TACTICAL WARFARE SYSTEM Program increase - combat systems of the future end-to-end cyber security tools	63,878	71,378 7,500
134 SHIP CONTRACT DESIGN/LIVE FIRE T&E Historical underexecution Program increase - DDG-51 advanced degaussing mine protection system ESB pilot program	51,853	63,763 -2,590 7,000 7,500
136 MINE DEVELOPMENT Encapsulate effector program delays	92,607	85,205 -7,402
137 LIGHTWEIGHT TORPEDO DEVELOPMENT Project 3418 platform integration early to need	146,012	115,752 -30,260
USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG		
139 DEV Increment II program delays	33,784	29,467 -4,317
140 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS Historical underexecution	8,599	7,269 -1,330
141 JOINT STANDOFF WEAPON SYSTEMS LRASM funds - Navy requested transfer to line 93 Funding excess to need	73,744	34,300 -11,000 -28,444
142 SHIP SELF DEFENSE (DETECT & CONTROL) Historical underexecution	157,490	153,095 -4,395
143 SHIP SELF DEFENSE (ENGAGE: HARD KILL) Project 0173 excess new starts	121,761	94,961 -26,800
144 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW) SEWIP block 3 government engineering previously funded	89,373	85,251 -4,122
145 INTELLIGENCE ENGINEERING Non-kinetic countermeasures support contract delays	15,716	12,422 -3,294

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R-1	Budget Request	Final Bill
146 MEDICAL DEVELOPMENT	2,120	39,620
Program increase - wound care research		10,000
Program increase - military dental research		10,000
Program increase - autonomous aerial technology for distributed logistics		7,500
Program increase - ETEC enteric disease research		10,000
152 INFORMATION TECHNOLOGY DEVELOPMENT	356,173	271,801
Historical underexecution		-12,972
Revised logistics IT acquisition strategy - Navy requested transfer from project 3432 to line 106		-35,710
Project 3432 growth prior to change in acquisition strategy		-45,690
Program increase - cyber solutions for aviation systems and facilities		7,000
Program increase - cyber innovations in classified environments		3,000
155 MISSION PLANNING	86,134	83,980
STORM unjustified growth		-2,154
157 SHIP TO SHORE CONNECTOR (SSC)	5,155	12,655
Program increase - naval hovercraft propulsion applications		7,500
158 T-AO 205 CLASS	5,148	2,087
Operational and live fire test schedule delays		-3,061
159 UNMANNED CARRIER AVIATION	266,970	256,970
Air segment ESA excess to need		-10,000
161 MULTI-MISSION MARITIME AIRCRAFT (MMA)	24,424	29,424
Program increase - small business technology insertion		5,000
165 DDG-1000	208,448	223,448
Conventional prompt strike initial integration efforts - transfer from line 91A		15,000
169 TACTICAL CRYPTOLOGIC SYSTEMS	111,434	108,645
Historical underexecution		-2,789
170 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	26,173	25,098
Historical underexecution		-1,075
173 MAJOR T&E INVESTMENT	85,195	105,195
Program increase - undersea range modernization		10,000
Program increase - integrated sensor effectiveness test		10,000
180 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	94,297	104,297
Program increase - printed circuit board executive agent		10,000
184 TEST AND EVALUATION SUPPORT	446,960	419,212
China Lake earthquake recovery - Navy requested transfer to OM,N line BSM1		-27,748
185 OPERATIONAL TEST AND EVALUATION CAPABILITY	27,241	26,207
OPTEVFOR support funding realignment not properly accounted		-1,034

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R-1	Budget Request	Final Bill
188 MARINE CORPS PROGRAM WIDE SUPPORT	42,749	37,749
Project 3009 excess growth		-5,000
190 WARFARE INNOVATION MANAGEMENT	37,022	33,171
Historical underexecution		-3,851
200 F-35 C2D2	379,549	349,879
Air vehicle - technology refresh 3	[60,429]	[60,429]
Air vehicle block 4 planning and sys eng	[105,662]	[92,724]
Phase II efforts unjustified program growth		-12,938
Test and evaluation	[98,484]	[98,484]
Propulsion	[13,815]	[13,815]
Maintenance systems/ALIS development	[20,075]	[11,575]
Acquisition strategy for ALIS LM efforts		-8,500
Combat data systems	[23,180]	[23,180]
Training systems and simulation	[35,382]	[23,229]
Unjustified growth		-12,153
Infrastructure and support costs	[7,067]	[3,489]
Fixed JPO support forward financing		-2,058
Fixed JPO support		-1,520
DevSecOps	[2,200]	[2,200]
Statutory reductions	[13,255]	[12,054]
Unjustified program growth		-1,201
Program increase - advanced countermeasure dispenser system for F-35B		8,700
201 F-35 C2D2	413,875	370,235
Air vehicle - technology refresh 3	[65,465]	[65,465]
Air vehicle block 4 planning and sys eng	[142,147]	[124,742]
Phase II efforts unjustified program growth		-17,405
Test and evaluation	[85,972]	[85,972]
Propulsion	[14,820]	[14,820]
Maintenance systems/ALIS development	[20,075]	[11,575]
Acquisition strategy for ALIS LM efforts		-8,500
Combat data systems	[24,266]	[24,266]
Training systems and simulation	[37,402]	[24,555]
Unjustified growth in BPAC 676011		-12,847
Infrastructure and support costs	[7,067]	[3,489]
Fixed JPO support forward financing		-2,058
Fixed JPO support		-1,520
DevSecOps	[2,200]	[2,200]
Statutory reductions	[14,461]	[13,151]
Unjustified program growth		-1,310
202 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	143,667	134,602
Historical underexecution		-4,688
CEC cyber resiliency excess growth		-2,577
FIRECAP unjustified new start		-1,800

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R-1	Budget Request	Final Bill
204 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	173,056	127,979
Project 2228 D5LE2 growth for submarine launched ballistic missile and strategic guidance technologies		-57,077
Program increase - next generation strategic inertial measurement unit		6,000
Program increase - scalable very high temperature composite manufacturing technologies		6,000
206 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	69,190	38,002
Submarine torpedo defense system schedule slip		-4,764
Compact rapid attack weapon concurrency		-35,924
Program increase - acoustic device countermeasures		9,500
208 F/A-18 SQUADRONS	171,030	185,084
Multi-system integration/common tactical picture previously funded		-2,946
Program increase - Growler noise mitigation research		4,000
Program increase - beacon obsolescence issues		3,000
Program increase - fifth generation sensor fusion study		10,000
212 INTEGRATED SURVEILLANCE SYSTEM	102,975	112,860
Historical underexecution		-2,615
Program increase - maritime surveillance system sensor and signal processing performance improvements		12,500
216 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	83,956	75,756
Project 1427 unjustified new start		-8,200
218 ELECTRONIC WARFARE (EW) READINESS SUPPORT	56,791	42,986
Project 2263 unjustified growth		-5,886
Project 3426 unjustified growth		-7,919
219 HARM IMPROVEMENT	146,166	161,166
Program increase		15,000
222 MK-48 ADCAP	110,349	71,034
APB 7 development early to need		-2,140
TI-1 hardware development prior year contract award delay		-28,625
TI-2 prototypes early to need		-8,550
223 AVIATION IMPROVEMENTS	133,953	127,980
Historical underexecution		-5,973
225 MARINE CORPS COMMUNICATIONS SYSTEMS	207,662	76,610
Air defense weapons systems (project 2278) - transfer to line 225A		-131,052
225A MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS	0	124,681
Air defense weapons systems (project 2278) - transfer from line 225		131,052
Project 2278 MRIC test and evaluation resources for engineering support only, per Marine Corps-identified requirement		[9,200]
Project 2278 increment 3 test and evaluation early to need		-12,671
Program increase - L-MADIS systems		6,300

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R-1	Budget Request	Final Bill
MARINE CORPS GROUND COMBAT/SUPPORTING ARMS		
227 SYSTEMS	61,381	54,871
Historical underexecution		-6,510
232 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	44,323	40,869
Test and evaluation previously funded		-1,727
System improvement program efforts failure to comply with congressional direction		-1,727
236 SATELLITE COMMUNICATIONS (SPACE)	41,978	50,978
Program increase - Navy multiband terminal program interference mitigation technology test		9,000
237 CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES	29,684	34,684
Program increase - network and data center intelligent agent program		5,000
252 RQ-4 MODERNIZATION	178,799	129,164
Excess cost growth		-49,635
253 INTELLIGENCE MISSION DATA (IMD)	2,120	0
Unjustified new start		-2,120
255 DEPOT MAINTENANCE (NON-IF)	45,168	60,168
Program increase - defense industrial skills and technology training		5,000
Program increase - portable high pressure cold spray system		10,000
257 SATELLITE COMMUNICATIONS (SPACE)	70,056	35,956
MUOS (project 2472) follow-on engineering and contract acquisition planning		-34,100
999 CLASSIFIED PROGRAMS	1,795,032	1,817,987
Classified adjustment		22,955
UNDISTRIBUTED REDUCTION - EXCESS TO NEED	0	-86,041

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SMALL BUSINESS INNOVATION RESEARCH PROGRAM

The Small Business Innovation Research Program (SBIR) is designed to attract small technology companies to participate in federally sponsored research and development in order to enable advances in innovative technology disruption. It is noted that despite significant investment and acquisition preference for SBIR companies, there are few signs of creative disruptions, and it is further noted that the failure of the Department of Defense to capitalize on SBIR investments and incorporate disruptive innovation is demonstrated by the repeated failure of the Navy to sufficiently resource the Automated Test and Retest (ATRT) program, which has produced transformative technology, including the ATRT/AEGIS Virtual Twin. The agreement includes a total of \$34,797,000 for the ATRT program. Additionally, the Secretary of the Navy is directed to adhere to SBIR law and use SBIR awardees to the greatest extent practicable thus allowing and assisting SBIR awardees to commercialize technologies related to those developed under SBIR Phase I, II, and III awards.

OFFICE OF NAVAL RESEARCH BUDGET STRUCTURE AND BUDGET JUSTIFICATION MATERIALS

Previously stated direction contained in Senate Report 116-103 regarding the program element structure for Navy science and technology projects is reiterated in this agreement. Further, it is noted that acquisition-type prototyping efforts managed by the Office of Naval Research (ONR) require additional oversight, fiscal clarity, and adherence to financial management practices in order to avoid the schedule and cost growth seen, for instance, in the Solid State Laser-Technology Maturation program. Finally, concerns remain with the lack of timely transmission, as well as the format, of classified project and budget details for ONR efforts. The Assistant Secretary of the

Navy (Financial Management and Comptroller) and the Chief, Naval Research, are directed, not later than 30 days after the enactment of this Act, to present a plan to the congressional defense committees to ensure that ONR's classified project-specific information, required by the congressional defense committees for their budget review, be provided concurrent with submission of the President's budget in the appropriate format.

MARINE CORPS FORCE DESIGN INITIATIVES

Shortly after submission of the fiscal year 2021 President's budget request, the Commandant of the Marine Corps released "Force Design 2030," followed by the submission to Congress of an above threshold reprogramming request to accelerate certain technology development efforts in support of Force Design efforts. This reprogramming request was approved by all four congressional defense committees, and additional appropriations are recommended in fiscal year 2021 to continue this acceleration. It is expected that these programs will be fully funded in the fiscal year 2022 President's budget request.

Further, the fiscal year 2021 President's budget request includes several acquisition programs that support the Commandant's Force Design, including the Ground-Based Anti-Ship Missile, Long Range Fires, Organic Precision Fires, and the Long-Range Unmanned Surface Vessel programs. There is concern that the Marine Corps is overly dependent on prototyping and mid-tier acquisition fielding authorities for developing these programs. Therefore, the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to review the Marine Corps' acquisition strategies for these and other programs related to Force Design, and to certify their appropriate use to the

congressional defense committees not later than with the submission of the fiscal year 2022 President's budget request.

FUTURE SURFACE COMBATANT FORCE

The fiscal year 2021 President's budget request includes \$46,453,000 in program element 0603564N for requirements development, prototyping, and preliminary contract design of a new Large Surface Combatant (LSC) class to succeed the current DDG-51 Flight III destroyer. Additionally, \$19,020,000 is included in program element 0603563N for requirements and concept analysis of an LSC. Despite repeated delays to the LSC program, the Navy has reduced the acquisition profile for DDG-51 Flight III destroyers in recent budget submissions, and has not delineated a clear acquisition path for large surface combatants following the conclusion of the current DDG-51 Flight III destroyer multi-year procurement contract in fiscal year 2022. Absent a clear understanding of future Navy LSC force structure requirements and acquisition strategies, the proposed increase in funding for LSC, to include \$17,100,000 in preliminary design efforts, is not supported.

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

and to certify full funding in the budget request for each respective acquisition strategy of the SCEP elements.

AEGIS BASELINES BUDGET ESTIMATES

As previously expressed in Senate Report 116-103, concerns remain with the lack of stability in scope and costs of AEGIS baselines from one budget submission to the next and the lack of associated details in budget justification materials. The Department of the Navy Program Executive Officer, Integrated Warfare Systems, and the Missile Defense Agency Program Executive, Sea-Based Weapons Systems, are directed to provide to the congressional defense committees, not later than 30 days after the enactment of this Act, a joint acquisition baseline for AEGIS development efforts.

CH-53K SYSTEM DEMONSTRATION TEST ARTICLE AIRCRAFT

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

NAVAL EXPEDITIONARY SUSTAINMENT AND REPAIR

The agreement recognizes the value of aligning technology-based solutions with expeditionary shipboard sustainment and repair concepts of operations to improve warship resiliency, lethality, and availability. The Secretary of the Navy is urged to continue investment in these areas.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

The agreement provides \$36,357,443,000 for Research, Development, Test and Evaluation, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

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~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE		
1	BASIC RESEARCH DEFENSE RESEARCH SCIENCES.....	315,348 325,348
2	UNIVERSITY RESEARCH INITIATIVES.....	161,861 196,861
3	HIGH ENERGY LASER RESEARCH INITIATIVES.....	15,085 15,085
	TOTAL, BASIC RESEARCH.....	492,294 537,294
APPLIED RESEARCH		
4	FUTURE AF CAPABILITIES APPLIED RESEARCH.....	100,000 80,000
5	MATERIALS.....	140,781 238,281
6	AEROSPACE VEHICLE TECHNOLOGIES.....	349,225 164,726
7	HUMAN EFFECTIVENESS APPLIED RESEARCH.....	115,222 134,122
8	AEROSPACE PROPULSION.....	--- 201,415
9	AEROSPACE SENSORS.....	211,301 233,301
11	SCIENCE AND TECHNOLOGY MANAGEMENT - MAJOR HEADQUARTERS	8,926 8,926
12	CONVENTIONAL MUNITIONS.....	132,425 127,425
13	DIRECTED ENERGY TECHNOLOGY.....	128,113 130,613
14	DOMINANT INFORMATION SCIENCES AND METHODS.....	178,668 215,668
15	HIGH ENERGY LASER RESEARCH.....	45,088 29,208
	TOTAL, APPLIED RESEARCH.....	1,409,749 1,563,685
ADVANCED TECHNOLOGY DEVELOPMENT		
17	AF FOUNDATIONAL DEVELOPMENT/DEMOS.....	103,280 ---
18	FUTURE AF INTEGRATED TECHNOLOGY DEMOS.....	157,619 147,619
19	NEXT GEN PLATFORM DEV/DEMO.....	199,556 ---
20	PERSISTENT KNOWLEDGE, AWARENESS, & C2 TECH.....	102,276 ---
21	NEXT GEN EFFECTS DEV/DEMOS.....	215,817 ---
22	ADVANCED MATERIALS FOR WEAPON SYSTEMS.....	--- 60,169
23	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T).....	--- 16,933
24	ADVANCED AEROSPACE SENSORS.....	--- 35,338
25	AEROSPACE TECHNOLOGY DEV/DEMO.....	--- 62,230
26	AEROSPACE PROPULSION AND POWER TECHNOLOGY.....	--- 144,492
27	ELECTRONIC COMBAT TECHNOLOGY.....	--- 35,906
28	ADVANCED SPACECRAFT TECHNOLOGY.....	--- 87,768
29	MAUI SPACE SURVEILLANCE SYSTEM (MSSS).....	--- 12,090
30	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT...	--- 31,725

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
31	CONVENTIONAL WEAPONS TECHNOLOGY.....	--- 134,145
32	ADVANCED WEAPONS TECHNOLOGY.....	--- 31,445
33	MANUFACTURING TECHNOLOGY PROGRAM.....	--- 139,001
34	BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION.....	--- 63,221
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	778,548 1,002,082
38	ADVANCED COMPONENT DEVELOPMENT INTELLIGENCE ADVANCED DEVELOPMENT.....	4,320 4,320
39	COMBAT IDENTIFICATION TECHNOLOGY.....	26,396 26,396
40	NATO RESEARCH AND DEVELOPMENT.....	3,647 3,647
41	IBCM DLM/VAL.....	32,959 32,959
43	AIR FORCE WEATHER SERVICES RESEARCH.....	869 2,238
44	ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS).....	302,323 158,782
45	ADVANCED ENGINE DEVELOPMENT.....	636,495 666,495
46	LONG RANGE STRIKE.....	2,848,410 2,848,410
47	DIRECTED ENERGY PROTOTYPING.....	20,964 19,464
48	HYPERSONICS PROTOTYPING.....	381,862 386,862
50	ADVANCED TECHNOLOGY AND SENSORS.....	24,747 24,747
51	NATIONAL AIRBORNE OPS CENTER (NAOC) RECAP.....	76,417 59,498
52	TECHNOLOGY TRANSFER.....	3,011 17,011
53	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM.....	52,921 52,921
54	CYBER RESILIENCY OF WEAPON SYSTEMS-ACS.....	69,783 69,783
55	DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D.....	25,835 25,835
56	TECH TRANSITION PROGRAM.....	219,252 306,502
56A	RAPID SUSTAINMENT MODERNIZATION.....	--- 20,000
57	GROUND BASED STRATEGIC DETERRENT.....	1,524,759 1,449,759
59	NEXT GENERATION AIR DOMINANCE.....	1,044,089 904,089
60	THREE DIMENSIONAL LONG-RANGE RADAR.....	19,356 19,356
61	AIRBASE AIR DEFENSE SYSTEMS (ABADS).....	8,737 8,737
62	UNIFIED PLATFORM (UP).....	5,990 5,990
63	COMMON DATA LINK EXECUTIVE AGENT (CDL EA).....	39,293 39,293
65	MISSION PARTNER ENVIRONMENTS.....	11,430 11,430
66	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	259,823 234,823
66A	CCSO TECH DEVELOPMENT.....	--- 20,000
67	ENABLED CYBER ACTIVITIES.....	10,560 10,560

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
68 C-32 EXECUTIVE TRANSPORT RECAPITALIZATION.....	9,908	6,208
69 CONTRACTING INFORMATION TECHNOLOGY SYSTEM.....	8,662	5,672
74 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT).....	8,787	---
77 SPACE SECURITY AND DEFENSE PROGRAM.....	56,311	---
TOTAL, ADVANCED COMPONENT DEVELOPMENT.....	7,737,916	7,441,787
ENGINEERING & MANUFACTURING DEVELOPMENT		
82 FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS.....	25,161	22,936
83 PNT RESILIENCY, MODS AND IMPROVEMENTS.....	38,564	38,564
84 NUCLEAR WEAPONS SUPPORT.....	35,033	26,105
85 ELECTRONIC WARFARE DEVELOPMENT.....	2,098	2,098
86 TACTICAL DATA NETWORKS ENTERPRISE.....	131,909	121,409
87 PHYSICAL SECURITY EQUIPMENT.....	6,752	6,752
88 SMALL DIAMETER BOMB (SDB).....	17,280	---
90 ARMAMENT/ORDNANCE DEVELOPMENT.....	23,076	23,076
91 SUBMUNITIONS.....	3,091	3,091
92 AGILE COMBAT SUPPORT.....	20,609	19,015
93 JOINT DIRECT ATTACK MUNITION.....	7,926	6,818
94 LIFE SUPPORT SYSTEMS.....	23,660	28,660
95 COMBAT TRAINING RANGES.....	8,898	23,898
96 F-35 - EMD.....	5,423	5,423
97 LONG RANGE STANDOFF WEAPON.....	474,430	385,430
98 ICBM FUZE MODERNIZATION.....	167,099	156,979
100 OPEN ARCHITECTURE MANAGEMENT.....	30,547	30,547
102 ADVANCED PILOT TRAINING.....	248,669	248,669
103 COMBAT RESCUE HELICOPTER.....	63,169	63,169
105 NUCLEAR WEAPONS MODERNIZATION.....	9,683	9,683
106 F-15 EPAWSS.....	170,679	170,679
107 STAND IN ATTACK WEAPON.....	160,438	150,646
108 FULL COMBAT MISSION TRAINING.....	9,422	9,422
110 COMBAT SURVIVOR EVADER LOCATOR.....	973	973
111 KC-46A TANKER SQUADRONS.....	106,262	76,162
113 PRESIDENTIAL AIRCRAFT REPLACEMENT.....	800,889	800,889
114 AUTOMATED TEST SYSTEMS.....	10,673	10,673
115 TRAINING DEVELOPMENTS.....	4,479	4,479

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
116 AF A1 SYSTEMS.....	8,467	7,467
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	2,615,359	2,453,712
RDT&E MANAGEMENT SUPPORT		
131 THREAT SIMULATOR DEVELOPMENT.....	57,725	57,725
132 MAJOR T&E INVESTMENT.....	208,680	208,680
133 RAND PROJECT AIR FORCE.....	35,803	35,803
135 INITIAL OPERATIONAL TEST & EVALUATION.....	13,557	13,557
136 TEST AND EVALUATION SUPPORT.....	764,606	764,606
137 ACQ WORKFORCE- GLOBAL POWER.....	---	271,276
138 ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS.....	---	255,233
139 ACQ WORKFORCE- GLOBAL REACH.....	---	158,429
140 ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS.....	---	255,162
141 ACQ WORKFORCE- GLOBAL BATTLE MGMT.....	---	177,811
142 ACQ WORKFORCE- CAPABILITY INTEGRATION.....	1,362,038	219,868
143 ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY.....	40,768	58,584
144 ACQ WORKFORCE- NUCLEAR SYSTEMS.....	179,646	179,646
145 MANAGEMENT HQ - R&D.....	5,734	5,734
146 FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL..	70,985	70,985
147 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT..	29,880	29,880
148 REQUIREMENTS ANALYSIS AND MATURATION.....	63,381	68,381
149 MANAGEMENT HQ - T&E.....	5,785	5,785
COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS (C4) -		
150 STRATCOM.....	24,564	21,564
151 ENTERPRISE INFORMATION SERVICES (EIS).....	9,883	9,883
152 ACQUISITION AND MANAGEMENT SUPPORT.....	13,384	13,384
153 GENERAL SKILL TRAINING.....	1,262	1,262
155 INTERNATIONAL ACTIVITIES.....	3,599	3,599
TOTAL, RDT&E MANAGEMENT SUPPORT.....	2,891,280	2,886,837
OPERATIONAL SYSTEMS DEVELOPMENT		
163 SPECIALIZED UNDERGRADUATE FLIGHT TRAINING.....	8,777	11,577
164 DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D.....	499	499
165 F-35 C2D2.....	785,336	697,140
166 AIR FORCE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM..	27,035	27,035
167 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY.....	50,508	47,193

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
168 FOREIGN MATERIEL ACQUISITION AND EXPLOITATION.....	71,229	71,229
169 HC/MC-130 RECAP RDT&E.....	24,705	19,527
170 NC3 INTEGRATION.....	26,356	26,356
171 ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES.....	---	3,000
172 B-52 SQUADRONS.....	520,023	483,623
173 AIR-LAUNCHED CRUISE MISSILE (ALCM).....	1,433	1,433
174 B-1B SQUADRONS.....	15,766	15,766
175 B-2 SQUADRONS.....	187,399	181,399
176 MINUTEMAN SQUADRONS.....	116,569	89,469
177 WORLDWIDE JOINT STRATEGIC COMMUNICATIONS.....	27,235	31,223
178 INTEGRATED STRATEGIC PLANNING & ANALYSIS NETWORK.....	24,227	24,227
179 ICBM REENTRY VEHICLES.....	112,753	112,753
181 UH-1N REPLACEMENT PROGRAM.....	44,464	41,464
182 REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION..	5,929	10,724
183 NORTH WARNING SYSTEM (NWS).....	100	100
184 MQ-9 UAV.....	162,080	107,080
186 A-10 SQUADRONS.....	24,535	24,535
187 F-16 SQUADRONS.....	223,437	202,868
188 F-15E SQUADRONS.....	298,908	288,908
189 MANNED DESTRUCTIVE SUPPRESSION.....	14,960	14,960
190 F-22 SQUADRONS.....	665,038	665,038
191 F-35 SQUADRONS.....	132,229	114,830
192 F-15EX.....	159,761	159,761
193 TACTICAL AIM MISSILES.....	19,417	19,417
194 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	51,799	51,799
SMALL DIAMETER BOMB (SDB).....	---	20,780
195 COMBAT RESCUE - PARARESCUE.....	669	669
196 AF TENCAP.....	21,644	21,644
197 PRECISION ATTACK SYSTEMS PROCUREMENT.....	9,261	9,261
198 COMPASS CALL.....	15,854	15,854
199 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	95,896	125,896
200 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM).....	70,792	70,792
201 AIR AND SPACE OPERATIONS CENTER (AOC).....	51,187	51,187
202 CONTROL AND REPORTING CENTER (CRC).....	16,041	16,041

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
203 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS).....	138,303	124,151
204 TACTICAL AIRBORNE CONTROL SYSTEMS.....	4,223	4,223
206 COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES.....	16,564	16,564
207 THEATER BATTLE MANAGEMENT (TBM) C41.....	7,858	7,858
208 TACTICAL AIR CONTROL PARTY--MOD.....	12,906	12,906
210 DCAPEs.....	14,816	14,816
211 AIR FORCE CALIBRATION PROGRAMS.....	1,970	1,970
212 NATIONAL TECHNICAL NUCLEAR FORENSICS.....	396	396
213 SEEK EAGLE.....	29,680	29,680
214 USAF MODELING AND SIMULATION.....	17,666	17,666
215 WARGAMING AND SIMULATION CENTERS.....	6,353	6,353
216 BATTLEFIELD ABN COMM NODE (BACN).....	6,827	6,827
217 DISTRIBUTED TRAINING AND EXERCISES.....	3,390	3,390
218 MISSION PLANNING SYSTEMS.....	91,768	91,768
219 TACTICAL DECEPTION.....	2,370	---
220 OPERATIONAL HG - CYBER.....	5,527	5,527
221 DISTRIBUTED CYBER WARFARE OPERATIONS.....	68,279	68,279
222 AF DEFENSIVE CYBERSPACE OPERATIONS.....	15,165	30,165
223 JOINT CYBER COMMAND AND CONTROL (JCC2).....	38,480	38,480
224 UNIFIED PLATFORM (UP).....	84,645	84,645
230 GEOBASE.....	2,767	2,767
231 NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES).....	32,759	32,759
238 AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS.....	2,904	1,404
239 E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC).....	3,468	3,468
240 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	61,887	44,722
242 INFORMATION SYSTEMS SECURITY PROGRAM.....	10,351	10,351
243 GLOBAL FORCE MANAGEMENT - DATA INITIATIVE.....	1,346	1,346
246 AIRBORNE SIGINT ENTERPRISE.....	128,110	128,110
247 COMMERCIAL ECONOMIC ANALYSIS.....	4,042	4,042
251 CCMD INTELLIGENCE INFORMATION TECHNOLOGY.....	1,649	1,649
252 ISR MODERNIZATION & AUTOMATION DVMT (IMAD).....	19,265	19,265
253 GLOBAL AIR TRAFFIC MANAGEMENT (GATM).....	4,645	4,645
254 CYBER SECURITY INITIATIVE.....	384	384
255 WEATHER SERVICE.....	23,640	36,640

133F

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
256 AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC).	6,553	6,553
257 AERIAL TARGETS.....	449	449
260 SECURITY AND INVESTIGATIVE ACTIVITIES.....	432	432
262 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	4,890	4,890
264 INTEGRATED BROADCAST SERVICE.....	8,864	8,864
265 DRAGON U-2.....	18,660	36,660
267 AIRBORNE RECONNAISSANCE SYSTEMS.....	121,512	123,512
268 MANNED RECONNAISSANCE SYSTEMS.....	14,711	14,711
269 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	14,152	14,152
270 RQ-4 UAV.....	134,589	163,589
271 NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA).....	15,049	15,049
272 NATO AGS.....	36,731	36,731
273 SUPPORT TO DCGS ENTERPRISE.....	33,547	33,547
INTERNATIONAL INTELLIGENCE TECHNOLOGY AND		
274 ARCHITECTURES.....	13,635	17,315
275 RAPID CYBER ACQUISITION.....	4,262	4,262
276 PERSONNEL RECOVERY COMMAND & CTRL (PRC2).....	2,207	2,207
277 INTELLIGENCE MISSION DATA (IMD).....	6,277	6,277
278 C-130 AIRLIFT SQUADRON.....	41,973	41,973
279 C-5 AIRLIFT SQUADRONS.....	32,560	30,560
280 C-17 AIRCRAFT.....	9,991	9,991
281 C-130J PROGRAM.....	10,674	10,674
282 LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCМ).....	5,507	5,507
283 KC-135S.....	4,591	4,591
286 CV-22.....	18,419	18,419
288 SPECIAL TACTICS / COMBAT CONTROL.....	7,673	7,673
290 MAINTENANCE, REPAIR & OVERHAUL SYSTEM.....	24,513	24,513
291 LOGISTICS INFORMATION TECHNOLOGY (LOGIT).....	35,225	33,247
292 SUPPORT SYSTEMS DEVELOPMENT.....	11,838	11,838
293 OTHER FLIGHT TRAINING.....	1,332	1,332
295 JOINT PERSONNEL RECOVERY AGENCY.....	2,092	2,092
296 CIVILIAN COMPENSATION PROGRAM.....	3,869	3,869
297 PERSONNEL ADMINISTRATION.....	1,584	1,584
298 AIR FORCE STUDIES AND ANALYSIS AGENCY.....	1,197	1,197
299 FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT..	7,006	7,006

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
300 DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS).....	45,638	40,638
301 GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN).....	1,889	---
302 SERVICE SUPPORT TO STRATCOM - SPACE ACTIVITIES.....	993	993
303 SERVICE SUPPORT TO SPACECOM ACTIVITIES.....	8,999	8,999
314 SPACE SUPERIORITY INTELLIGENCE.....	16,810	---
316 NATIONAL SPACE DEFENSE CENTER.....	2,687	---
318 NCMC - TW/AA SYSTEM.....	6,990	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	5,688,824	5,490,169
9999 CLASSIFIED PROGRAMS.....	15,777,856	15,030,480
323 UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-48,603
	=====	=====
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE.....	37,391,826	36,357,443
	=====	=====

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 DEFENSE RESEARCH SCIENCES	315,348	325,348
Program increase - defense research sciences		10,000
2 UNIVERSITY RESEARCH INITIATIVES	161,861	196,861
Program increase - university research initiatives		15,000
Program increase - solar block research		5,000
Program increase - hypersonic supply chain research		5,000
Program increase - gigahertz - terahertz electronics and material research		10,000
4 FUTURE AF CAPABILITIES APPLIED RESEARCH	100,000	80,000
Transformational research forward financing		-20,000
5 MATERIALS	140,781	238,281
Program increase - coating technologies		10,000
Program increase - deployable passive cooling		5,000
Program increase - classified additive manufacturing		20,000
Program increase - human monitoring capabilities		9,500
Program increase - ceramic matrix composites		10,000
Program increase - certification of advanced composites		15,000
Program increase - high performance material		8,000
Program increase - technology for broadband operation		10,000
Program increase - thermal protection for hypersonic vehicles		10,000
6 AEROSPACE VEHICLE TECHNOLOGIES	349,225	164,726
Transfer to line 8		-203,865
Transfer to line 26		-2,434
Aerospace power and flight control technology unjustified program growth		-1,200
Program increase - secure UAV technologies		10,000
Program increase - modeling and testing of high temperature aero vehicles		4,000
Program increase - advanced battery technology for directed energy		5,000
Program increase - hypersonic research and education		4,000
7 HUMAN EFFECTIVENESS APPLIED RESEARCH	115,222	134,122
Program increase - human motion assessment		4,000
Program increase - pilot hypoxia detection and notification		9,900
Program increase - warfighter physiology program		5,000
8 AEROSPACE PROPULSION	0	201,415
Transfer from line 6		203,865
High power system technologies unjustified program growth		-2,450
9 AEROSPACE SENSORS	211,301	233,301
Program increase - exploitation detection for flexible combat avionics		5,000
Program increase - low cost sensors for small unmanned vehicles		5,000
Program increase - additive manufacturing for electronics		6,000
Program increase - cyber assurance and assessment of electronic hardware systems		6,000

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R-1	Budget Request	Final Bill
12 CONVENTIONAL MUNITIONS	132,425	127,425
Unjustified program growth		-5,000
13 DIRECTED ENERGY TECHNOLOGY	128,113	130,613
Program increase - directed energy center of excellence		2,500
14 DOMINANT INFORMATION SCIENCES AND METHODS	178,668	215,668
Program increase - trusted UAS traffic management and c-SUAS testbed		10,000
Program increase - quantum network testbed		10,000
Program increase - quantum information science innovation center		10,000
Program increase - quantum cryptography		7,000
15 HIGH ENERGY LASER RESEARCH	45,088	29,208
Program increase - fiber laser research		5,000
Forward financing		-20,880
17 AF FOUNDATIONAL DEVELOPMENT/DEMOS	103,280	0
Transfer to line 22		-35,169
Transfer to line 23		-16,933
Transfer to line 30		-10,777
Transfer to line 33		-40,401
18 FUTURE AF INTEGRATED TECHNOLOGY DEMOS	157,619	147,619
Future transformational capabilities unjustified request		-10,000
19 NEXT GEN PLATFORM DEV/DEMO	199,556	0
Transfer to line 25		-37,230
Transfer to line 26		-105,058
Transfer to line 28		-57,268
20 PERSISTENT KNOWLEDGE, AWARENESS AND C2 TECH	102,276	0
Transfer to line 24		-35,338
Transfer to line 27		-4,699
Transfer to line 29		-12,090
Transfer to line 30		-20,948
Transfer to line 34		-29,201
21 NEXT GEN EFFECTS DEV/DEMOS	215,817	0
Transfer to line 27		-31,207
Transfer to line 31		-134,145
Transfer to line 32		-31,445
Transfer to line 34		-19,020
22 ADVANCED MATERIALS FOR WEAPON SYSTEMS	0	60,169
Transfer from line 17		35,169
Program increase - metals affordability research		10,000
Program increase - composites technology		6,000
Program increase - additive manufacturing for aerospace components		5,000
Program increase - advanced ballistic eyewear		4,000
23 SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T)	0	16,933
Transfer from line 17		16,933

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R-1	Budget Request	Final Bill
24 ADVANCED AEROSPACE SENSORS	0	35,338
Transfer from line 20		35,338
25 AEROSPACE TECHNOLOGY DEV/DEMO	0	62,230
Transfer from line 19		37,230
Program increase - Agility Prime		25,000
26 AEROSPACE PROPULSION & POWER TECHNOLOGY	0	144,492
Transfer from line 19		105,058
Transfer from line 6		2,434
Program increase - multi-mode propulsion		5,000
Program increase - low spool generator capabilities		5,000
Program increase - small turbine engines for long range weapons		17,000
Program increase - silicon carbide research		10,000
27 ELECTRONIC COMBAT TECHNOLOGY	0	35,906
Transfer from line 20		4,699
Transfer from line 21		31,207
28 ADVANCED SPACECRAFT TECHNOLOGY	0	87,768
Transfer from line 19		57,268
Program increase - ground-based interferometry		6,500
Program increase - modular satellite power systems		4,000
Program increase - upper stage engine technology		20,000
29 MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	0	12,090
Transfer from line 20		12,090
HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY		
30 DEVELOPMENT	0	31,725
Transfer from line 17		10,777
Transfer from line 20		20,948
31 CONVENTIONAL WEAPONS TECHNOLOGY	0	134,145
Transfer from line 21		134,145
32 ADVANCED WEAPONS TECHNOLOGY	0	31,445
Transfer from line 21		31,445

(33K)

R-1	Budget Request	Final Bill
33 MANUFACTURING TECHNOLOGY PROGRAM	0	139,001
Transfer from line 17		40,401
Program increase - hybrid manufacturing for rapid tooling and repair		5,000
Program increase - cost reduction for aerospace composite structures		10,000
Program increase - technologies to repair fastener holes		5,000
Program increase - flexible thermal protection systems for hypersonics		10,000
Program increase - modeling technology for small turbine engines		7,000
Program increase - alternative domestic rubber production		5,000
Program increase - large scale additive manufacturing for hypersonics		6,000
Program increase - manufacturing readiness for hypersonic propulsion systems		10,000
Program increase - manufacturing technology for reverse engineering		5,000
Program increase - thermoplastic material systems		7,000
Program increase - automated fiber placement for composite structures		5,000
Program increase - F-35 battery technology		9,600
Program increase - hypersonic manufacturing capability and supply		6,000
Program increase - low cost manufacturing methods for hypersonic vehicle components		8,000
34 BATTLESPACE KNOWLEDGE DEV/DEMO	0	63,221
Transfer from line 20		29,201
Transfer from line 21		19,020
Program increase - assured communication and networks		10,000
Program increase - command and control capability development		5,000
43 AIR FORCE WEATHER SERVICES RESEARCH	869	2,238
Program increase - drought warning system		1,369
44 ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS)	302,323	158,782
Unjustified growth		-50,000
Poor justification materials		-15,000
Digital architecture forward financing		-1,825
Sensor integration forward financing		-10,650
Data forward financing		-5,603
Secure processing forward financing		-18,148
Connectivity forward financing		-11,102
Apps forward financing		-4,996
Effects integration forward financing		-2,743
Onramps forward financing		-23,474
45 ADVANCED ENGINE DEVELOPMENT	636,495	666,495
Program increase		30,000
47 DIRECTED ENERGY PROTOTYPING	20,964	19,464
Support costs forward financing		-1,500
48 HYPERSONICS PROTOTYPING	381,862	386,862
Program increase - chemical vapor infiltration capabilities		5,000

(133L)

R-1	Budget Request	Final Bill
51 NATIONAL AIRBORNE OPERATIONS CENTER (NAOC) RECAP	76,417	59,498
Management services unjustified growth		-2,635
Acquisition strategy		-14,284
52 TECHNOLOGY TRANSFER	3,011	17,011
Program increase - academic partnership intermediary agreement tech transfer		10,000
Program increase - technology partnerships		4,000
56 TECH TRANSITION PROGRAM	219,252	306,502
Experimentation		-20,000
Additional prototyping acquisition strategy		-50,000
Program increase - massive area additive manufacturing		10,000
Program increase - additive manufacturing for metals		10,000
Program increase - cold spray and directed energy deposition		6,000
Program increase - low-cost attritable aircraft technology		50,000
Program increase - arctic communications		50,000
Program increase - autonomous air combat operations		5,000
Program increase - heavy payload solar powered UAS JCTD		15,000
Program increase - logistics technologies		8,750
Program increase - small business research for rocket technology		2,500
56A RAPID SUSTAINMENT MODERNIZATION	0	20,000
Program increase - rapid sustainment office		20,000
57 GROUND BASED STRATEGIC DETERRENT	1,524,759	1,449,759
Excess to need		-60,000
Planning and design acquisition strategy		-15,000
59 NEXT GENERATION AIR DOMINANCE	1,044,089	904,089
Development efforts forward financing		-140,000
66 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	259,823	234,823
Prior year carryover		-25,000
66A CCSO TECH DEVELOPMENT	0	20,000
Program increase - cyber kinetic combat environment		20,000
68 C-32 EXECUTIVE TRANSPORT RECAPITALIZATION	9,908	6,208
Prior year carryover		-3,700
69 CONTRACTING INFORMATION TECHNOLOGY SYSTEM	8,662	5,672
Unjustified increase		-2,990
74 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	8,787	0
Transfer to RDTE,SF line 6		-8,787
77 SPACE SECURITY AND DEFENSE PROGRAM	56,311	0
Transfer to RDTE,SF line 11A		-56,311

133M

R-1	Budget Request	Final Bill
82 FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS	25,161	22,936
Forward financing		-2,225
84 NUCLEAR WEAPONS SUPPORT	35,033	26,105
Nuclear weapon system technology and integration forward financing		-4,670
Nuclear weapons support forward financing		-2,273
Nuclear weapons support prior year carryover		-1,985
86 TACTICAL DATA NETWORKS ENTERPRISE	131,909	121,409
Family of gateways acquisition strategy		-10,500
88 SMALL DIAMETER BOMB (SDB) - EMD	17,280	0
Air Force requested transfer to line 194A		-17,280
92 AGILE COMBAT SUPPORT	20,609	19,015
Technology transfer planning execution delays		-1,594
93 JOINT DIRECT ATTACK MUNITION	7,926	6,818
PMA unjustified program growth		-1,108
94 LIFE SUPPORT SYSTEMS	23,660	28,660
Program increase - pilot physiological monitoring and alerting system		5,000
95 COMBAT TRAINING RANGES	8,898	23,898
Program increase - training range instrumentation		15,000
97 LONG RANGE STANDOFF WEAPON	474,430	385,430
TMRR funding excess to need		-89,000
98 ICBM FUZE MODERNIZATION	167,099	156,979
Forward financing		-10,120
107 STAND IN ATTACK WEAPON	160,438	150,646
F-35 integration forward financing		-9,792
111 KC-46A TANKER SQUADRONS	106,262	76,162
Forward financing		-21,900
Unjustified program growth		-8,200
116 AF A1 SYSTEMS	8,467	7,467
Management services		-1,000
137 ACQUISITION WORKFORCE - GLOBAL POWER	0	271,276
Transfer from line 142		273,231
Civilian pay prior year carryover		-1,955
ACQUISITION WORKFORCE - GLOBAL VIGILANCE AND COMBAT		
138 SYSTEMS	0	255,233
Transfer from line 142		262,119
Civilian pay prior year carryover		-6,886

133N

R-1	Budget Request	Final Bill
139 ACQUISITION WORKFORCE - GLOBAL REACH	0	158,429
Transfer from line 142		158,429
ACQUISITION WORKFORCE - CYBER, NETWORK, AND		
140 BUSINESS SYSTEMS	0	255,162
Transfer from line 142		247,468
Civilian pay prior year carryover		-766
Overestimation of projected civilian positions		-12,540
Program increase - business enterprise systems product innovation		21,000
141 ACQUISITION WORKFORCE - GLOBAL BATTLE MANAGEMENT	0	177,811
Transfer from line 142		183,107
Civilian pay prior year carryover		-3,898
Overestimation of projected civilian positions		-1,398
142 ACQUISITION WORKFORCE - CAPABILITY INTEGRATION	1,362,038	219,868
Global Power transfer to line 137		-273,231
Global Vigilance transfer to line 138		-262,119
Global Reach transfer to line 139		-158,429
Cyber, Network, and Business Systems transfer to line 140		-247,468
Global Battle Management transfer to line 141		-183,107
Advanced Program Technology transfer to line 143		-17,816
ACQUISITION WORKFORCE - ADVANCED PROGRAM		
143 TECHNOLOGY	40,768	58,584
Transfer from line 142		17,816
148 REQUIREMENTS ANALYSIS AND MATURATION	63,381	68,381
Program increase - nuclear modernization analytics		5,000
COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS		
150 (C4) - STRATCOM	24,564	21,564
Modeling and simulation and enterprise data environment development - lack of justification		-3,000
163 SPECIALIZED UNDERGRADUATE FLIGHT TRAINING (SUFT)	8,777	11,577
Program increase - PRIME DTS		2,800
165 F-35 C2D2	785,336	697,140
Program increase - F-35 JASSM integration		10,000
Air vehicle - technology refresh 3	[125,895]	[125,895]
Air vehicle block 4 planning and sys eng	[236,811]	[207,814]
Unjustified growth in phase II efforts		-28,997
Test and evaluation	[156,437]	[156,437]
Propulsion	[25,135]	[25,135]
Maintenance systems / ALIS development	[40,151]	[23,151]
Acquisition strategy for ALIS LM efforts		-17,000
Combat data systems	[47,446]	[47,446]
Training systems and simulation	[72,783]	[47,783]
Unjustified growth		-25,000
Infrastructure and support costs	[48,797]	[24,087]
Forward financing of fixed JPO support		-14,213
Fixed JPO support		-10,497
DevSecOps	[4,400]	[4,400]
Statutory reductions	[27,481]	[24,992]
Unjustified program growth in statutory reductions		-2,489

R-1	Budget Request	Final Bill
167 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENT	50,508	47,193
Lack of prior year execution data		-3,315
169 HC/MC-130 RECAP RDT&E	24,705	19,527
Acquisition strategy of block 8.X		-3,066
Forward financing		-2,112
171 ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	0	3,000
Program increase - ransomware response exercise		3,000
172 B-52 SQUADRONS	520,023	483,623
ATP display upgrade delay		-5,000
RMP MSB slip		-10,900
CERP excess to need		-25,500
Program increase - global strike innovation hub		5,000
175 B-2 SQUADRONS	187,399	181,399
Prior year carryover		-11,000
Program increase - training modernization		5,000
176 MINUTEMAN SQUADRONS	116,569	89,469
Concurrency of FT3 development		-25,600
APT-R schedule slip		-1,500
177 WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	27,235	31,223
Program increase - NC3 architecture development		8,000
Delay in test events		-4,012
181 UH-1N REPLACEMENT PROGRAM	44,464	41,464
A&AS unjustified program growth		-3,000
REGION/SECTOR OPERATION CONTROL CENTER		
182 MODERNIZATION PROGRAM	5,929	10,724
Air Force requested transfer from OP,AF line 33		4,795
184 MQ-9 UAV	162,080	107,080
Tech insertion request unjustified		-9,968
Acquisition strategy		-45,032
187 F-16 SQUADRONS	223,437	202,868
AIFF Mode 5 - Air Force requested transfer from AP,AF line 30		9,868
DRWR forward financing		-22,000
AESA JEON prior year carryover		-8,437
188 F-15E SQUADRONS	298,908	288,908
IRST carryover		-10,000
191 F-35 SQUADRONS	132,229	114,830
BPAC 676011 unjustified growth		-17,399
194A SMALL DIAMETER BOMB (SDB)	0	20,780
Air Force requested transfer from line 88		17,280
Program increase - precise navigation		3,500

133P

R-1	Budget Request	Final Bill
199 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	95,896	125,896
Program increase		30,000
203 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)	138,303	124,151
CID inconsistent budget justification		-6,000
EP Phase 1A excess to need		-8,152
219 TACTICAL DECEPTION	2,370	0
Non-kinetic air base defense forward financing		-2,370
222 AF DEFENSIVE CYBERSPACE OPERATIONS	15,165	30,165
Program increase - critical infrastructure cyber security		15,000
AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR		
238 BATTLESPACE AWARENESS	2,904	1,404
TAC OPIR processing forward financing		-1,500
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS		
240 NETWORK (MEECN)	61,887	44,722
CVR increment 2 schedule delays		-2,950
Acquisition strategy for GASNT inc 2		-14,215
255 WEATHER SERVICE	23,640	36,640
Program increase - commercial weather data pilot		10,000
Program increase - research on atmospheric rivers		3,000
265 DRAGON U-2	18,660	36,660
Air Force requested transfer from line 267		18,000
267 AIRBORNE RECONNAISSANCE SYSTEMS	121,512	123,512
Air Force requested transfer to line 265		-18,000
Program increase - sensor open systems architecture		10,000
Program increase - wide area motion imagery		10,000
270 RQ-4 UAV	134,589	163,589
Program increase - RQ-4 block 40 waypoint modification capability		29,000
INTERNATIONAL INTELLIGENCE TECHNOLOGY AND		
274 ARCHITECTURES	13,635	17,315
Program increase - Pacific deterrence initiative - mission partner environment BICES-X project 675898		3,680
279 C-5 AIRLIFT SQUADRONS	32,560	30,560
PMA unjustified program growth		-2,000
291 LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	35,225	33,247
Unjustified growth		-1,978
300 DEFENSE ENTERPRISE ACNTNG AND MGT SYS	45,638	40,638
Delay in product development		-5,000

(133Q)

R-1	Budget Request	Final Bill
301 GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN) Transfer to RD,SF line 26	1,889	0 -1,889
314 SPACE SUPERIORITY INTELLIGENCE Transfer to RD,SF line 41B	16,810	0 -16,810
316 NATIONAL SPACE DEFENSE CENTER Transfer to RD,SF line 41A	2,687	0 -2,687
318 NCMC - TW/AA SYSTEM Transfer to RDTE,SF line 41C	6,990	0 -6,990
999 CLASSIFIED PROGRAMS Classified adjustment	15,777,856	15,030,480 -747,376
UNDISTRIBUTED REDUCTION - EXCESS TO NEED	0	-48,603

133R

LOW-COST ATTRITABLE AIRCRAFT TECHNOLOGY AND SKYBORG

The agreement includes an additional \$50,000,000 above the fiscal year 2021 request to conduct prototyping necessary to transition the Low-Cost Attributable Aircraft Technology (LCAAT) demonstrator aircraft system into a fully operational capability, along with other associated LCAAT and Skyborg efforts. The Secretary of the Air Force is directed to submit to the congressional defense committees, not later than 90 days after the enactment of this Act, a spend plan for this additional funding as well as funding for LCAAT and Skyborg efforts in the underlying fiscal year 2021 budget request. This language replaces the language under the heading “Skyborg and Low-Cost Attributable Aircraft Technology” in House Report 116-453.

PROGRAM ELEMENT CONSOLIDATION

The agreement rejects the Air Force proposal to consolidate multiple program elements into a few larger program elements that would provide unprecedented programmatic and fiscal flexibility and recommends retaining the existing program element budget structure. The agreement supports the creation of the Future Air Force Integrated Technology Demonstration program element as it provides clarity and transparency for the Air Force Vanguard programs. The Assistant Secretary of the Air Force (Financial Management and Comptroller) is directed to follow this budget structure in future budget submissions until changes are agreed to by the House and Senate Appropriations Committees.

ACQUISITION WORKFORCE

The Secretary of the Air Force is directed to include, with the submission of the fiscal year 2022 President's budget request, the following data for each Research, Development, Test and Evaluation, Air Force line item that contains civilian pay: the number of civilian full time equivalents, total compensation and benefits, and average salary. For each type of data, the Secretary of the Air Force is also directed to include the actual amounts for the previous fiscal year, the enacted amounts for the current fiscal year, and the requested amount in the fiscal year 2022 President's budget request.

ADVANCED BATTLE MANAGEMENT SYSTEM

The agreement includes \$158,782,000 for Advanced Battle Management System (ABMS) to allow for continued program progress. The Assistant Secretary of the Air Force (Acquisition, Technology and Logistics) is directed to provide, with the fiscal year 2022 President's budget request, the ABMS acquisition strategy; in addition, the Assistant Secretary of the Air Force (Financial Management and Comptroller) is directed to certify that the fiscal year 2022 President's budget fully funds this acquisition strategy.

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

legacy activities, and linkages to classified activities. This report may be submitted with a classified annex if necessary.

GROUND BASED STRATEGIC DETERRENT

As part of its fiscal year 2021 President's budget request, the Air Force provided a legislative proposal to carry out construction activities associated with the recapitalization of the Nation's ground based nuclear missile systems. The legislative proposal for the Ground Based Strategic Deterrent program, as envisioned, would allow for the use of research, development, test and evaluation funding for planning and design activities and would utilize procurement funding in lieu of military construction funding to replace both the existing launch control and launch facilities.

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

USE OF RESEARCH, DEVELOPMENT, TEST AND EVALUATION APPROPRIATIONS

The fiscal year 2021 President's budget request includes \$15,000,000 in Research, Development, Test and Evaluation, Air Force funding to be used as planning and design for construction associated with the Ground Based Strategic Deterrent program. The agreement does not support this use of research and development funds, nor the associated legislative proposals, and reduces the budget request accordingly. Further, the agreement directs that none of the funds appropriated in this Act for research, development, test and evaluation may be used for military construction activities, unless expressly allowed in this Act.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE

The agreement provides \$10,540,069,000 for Research, Development, Test and Evaluation, Space Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

Insert 138A-D

~~(INSERT PROJECT LEVEL TABLE)~~ e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE		
APPLIED RESEARCH		
1	SPACE TECHNOLOGY.....	130,874 216,874
	TOTAL, APPLIED RESEARCH.....	130,874 216,874
COMPONENT DEVELOPMENT & PROTOTYPES		
NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)		
2	(SPACE).....	390,704 380,704
3	EO/IR WEATHER SYSTEMS.....	131,000 131,000
4	WEATHER SYSTEM FOLLOW-ON.....	83,384 83,384
5	SPACE SITUATION AWARENESS SYSTEM.....	33,359 33,359
6	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT).....	142,808 151,595
7	SPACE CONTROL TECHNOLOGY.....	35,575 40,575
8	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES).....	114,390 109,390
9	PROTECTED TACTICAL SERVICE (PTS).....	205,178 200,178
10	EVOLVED STRATEGIC SATCOM (ESS).....	71,395 71,395
11	SPACE RAPID CAPABILITIES OFFICE.....	103,518 108,518
11A	SPACE SECURITY AND DEFENSE PROGRAMS (SSDP).....	--- 56,311
	TOTAL, COMPONENT DEVELOPMENT & PROTOTYPES.....	1,311,311 1,366,409
SYSTEM DEVELOPMENT & DEMONSTRATION		
12	GPS III FOLLOW-ON (GPS IIF).....	263,496 285,496
13	SPACE SITUATION AWARENESS OPERATIONS.....	41,897 36,897
14	COUNTERSPACE SYSTEMS.....	54,689 57,189
15	WEATHER SYSTEM FOLLOW-ON.....	2,526 2,526
16	SPACE SITUATION AWARENESS SYSTEMS.....	173,074 173,074
17	ADVANCED EHF MILSATCOM (SPACE).....	138,257 90,045
17A	COMMERCIAL SATCOM.....	--- 43,212
18	POLAR MILSATCOM (SPACE).....	190,235 190,235
19	NEXT GENERATION OPIR.....	2,318,864 2,318,864
20	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE) - EMD..	560,978 550,978
	TOTAL, SYSTEM DEVELOPMENT & DEMONSTRATION.....	3,744,016 3,748,516
RDT&E MANAGEMENT SUPPORT		
21	SPACE TEST AND TRAINING RANGE DEVELOPMENT.....	20,281 20,281
22	ACQ WORKFORCE - SPACE & MISSILE SYSTEMS.....	183,930 183,930
23	SPACE & MISSILE SYSTEMS CENTER - MHA.....	9,765 9,765

138A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL	
24	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE).....	17,993	17,993
24A	TACTICALLY RESPONSIVE LAUNCH.....	---	15,000
25	SPACE TEST PROGRAM (STP).....	26,541	26,541
	TOTAL, RDT&E MANAGEMENT SUPPORT.....	258,510	273,510
OPERATIONAL SYSTEMS DEVELOPMENT			
26	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN).....	3,708	5,597
27	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T).....	247,229	232,229
28	SATELLITE CONTROL NETWORK (SPACE).....	75,480	60,480
29	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL SEGMENTS).....	1,984	1,984
30	SPACE AND MISSILE TEST EVALUATION CENTER.....	4,397	4,397
31	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT.....	44,746	38,746
32	SPACELIFT RANGE SYSTEM (SPACE).....	11,020	21,020
33	GPS III SPACE SEGMENT.....	10,777	10,777
34	BALLISTIC MISSILE DEFENSE RADARS.....	28,179	28,179
35	NUDET DETECTION SYSTEM (SPACE).....	29,157	29,157
36	SPACE SITUATION AWARENESS OPERATIONS.....	44,809	69,809
37	GLOBAL POSITIONING SYSTEM III - OPERATIONAL CONTROL SEGMENT.....	481,999	481,999
41	ENTERPRISE GROUND SERVICES.....	116,791	116,791
41A	NATIONAL SPACE DEFENSE CENTER (NSDC).....	---	2,687
41B	SPACE SUPERIORITY INTELLIGENCE (SSI).....	---	16,810
41C	NCMC - TW/AA SYSTEM.....	---	6,990
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,100,276	1,127,652
999	CLASSIFIED PROGRAMS.....	3,632,866	3,657,366
42	JPSOC MISSION SYSTEM.....	149,742	149,742
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE.....	10,327,595	10,540,069

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 SPACE TECHNOLOGY	130,874	216,874
Program increase - thin-film photovoltaic energy		7,000
Program increase - hybrid space architecture		10,000
Program increase - resilient solar power		3,000
Program increase - ultra-lightweight solar arrays		15,000
Program increase - link-16 space experiment		9,000
Program increase - advanced space power systems		7,000
Program increase - digital engineering for future space operations		5,000
Program increase - laser communications		12,000
Program increase - lithium-sulfur battery development		5,000
Program increase - small satellite mission control facility		6,000
Program increase - operational cryogenic upper stage augmentation kit		7,000
2 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE)	390,704	380,704
Maritime/ground card integration prior year carryover		-10,000
6 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	142,808	151,595
Transfer from RDTE,AF line 74		8,787
7 SPACE CONTROL TECHNOLOGY	35,575	40,575
Program increase - high-thrust gridded ion engine		5,000
8 PROTECTED TACTICAL ENTERPRISE SERVICE (PTES)	114,390	109,390
Unjustified increase		-5,000
9 PROTECTED TACTICAL SERVICE (PTS)	205,178	200,178
Management services unjustified increase		-5,000
11 SPACE RAPID CAPABILITIES OFFICE	103,518	108,518
Program increase - University Affiliated Research Center for space technology and capability integration		5,000
11A SPACE SECURITY AND DEFENSE PROGRAMS (SSDP)	0	56,311
Transfer from RDTE,AF line 77		56,311
12 GPS III FOLLOW-ON (GPS IIIF)	263,496	285,496
Prior year carryover		-8,000
Program increase - Navigation Technology Satellite-3 payload and launch		30,000
13 SPACE SITUATION AWARENESS OPERATIONS	41,897	36,897
Contract award delay		-5,000
14 COUNTERSPACE SYSTEMS	54,689	57,189
Program increase - Bounty Hunter expansion		2,500
17 ADVANCED EHF MILSATCOM (SPACE)	138,257	90,045
Program delays		-5,000
Fighting SATCOM - transfer to line 17A		-43,212

138C

R-1		Budget Request	Final Bill
17A	COMMERCIAL SATCOM	0	43,212
	Fighting SATCOM - transfer from line 17		43,212
20	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE) - EMD	560,978	550,978
	LSA award adjustment		-100,000
	Program increase - next generation rocket engine testing		15,000
	Program increase - upper stage resiliency enhancements		75,000
24A	TACTICALLY RESPONSIVE LAUNCH	0	15,000
	Program increase		15,000
26	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN)	3,708	5,597
	Transfer from RDTE,AF line 301		1,889
27	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T)	247,229	232,229
	PNVC Integrator underexecution		-5,000
	FAB-T FET underexecution		-10,000
28	SATELLITE CONTROL NETWORK (SPACE)	75,480	60,480
	Underexecution		-15,000
31	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT	44,746	38,746
	Prior year carryover		-6,000
32	SPACELIFT RANGE SYSTEM (SPACE)	11,020	21,020
	Program increase - space launch services and capability		10,000
36	SPACE SITUATION AWARENESS OPERATIONS	44,809	69,809
	Program increase - commercial space domain awareness		25,000
41A	NATIONAL SPACE DEFENSE CENTER (NSDC)	0	2,687
	Transfer from RDTE,AF line 316		2,687
41B	SPACE SUPERIORITY INTELLIGENCE (SSI)	0	16,810
	Transfer from RDTE,AF line 314		16,810
41C	NCMC - TW/AA SYSTEM	0	6,990
	Transfer from RDTE,AF line 318		6,990
999	CLASSIFIED PROGRAMS	3,632,866	3,657,366
	Classified adjustment		24,500

EVOLVED STRATEGIC SATCOM

The agreement notes concerns about changes to the Evolved Strategic SATCOM (ESS) acquisition plan and directs the Secretary of the Air Force to provide to the congressional defense committees, not later than 120 days after the enactment of this Act, an assessment of the potential for a strategic communications gap beginning in 2030. The assessment shall include a detailed explanation of the ESS acquisition plan, functional availability analysis, consideration of the potential strategic communication needs of other programs such as Next Generation Overhead Persistent Infrared, new ESS program cost estimates, and if necessary, gap mitigation strategies.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION,
DEFENSE-WIDE

The agreement provides \$25,932,671,000 for Research, Development, Test and Evaluation, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~ e.

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~~(INSERT PROJECT LEVEL TABLE)~~ e.

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL	
RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE			
BASIC RESEARCH			
1	DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	14,617	14,617
2	DEFENSE RESEARCH SCIENCES.....	479,958	475,958
3	BASIC RESEARCH INITIATIVES.....	35,565	75,565
4	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE.....	53,730	53,730
5	NATIONAL DEFENSE EDUCATION PROGRAM.....	100,241	137,241
6	HISTORICALLY BLACK COLLEGES & UNIV (HBCU).....	30,975	81,300
7	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	45,300	50,300
	TOTAL, BASIC RESEARCH.....	760,386	888,711
APPLIED RESEARCH			
8	JOINT MUNITIONS TECHNOLOGY.....	19,409	24,409
9	BIOMEDICAL TECHNOLOGY.....	107,568	107,568
11	DEFENSE TECHNOLOGY INNOVATION.....	35,000	17,500
12	LINCOLN LABORATORY RESEARCH PROGRAM.....	41,080	41,080
13	APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES.....	60,722	53,400
14	INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	435,920	420,920
15	BIOLOGICAL WARFARE DEFENSE.....	26,950	26,950
16	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	201,807	201,807
17	CYBER SECURITY RESEARCH.....	15,255	25,255
18	TACTICAL TECHNOLOGY.....	233,271	237,271
19	MATERIALS AND BIOLOGICAL TECHNOLOGY.....	250,107	245,107
20	ELECTRONICS TECHNOLOGY.....	322,693	322,693
21	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	174,571	174,571
22	SOFTWARE ENGINEERING INSTITUTE.....	9,573	9,573
23	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	42,464	49,464
	TOTAL, APPLIED RESEARCH.....	1,976,390	1,957,568
ADVANCED TECHNOLOGY DEVELOPMENT			
24	JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	22,920	22,920
25	SO/LIC ADVANCED DEVELOPMENT.....	4,914	4,914
26	COMBATING TERRORISM TECHNOLOGY SUPPORT.....	51,089	125,589
27	FOREIGN COMPARATIVE TESTING.....	25,183	25,183
29	COUNTERPROLIFERATION INITIATIVES--PROLIF PREV & DEFEAT	366,659	356,659
30	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT.....	14,910	49,410

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
32	ADVANCED RESEARCH.....	18,687 33,687
33	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	18,873 18,873
34	ADVANCED AEROSPACE SYSTEMS.....	230,978 223,478
35	SPACE PROGRAMS AND TECHNOLOGY.....	158,439 151,439
36	ANALYTIC ASSESSMENTS.....	23,775 19,775
37	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS.....	36,524 28,524
38	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS - MHA.....	14,703 14,703
39	COMMON KILL VEHICLE TECHNOLOGY.....	11,058 11,058
40	DEFENSE MODERNIZATION AND PROTOTYPING.....	133,375 155,573
42	DEFENSE INNOVATION UNIT	26,141 35,641
43	TECHNOLOGY INNOVATION.....	27,709 27,709
44	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV	188,001 191,001
45	RETRACT LARCH.....	130,283 130,283
46	JOINT ELECTRONIC ADVANCED TECHNOLOGY.....	15,164 15,164
47	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	85,452 71,452
48	NETWORKED COMMUNICATIONS CAPABILITIES.....	5,882 5,882
49	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	93,817 245,817
50	MANUFACTURING TECHNOLOGY PROGRAM.....	40,025 64,025
52	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	10,235 15,235
53	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	53,862 85,462
54	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT....	124,049 136,049
55	JOINT WARFIGHTING PROGRAM.....	3,871 3,871
56	ADVANCED ELECTRONICS TECHNOLOGIES.....	95,864 95,864
57	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	221,724 221,724
58	NETWORK-CENTRIC WARFARE TECHNOLOGY.....	661,158 641,158
59	SENSOR TECHNOLOGY.....	200,220 190,220
60	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	6,765 6,765
61	SOFTWARE ENGINEERING INSTITUTE.....	12,598 12,598
64	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM.....	105,410 112,910

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
65 TEST & EVALUATION SCIENCE & TECHNOLOGY.....	187,065	178,565
66 NATIONAL SECURITY INNOVATION NETWORK.....	---	40,000
67 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT.....	---	16,000
70 SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT....	89,072	96,958
71 SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT.	72,422	72,422
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	3,588,876	3,954,560
DEMONSTRATION & VALIDATION		
72 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	32,636	32,636
73 WALKOFF.....	106,529	101,529
75 ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	61,345	73,345
76 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	412,627	310,127
77 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT... 1,004,305	1,004,305	1,221,261
78 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	76,167	76,167
79 BALLISTIC MISSILE DEFENSE SENSORS.....	281,957	265,803
80 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS.....	599,380	612,380
81 SPECIAL PROGRAMS - MDA.....	420,216	390,216
82 AEGIS BMD.....	814,936	877,336
83 BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT.....	593,353	643,556
84 BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	49,560	49,560
85 BALLISTIC MISSILE DEFENSE INTERGRATION AND OPERATIONS CENTER (MDIOC).....	55,356	55,356
86 REGARDING TRENCH.....	11,863	11,863
87 SEA BASED X-BAND RADAR (SBX).....	118,318	118,318
88 ISRAELI COOPERATIVE PROGRAMS.....	300,000	300,000
89 BALLISTIC MISSILE DEFENSE TEST.....	378,302	363,302
90 BALLISTIC MISSILE DEFENSE TARGETS.....	536,133	536,133
92 COALITION WARFARE.....	10,129	10,129
93 NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G).....	449,000	430,000
94 DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	3,325	5,325
95 TECHNOLOGY MATURATION INITIATIVES.....	67,389	109,389
98 HYPERSONIC DEFENSE.....	206,832	272,632
99 ADVANCED INNOVATIVE TECHNOLOGIES.....	730,508	749,508
100 TRUSTED AND ASSURED MICROELECTRONICS.....	489,076	504,076
101 RAPID PROTOTYPING PROGRAM.....	102,023	92,023

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
102 DEFENSE INNOVATION UNIT (DIU) PROTOTYPING.....	13,255	31,255
103 DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT.	2,787	7,087
105 HOMELAND DEFENSE RADAR-HAWAII.....	---	133,000
107 WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)....	3,469	3,469
109 JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY.....	19,190	19,190
110 LONG RANGE DISCRIMINATION RADAR.....	137,256	137,256
111 IMPROVED HOMELAND DEFENSE INTERCEPTORS.....	664,138	858,138
112 BMD TERMINAL DEFENSE SEGMENT TEST.....	7,768	1,000
113 AEGIS BMD TEST.....	170,880	71,498
114 BALLISTIC MISSILE DEFENSE SENSOR TEST.....	76,456	64,245
115 LAND-BASED SM-3 (LBSM3).....	56,628	56,628
116 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT TEST.....	67,071	67,071
118 ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS.....	2,198	2,198
119 JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM.....	997	997
120 CYBER SECURITY INITIATIVE.....	1,148	1,148
121 SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING.....	215,994	194,694
122 SPACE TRACKING AND SURVEILLANCE SYSTEM.....	34,144	34,144
123 BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS.....	32,068	162,068
TOTAL, DEMONSTRATION & VALIDATION.....	9,416,712	10,057,056
ENGINEERING & MANUFACTURING DEVELOPMENT		
124 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	7,173	7,173
125A JOINT HYPERSONICS TRANSITION OFFICE.....	---	90,000
126 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	319,976	356,472
127 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	54,985	51,318
128 WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES.....	15,650	15,650
129 INFORMATION TECHNOLOGY DEVELOPMENT.....	1,441	1,441
130 HOMELAND PERSONNEL SECURITY INITIATIVE.....	7,287	7,287
131 DEFENSE EXPORTABILITY PROGRAM.....	12,928	12,928
132 OUSD(C) IT DEVELOPMENT INITIATIVES.....	10,259	10,259
133 DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION..	1,377	1,377
134 DCMO POLICY AND INTEGRATION.....	1,648	1,618
135 DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM.....	20,537	20,537
136 DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS).....	1,638	1,638

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
137 MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS).....	5,500	5,500
138 DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES.....	8,279	8,279
139 TRUSTED & ASSURED MICROELECTRONICS.....	107,585	107,585
140 NUCLEAR COMMAND, CONTROL, & COMMUNICATIONS.....	3,685	3,685
143 DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)...	3,275	3,275
144 CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION....	20,585	20,585
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	603,808	726,607
RDT&E MANAGEMENT SUPPORT		
145 JOINT CAPABILITY EXPERIMENTATION.....	11,239	11,239
146 DEFENSE READINESS REPORTING SYSTEM (DRRS).....	9,793	9,793
147 JOINT SYSTEMS ARCHITECTURE DEVELOPMENT.....	8,497	8,497
148 CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT....	422,451	423,501
149 ASSESSMENTS AND EVALUATIONS.....	18,379	18,379
150 MISSION SUPPORT.....	74,334	74,334
151 JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC).....	79,046	79,046
153 JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION.	50,255	50,255
154 USD (P) PROGRAMS.....	---	110,000
155 SYSTEMS ENGINEERING.....	49,376	45,626
156 STUDIES AND ANALYSIS SUPPORT.....	5,777	5,777
157 NUCLEAR MATTERS - PHYSICAL SECURITY.....	16,552	16,552
158 SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	9,582	9,582
159 GENERAL SUPPORT TO USD (INTELLIGENCE).....	1,940	7,940
160 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	122,951	127,951
167 SMALL BUSINESS INNOVATION RESEARCH/TECHNOLOGY TRANSFER	3,582	3,582
168 MAINTAINING TECHNOLOGY ADVANTAGE.....	29,566	25,566
169 DEFENSE TECHNOLOGY ANALYSIS.....	29,059	23,359
170 DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	59,369	57,716
171 R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	29,420	29,420
172 DEVELOPMENT TEST AND EVALUATION.....	27,198	27,198

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
173 MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT).....	13,434	13,434
174 MANAGEMENT HEADQUARTERS DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	2,837	2,837
175 BUDGET AND PROGRAM ASSESSMENTS.....	13,173	10,099
176 ODNA TECHNOLOGY AND RESOURCE ANALYSIS.....	3,200	3,200
177 DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT.....	999	999
180 DEFENSE OPERATIONS SECURITY (OPSEC).....	3,099	3,099
181 JOINT STAFF ANALYTICAL SUPPORT.....	3,058	3,058
182 C4I INTEROPERABILITY.....	59,813	59,813
185 INFORMATION SYSTEMS SECURITY PROGRAM.....	1,112	1,112
186 SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES...	545	545
187 DEFENSE MILITARY DECEPTION PROGRAM OFFICE.....	1,036	1,036
188 COMBINED ADVANCED APPLICATIONS.....	30,824	30,824
190 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	3,048	3,048
194 COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION.	31,125	31,125
195 DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI)	100	100
196 MANAGEMENT HEADQUARTERS - MDA.....	26,902	26,902
197 JOINT SERVICE PROVIDER (JSP).....	3,138	3,138
9999 CLASSIFIED PROGRAMS.....	41,583	41,583
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,297,392	1,401,265
OPERATIONAL SYSTEMS DEVELOPMENT		
199 ENTERPRISE SECURITY SYSTEM (ESS).....	14,378	14,378
200 JOINT ARTIFICIAL INTELLIGENCE.....	132,058	137,058
201 REGIONAL INTERNATIONAL OUTREACH & PARTNERSHIP FOR PEAC	1,986	1,986
202 OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SY	316	316
203 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT.....	9,151	172,151
204 OPERATIONAL SYSTEMS DEVELOPMENT.....	19,082	16,966
205 GLOBAL THEATER SECURITY COOPERATION MANAGEMENT.....	3,992	3,992
206 CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D	39,530	39,530
207 PLANNING AND DECISION AID SYSTEM.....	3,039	3,039
212 DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION.	16,324	16,324
213 LONG HAUL COMMUNICATIONS (DCS).....	11,884	11,884
214 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	5,560	5,560
215 KEY MANAGEMENT INFRASTRUCTURE (KMI).....	73,356	73,356
216 INFORMATION SYSTEMS SECURITY PROGRAM.....	46,577	46,577

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
217 INFORMATION SYSTEMS SECURITY PROGRAM.....	356,713	394,713
218 INFORMATION SYSTEMS SECURITY PROGRAM.....	8,922	8,922
219 GLOBAL COMMAND AND CONTROL SYSTEM.....	3,695	3,695
220 JOINT SPECTRUM CENTER (DEFENSE SPECTRUM ORGANIZATION).	20,113	20,113
223 JOINT REGIONAL SECURITY STACKS (JRSS).....	9,728	9,728
231 SECURITY AND INVESTIGATIVE ACTIVITIES.....	5,700	5,700
235 POLICY R&D PROGRAMS.....	7,144	6,301
236 NET CENTRICITY.....	21,793	21,793
238 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	6,066	6,066
244 INSIDER THREAT.....	---	3,000
245 HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM.....	2,190	2,190
252 LOGISTICS SUPPORT ACTIVITIES.....	1,654	1,654
253 PACIFIC DISASTER CENTERS.....	1,785	1,785
254 DEFENSE PROPERTY ACCOUNTABILITY SYSTEM.....	7,301	7,301
256 MQ-9 UAV.....	21,265	21,265
258 AVIATION SYSTEMS.....	230,812	250,812
259 SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT...	19,558	26,558
260 SOF OPERATIONAL ENHANCEMENTS.....	136,041	173,041
261 WARRIOR SYSTEMS.....	59,511	58,333
262 SPECIAL PROGRAMS.....	10,500	7,500
263 UNMANNED ISR.....	19,154	14,154
264 SOF TACTICAL VEHICLES.....	9,263	14,263
265 SOF MARITIME SYSTEMS.....	59,882	68,582
266 SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	4,606	4,606
267 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	11,612	11,612
268 SOF TELEPORT PROGRAM.....	3,239	3,239
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,415,480	1,690,043
999 CLASSIFIED PROGRAMS.....	4,746,466	4,809,068
269 NATIONAL BACKGROUND INVESTIGATION SERVICES - SOFTWARE PILOT PROGRAM.....	121,676	109,676
270 ACQUISITION VISIBILITY - SOFTWARE PILOT PROGRAM.....	16,848	16,848
271 GLOBAL COMMAND AND CONTROL SYSTEM.....	86,750	75,750
272 ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS - SOFTWARE PILOT PROGRAM.....	250,107	230,107
UNDIST.....	---	15,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
UNDIST.....	---	10,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	---	-9,588
	=====	=====
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE.....	24,280,891	25,932,671
	=====	=====

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
2 DEFENSE RESEARCH SCIENCES	479,958	475,958
Excess program growth		-12,000
Program increase - foundational artificial intelligence		5,000
Program increase - alternative computing		3,000
3 BASIC RESEARCH INITIATIVES	35,565	75,565
Minerva research initiative funding restoration		17,000
Program increase - DEPSCOR		17,000
Program increase - START research consortium		5,000
Program increase - NAS study on confucious centers		1,000
5 NATIONAL DEFENSE EDUCATION PROGRAM	100,241	137,241
Program increase - basic research		35,000
Program increase - civics education		2,000
6 HISTORICALLY BLACK COLLEGES & UNIVERSITIES (HBCU) AND MINORITY-SERVING INSTITUTIONS	30,975	81,300
Program increase		49,325
Program increase - minority STEM recruitment and research		1,000
7 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	45,300	50,300
Program increase - water jet technology		5,000
8 JOINT MUNITIONS TECHNOLOGY	19,409	24,409
Program increase - advanced energetics for long range munitions		5,000
11 DEFENSE TECHNOLOGY INNOVATION	35,000	17,500
Insufficient justification		-17,500
13 APPLIED RESEARCH FOR THE ADVANCEMENT OF S&T PRIORITIES	60,722	53,400
Excess growth		-7,322
14 INFORMATION AND COMMUNICATIONS TECHNOLOGY	435,920	420,920
Excess program growth		-15,000
17 CYBER SECURITY RESEARCH	15,255	25,255
Program increase - academic cyber institutes		10,000
18 TACTICAL TECHNOLOGY	233,271	237,271
Program increase - counter-directed energy laser eye protection research		4,000
19 MATERIALS AND BIOLOGICAL TECHNOLOGY	250,107	245,107
Unjustified increase		-5,000
23 SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	42,464	49,464
Program increase -sustained human performance and resilience		5,000
Unjustified growth		-5,000
Program increase - national consortium for the study of terrorism		7,000

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R-1	Budget Request	Final Bill
26 COMBATING TERRORISM TECHNOLOGY SUPPORT	51,089	125,589
Program increase - anti-tunneling		47,500
Program increase - cooperative C-UAS development		25,000
Program increase - EOD camera-based machine learning		2,000
COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED		
29 TECHNOLOGY DEVELOPMENT	366,659	356,659
Program increase - strategic systems defeat		5,000
Insufficient budget justification		-15,000
30 ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	14,910	49,410
Program increase - cyber operations		20,000
Program increase - hypersonic kill vehicles		9,500
Program increase - cybersecurity of MDA DV left and right of launch		5,000
32 ADVANCED RESEARCH	18,687	33,687
Program increase - adaptive-optics		5,000
Program increase - domestic supply of strategic metals		5,000
Program increase - high-speed flight experiment testing		5,000
34 ADVANCED AEROSPACE SYSTEMS	230,978	223,478
Inadequate justification		-10,000
Program increase - advanced full range engine		2,500
35 SPACE PROGRAMS AND TECHNOLOGY	158,439	151,439
Inadequate justification		-7,000
36 ANALYTIC ASSESSMENTS	23,775	19,775
Prior year carryover		-4,000
37 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	36,524	28,524
Prior year carryover		-8,000
40 DEFENSE MODERNIZATION AND PROTOTYPING	133,375	155,573
Insufficient justification		-19,702
Program increase - emerging capabilities technology support		7,500
Program increase - artificial intelligence enabled sensor networks		8,400
Program increase - disruptive air and missile defense		5,000
Program increase - open source intelligence		3,000
Program increase - remote advise and assist		8,000
Program increase - stratospheric balloon research		10,000
42 DEFENSE INNOVATION UNIT (DIU)	26,141	35,641
Program increase - multi-orbit platform		4,500
Program increase - small tactical imagery satellites		5,000
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED		
44 DEVELOPMENT	188,001	191,001
Program increase - high air flow chem/bio filtration system enhancement		3,000
47 JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	85,452	71,452
Prior year carryover		-14,000

R-1	Budget Request	Final Bill
DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY		
49 PROGRAM	93,817	245,817
Program increase		26,000
Program Increase - cyber initiatives		3,000
Program increase - flexible hybrid electronics		10,000
Program increase - high temperature carbon composites manufacturing		7,000
Program increase - digital manufacturing		7,000
Program increase - additive manufacturing training insertion		2,000
Program increase - hypersonic enabling additive manufacturing		10,000
Program increase - advanced manufacturing		14,000
Program increase - hypersonics advanced manufacturing technology center		25,000
Program increase - 5G manufacturing testbeds		5,000
Program increase - advanced structural manufacturing		7,500
Program increase - manufacturing USA institutes		5,000
Program increase - hypersonics and thermal management		5,000
Program increase - carbon hypersonics materials industrial base		5,000
Program increase - high performance computing-enabled advanced manufacturing		17,000
Program increase - arsenal supply chain security proof of concept		3,500
50 MANUFACTURING TECHNOLOGY PROGRAM	40,025	64,025
Program increase - steel performance initiative		10,000
Program increase - supply chain adoption of additive manufacturing, automation, and robotics		10,000
Program increase - rare earth magnets		4,000
52 GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	10,235	15,235
Program increase - additive manufacturing castings modeling		5,000
53 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	53,862	85,462
Program increase - PFAS remediation and disposal technology		15,000
Program increase - AFFF replacement, disposal, and cleanup technology		15,000
Program increase - PFAS innovation award fund		5,000
Prior year carryover		-6,400
Program increase - PFAS/PFOA response		3,000
54 MICROELECTRONIC TECHNOLOGY DEVELOPMENT	124,049	136,049
MGUE - DLA requested transfer from P,DW line 23		7,000
Program increase - GaN-on-Si RF front-end		5,000
58 NETWORK-CENTRIC WARFARE TECHNOLOGY	661,158	641,158
Prior year carryover		-20,000
59 SENSOR TECHNOLOGY	200,220	190,220
Unjustified increase		-10,000
64 HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	105,410	112,910
Program increase - power and thermal systems		7,500

(140K)

R-1	Budget Request	Final Bill
65 TEST & EVALUATION SCIENCE & TECHNOLOGY	187,065	178,565
Prior year carryover		-36,000
Program increase - academic hypersonic research, test and evaluation facilities		6,500
Program increase - high-enthalpy hypersonic testing facility for thermal protection systems in reactive environments		5,000
Program increase - hypervelocity ground testing		16,000
66 NATIONAL SECURITY INNOVATION NETWORK	0	40,000
Program increase		40,000
67 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT	0	16,000
TRISO fuel production		10,000
Program increase - thermal and power technology		6,000
SPECIAL OPERATIONS ADVANCED TECHNOLOGY		
70 DEVELOPMENT	89,072	96,958
Inaccurate transfer		-2,114
Program increase - identity management		10,000
73 WALKOFF	106,529	101,529
Excess growth		-5,000
ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION		
75 PROGRAM	61,345	73,345
Program increase - PFAS remediation and disposal technology		15,000
Program increase - AFFF alternatives for shore-based aircraft hangers		1,000
Prior year carryover		-7,000
Program increase - sustainable technology demonstration program		3,000
76 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	412,627	310,127
THAAD underlay lack of validated requirement and acquisition strategy - CONOPS development and analysis only		-102,500
77 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	1,004,305	1,221,261
Future contracts preparation only		-15,000
Program increase - ground-based midcourse defense reliability/SLEP		250,000
Inadequate justification		-18,044
79 BALLISTIC MISSILE DEFENSE SENSORS	281,957	265,803
MD11 modeling and simulation development unjustified growth		-16,154
80 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS	599,380	612,380
Program increase - architecture reactive target simulation development		10,000
Program increase - cruise missile defense for homeland - indications and warning		3,000
81 SPECIAL PROGRAMS - MDA	420,216	390,216
Program adjustment		-30,000

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R-1	Budget Request	Final Bill
82 AEGIS BMD	814,936	877,336
AEGIS underlay lack of validated requirement and acquisition strategy - continued CONOPS development and analysis only		-26,760
Program increase - SM-3 Block IIA ECPs		106,000
Excess growth		-16,840
83 BALLISTIC MISSILE DEFENSE C2BMC	593,353	643,556
Increment 7 growth without established program baseline		-6,365
Increment 9 growth without established program baseline		-34,600
Program increase - cruise missile defense for homeland - indications and warning		36,200
Program increase - cybersecurity		4,968
Program increase - classified unfunded requirement #1		50,000
89 BMD TESTS	378,302	363,302
Prior year test asset carryover		-15,000
NEXT GENERATION INFORMATION COMMUNICATIONS		
93 TECHNOLOGY (5G)	449,000	430,000
Underexecution		-19,000
94 DEPARTMENT OF DEFENSE CORROSION PROGRAM	3,325	5,325
Program increase - military painter training and applied research		2,000
95 TECHNOLOGY MATURATION INITIATIVES	67,389	109,389
Program increase - DPAL		42,000
98 HYPERSONIC DEFENSE	206,832	272,632
Program increase - hypersonic defense - glide phase weapon system		10,000
Program increase - hypersonic defense - weapon system technology development		40,800
Program increase - hypersonic defense - engineering enablers		15,000
99 ADVANCED INNOVATIVE TECHNOLOGIES	730,508	749,508
Poor funds management		-51,000
Program increase - mobile nuclear microreactors		70,000
100 TRUSTED & ASSURED MICROELECTRONICS	489,076	504,076
Program increase - GaN and GaAs RFIC technology		10,000
Program increase - trusted artificial intelligence		5,000
101 RAPID PROTOTYPING PROGRAM	102,023	92,023
Program decrease		-10,000
102 DEFENSE INNOVATION UNIT (DIU) PROTOTYPING	13,255	31,255
Program increase - dual-use technologies		15,000
Program increase - pilot program on talent management		3,000
DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON		
103 DEVELOPMENT	2,787	7,087
Program increase - unmanned traffic management		4,300
105 HOMELAND DEFENSE RADAR - HAWAII	0	133,000
Program increase - Homeland Defense Radar - Hawaii		133,000

(140M)

R-1	Budget Request	Final Bill
111 IMPROVED HOMELAND DEFENSE INTERCEPTORS	664,138	858,138
Next generation interceptor contract award delay		-6,000
Program increase - GMD risk reduction		200,000
BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT		
112 TEST	7,768	1,000
Prior year test asset carryover		-6,768
113 AEGIS BMD TEST	170,880	71,498
AEGIS underlay test funding early to need		-96,000
Prior year test asset carryover		-3,382
114 BALLISTIC MISSILE DEFENSE SENSORS TEST	76,456	64,245
Prior year test asset carryover		-12,211
121 SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	215,994	194,694
Hypersonic and ballistic tracking space sensor - transfer to line 123		-10,000
Unjustified launch costs		-11,300
123 BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS	32,068	162,068
Program increase - hypersonic and ballistic tracking space sensor		120,000
Hypersonic and ballistic tracking space sensor - transfer from line 121		10,000
125A JOINT HYPERSONICS TRANSITION OFFICE	0	90,000
Program increase - Joint Hypersonics Transition Office		90,000
126 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	319,976	356,472
Joint vaccine for botulinum and plague vaccines funding restoration		26,996
Program increase - decontamination technologies		5,000
Program increase - smallpox antiviral		4,500
127 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	54,985	51,318
Excess growth		-10,667
Program increase - Applied Research Laboratory for Remote Sensing Systems		7,000
134 CMO POLICY AND INTEGRATION	1,648	1,618
Program decrease		-30
148 CENTRAL TEST & EVAL INVESTMENT DEVELOPMENT	422,451	423,501
Unjustified increase		-34,150
Program increase - hypersonic test facilities		20,000
Program increase - telemetry extension SATCOM relay		5,000
Program increase - threat force geospatial platform virtual training environment		5,200
Program increase - cyber vulnerability assessments		5,000
154 CLASSIFIED PROGRAM USD(P)	0	110,000
Classified adjustment		110,000
155 SYSTEMS ENGINEERING	49,376	45,626
Prior year carryover		-3,750

(140N)

R-1	Budget Request	Final Bill
159 GENERAL SUPPORT TO USD (INTELLIGENCE)	1,940	7,940
Program increase - applied research laboratory for intelligence and security		6,000
160 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	122,951	127,951
Program increase - biological weapons testing		5,000
168 MAINTAINING TECHNOLOGY ADVANTAGE	29,566	25,566
Unjustified growth		-4,000
169 DEFENSE TECHNOLOGY ANALYSIS	29,059	23,359
Excess growth		-8,700
Program increase - technology transition partnership intermediary		3,000
170 DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	59,369	57,716
Program decrease		-1,653
175 BUDGET AND PROGRAM ASSESSMENTS	13,173	10,099
Unjustified growth		-3,074
200 JOINT ARTIFICIAL INTELLIGENCE	132,058	137,058
Program increase - commercial geospatial analytics		5,000
203 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT	9,151	172,151
Program increase		15,000
Program increase - freeze dried plasma		10,000
Program increase - submarine workforce development		20,000
Program increase - frequency selective limiters		5,000
Program increase - lead-free electronics		10,000
Program increase - automated textile manufacturing		10,000
Program increase - precision optics manufacturing		4,000
Program increase - machine tooling and advanced manufacturing		20,000
Program increase - shape memory alloys		5,000
Program increase - high performance weldable armor		5,000
Program increase - weldable ultra hard armor		10,000
Program increase - industrial skills		3,500
Program increase - pilot mask technology		10,000
Program increase - active matrix organic light emitting diode		5,000
Program increase - risk reduction for tungsten defense products		5,000
Program increase - advanced manufacturing workforce development		6,000
Program increase - advanced nanomaterials manufacturing		10,000
Program increase - interdisciplinary center for advanced manufacturing system		7,500
Program increase - munitions supply chain expansion		2,000
204 CWMD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT	19,082	16,966
Excess growth		-2,116
217 INFORMATION SYSTEMS SECURITY PROGRAM	356,713	394,713
Program increase - cyber activities at senior military colleges		18,000
Program increase - workforce Transformation Cyber Initiative Pilot Program		20,000
235 POLICY R&D PROGRAMS	7,144	6,301
Unjustified growth		-843

(1400)

R-1	Budget Request	Final Bill
244 INSIDER THREAT Program increase - advanced background screening and detection	0	3,000 3,000
SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED		
258 DEVELOPMENT Armed Overwatch - SOCOM requested transfer from PDW line 55	230,812	250,812 20,000
SPECIAL OPERATIONS INTELLIGENCE SYSTEMS		
259 DEVELOPMENT Program increase - DOMEX	19,558	26,558 7,000
260 SOF OPERATIONAL ENHANCEMENTS Program increase - classified adjustment Program increase - AISUM	136,041	173,041 12,000 25,000
261 WARRIOR SYSTEMS MMP excess to need	59,511	58,333 -1,178
262 SPECIAL PROGRAMS Classified adjustment - excess to need	10,500	7,500 -3,000
263 UNMANNED ISR Underexecution	19,154	14,154 -5,000
264 SOF TACTICAL VEHICLES Program increase - next generation combat vehicles	9,263	14,263 5,000
265 SOF MARITIME SYSTEMS Program increase - diver propulsion Program increase - C3SA	59,882	68,582 4,200 4,500
NATIONAL BACKGROUND INVESTIGATION SERVICES -		
269 SOFTWARE PILOT PROGRAM Unjustified increase	121,676	109,676 -12,000
271 GLOBAL COMMAND AND CONTROL SYSTEM Insufficient budget justification - inaccurate transfer Prior year carryover	86,750	75,750 -6,000 -5,000
ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS -		
272 SOFTWARE PILOT PROGRAM Excess growth	250,107	230,107 -20,000
999 CLASSIFIED PROGRAMS Classified adjustment	4,746,466	4,809,068 62,602
UNDISTRIBUTED - RESTORE DWR MISSILE DEFENSE AGENCY MANPOWER REDUCTION		15,000
UNDISTRIBUTED - 5G SPECTRUM REALLOCATION MITIGATION		10,000
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-9,588

140P

MOBILE MICROREACTOR STRATEGY

The agreement supports efforts by the Department of Defense to explore new methods of power production for use in operational needs, future weapon systems, force protection, asset protection, and humanitarian and disaster response. The recommendation provides \$70,000,000 to support the development of a prototype mobile microreactor and \$10,000,000 to support the production of fuel for the prototype.

The agreement notes, however, that the Department has not established an executive agent to direct the microreactor program and has not secured fuel stocks. Therefore, the Under Secretary of Defense (Research and Engineering) is directed to submit a report to the congressional defense committees not later than 30 days after the enactment of this Act, on the Department's plans for the mobile microreactor program. The report shall address whether the Department has identified an executive agent for mobile energy; plans to include mobile energy solutions, such as microreactors, in force modernization initiatives; the strategy for deploying microreactors, including site identification processes, fielding, personnel training, and deployment timelines; the procurement strategy to acquire feed material for microreactors; the plan to identify and use existing authorities to provide appropriate indemnities; and the status of pilot programs for microreactors, including suitable locations for pilot activities.

ARTIFICIAL INTELLIGENCE COORDINATION

The agreement supports the artificial intelligence activities of the Department of Defense which are intended to improve the affordability and effectiveness of military operations. The agreement is concerned, however, about a lack of coordination among the myriad of artificial intelligence programs within the Department and the military

Services. Therefore, the Director of the Joint Artificial Intelligence Center is directed to provide the congressional defense committees, not later than 120 days after the enactment of this Act, an inventory of all artificial intelligence activities to include each program's appropriation, project, and line number; the current and future years defense program funding; the identification of academic or industry mission partners, if applicable; and any planned transition partners.

ARSENAL SUPPLY CHAIN SECURITY PROOF OF CONCEPT

The agreement provides \$3,500,000 and directs the Under Secretary of Defense (Research and Engineering) to utilize these funds to provide cybersecurity resources and to address cybersecurity challenges and digital modernization efforts at Army arsenals through partnerships with digital manufacturing institute efforts. This language replaces the language under the heading "Arsenal Security" in House Report 116-453.

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY SMALL BUSINESS SET ASIDE APPLICATION

The agreement notes challenges posed to the effective analysis of the budget of the Defense Advanced Research Projects Agency (DARPA) due to practices within the agency of balancing the Small Business Innovation Research set asides across the DARPA portfolio based on program execution rather than proportionally from each program element. Such practices are not permitted. The agreement reminds the Director of DARPA, and all defense agencies, that section 8052 of this Act requires that "the Small Business Innovation Research program and the Small Business Technology Transfer program set asides shall be taken proportionally from all programs, projects, or activities to the extent they contribute to the extramural budget." Proportional

application of the set aside aids congressional budget oversight by ensuring accurate visibility into under executing programs and program element requirements. The agreement expects these requirements to be followed by all elements of the Department of Defense.

OPERATIONAL TEST AND EVALUATION, DEFENSE

The agreement provides \$257,120,000 for Operational Test and Evaluation, Defense, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
OPERATIONAL TEST AND EVALUATION	100,021	100,021
LIVE FIRE TESTING	70,933	70,933
OPERATIONAL TEST ACTIVITIES AND ANALYSIS	39,136	86,166
Program increase - DWR joint test and evaluation program restoral		22,030
Program increase - mid-tier acquisitions/rapid prototyping oversight		25,000
TOTAL, OPERATIONAL TEST & EVALUATION, DEFENSE	210,090	257,120

TITLE V - REVOLVING AND MANAGEMENT FUNDS

The agreement provides \$1,473,910,000 in Title V, Revolving and Management Funds.

DEFENSE WORKING CAPITAL FUNDS

The agreement provides \$1,473,910,000 for Defense Working Capital Funds, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
WORKING CAPITAL FUND, ARMY	56,717	181,717
Industrial Operations	32,551	157,551
Program increase - Arsenals Initiative		125,000
Supply Management	24,166	24,166
WORKING CAPITAL FUND, AIR FORCE	95,712	95,712
Supplies and Materials	95,712	95,712
WORKING CAPITAL FUND, DEFENSE-WIDE	49,821	49,821
DEFENSE WORKING CAPITAL FUND, DECA	1,146,660	1,146,660
TOTAL, DEFENSE WORKING CAPITAL FUNDS	1,348,910	1,473,910

TITLE VI - OTHER DEPARTMENT OF DEFENSE PROGRAMS

The agreement provides \$36,024,275,000 in Title VI, Other Department of Defense Programs, as follows:

~~(INSERT OTHER DOD PROGRAMS SUMMARY TABLE)~~ e

insert 146A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

TITLE VI		
OTHER DEPARTMENT OF DEFENSE PROGRAMS		
Defense Health Program		
Operation and maintenance.....	31,349,553	30,747,659
Procurement.....	617,926	544,369
Research, development, test and evaluation.....	722,893	2,392,579
Total, Defense Health Program 1/.....	----- 32,690,372	----- 33,684,607
Chemical Agents and Munitions Destruction, Defense:		
Operation and maintenance.....	106,691	106,691
Procurement.....	616	616
Research, development, test and evaluation.....	782,193	942,493
Total, Chemical Agents 2/.....	----- 889,500	----- 1,049,800
Drug Interdiction and Counter-Drug Activities, Defense1/.....	769,629	914,429
Office of the Inspector General 1/.....	371,439	375,439
	=====	=====
Total, title VI, Other Department of Defense Programs.....	34,720,940	36,024,275
	=====	=====

146A

DEFENSE HEALTH PROGRAM

The agreement provides \$33,684,607,000 for the Defense Health Program, as follows:

~~(INSERT COMPUTER TABLE)~~

Insert 147A-D

~~(INSERT PROJECT LEVEL TABLE)~~

e

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

DEFENSE HEALTH PROGRAM		
OPERATION AND MAINTENANCE		
10	IN-HOUSE CARE.....	9,560,564 9,152,707
20	PRIVATE SECTOR CARE.....	15,841,887 15,711,537
30	CONSOLIDATED HEALTH SUPPORT.....	1,338,269 1,333,869
40	INFORMATION MANAGEMENT.....	2,039,910 2,089,039
50	MANAGEMENT ACTIVITIES.....	330,627 330,627
60	EDUCATION AND TRAINING.....	315,691 328,285
70	BASE OPERATIONS/COMMUNICATIONS.....	1,922,605 1,930,210
	UNDISTRIBUTED REDUCTION - EXCESS TO NEED.....	--- -136,015
	UNDISTRIBUTED INCREASE (AMENDMENTS).....	--- 7,400
	SUBTOTAL, OPERATION AND MAINTENANCE.....	31,349,553 30,747,659

PROCUREMENT		
150	INITIAL OUTFITTING.....	22,932 22,932
160	REPLACEMENT AND MODERNIZATION.....	215,618 215,618
170	JOINT OPERATIONAL MEDICINE INFORMATION SYSTEM.....	--- 2,620
180	MILITARY HEALTH SYSTEM - DESKTOP TO DATACENTER.....	70,872 70,872
180	DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION.....	308,504 232,327
	SUBTOTAL, PROCUREMENT.....	617,926 544,369

RESEARCH DEVELOPMENT TEST AND EVALUATION		
80	RESEARCH.....	8,913 8,913
90	EXPLORATORY DEVELOPMENT.....	73,984 73,984
100	ADVANCED DEVELOPMENT.....	225,602 230,602
110	DEMONSTRATION/VALIDATION.....	132,331 147,331
120	ENGINEERING DEVELOPMENT.....	55,748 101,962
130	MANAGEMENT AND SUPPORT.....	48,672 48,672
140	CAPABILITIES ENHANCEMENT.....	17,215 17,215
150	UNDISTRIBUTED MEDICAL RESEARCH.....	--- 1,763,900
	SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION	562,465 2,392,579
190	SOFTWARE & DIGITAL TECHNOLOGY PILOT PROGRAMS.....	160,428 ---
	TOTAL, DEFENSE HEALTH PROGRAM.....	32,690,372 33,684,607
	=====	=====

147A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

	Budget Request	Final Bill
OPERATION AND MAINTENANCE		
IN-HOUSE CARE	9,560,564	9,152,707
Medical reform implementation - excess funding to replace military medical end strength		-334,613
Misaligned program growth		-29,539
Descoping of military treatment facilities funding restoration		36,260
Inadequate justification		-9,065
Program increase - telehealth for military children and families		5,000
Printing and reproduction excess growth		-6,300
Medical care contracts excess growth		-40,100
Equipment purchases excess growth		-29,500
PRIVATE SECTOR CARE	15,841,887	15,711,537
Medical reform implementation - excess growth		-114,000
Pharmaceutical drugs excess growth		-16,350
CONSOLIDATED HEALTH SUPPORT	1,338,269	1,333,869
Program increase - therapeutic service dog training program		11,000
Program increase - digital hearing records		2,000
Program increase - sexual trauma treatment pilot program		4,000
Program increase - armed forces medical examiner DNA testing to support POW/MIA efforts		4,000
Historical underexecution		-25,400
INFORMATION MANAGEMENT	2,039,910	2,089,039
DHMSM excess growth		-11,475
JOMIS - transfer from software and digital technology pilot programs		108,548
Tri-service IM/IT excess growth		-52,944
Program increase - digital solution prototype for wellness		5,000
EDUCATION AND TRAINING	315,691	328,285
Program increase - Health Profession Scholarship		6,000
Uniformed Services University of the Health Sciences funding restoration		10,000
Program increase - specialized medical pilot program		2,500
Equipment purchases excess growth		-5,908
BASE OPERATIONS AND COMMUNICATIONS	1,922,605	1,930,210
FSRM funding restoration		29,505
Historical underexecution		-21,900
UNDISTRIBUTED REDUCTION - EXCESS TO NEED		-136,015
UNDISTRIBUTED - SUICIDE PREVENTION PROGRAMS		7,400
TOTAL, OPERATION AND MAINTENANCE	31,349,553	30,747,659

(147B)

	Budget Request	Final Bill
PROCUREMENT		
Excess to need		-76,177
JOMIS - transfer from software and digital technology pilot programs		2,620
TOTAL, PROCUREMENT	617,926	544,369
RESEARCH AND DEVELOPMENT		
JOMIS - transfer from software and digital technology pilot programs		49,260
JOMIS excess growth		-3,046
Program increase - NDMS medical surge pilot		15,000
Program increase - advanced modeling and simulation		5,000
Restore core funding reduction		274,900
Peer-reviewed alcohol and substance use disorders research		4,000
Peer-reviewed ALS research		40,000
Peer-reviewed alzheimer research		15,000
Peer-reviewed autism research		15,000
Peer-reviewed bone marrow failure disease research		7,500
Peer-reviewed breast cancer research		150,000
Peer-reviewed cancer research		115,000
Peer-reviewed Duchenne muscular dystrophy research		10,000
Peer-reviewed epilepsy research		12,000
Peer-reviewed gulf war illness research		22,000
Peer-reviewed hearing restoration research		10,000
Peer-reviewed kidney cancer research		50,000
Peer-reviewed lung cancer research		20,000
Peer-reviewed lupus research		10,000
Peer-reviewed medical research		370,000
Peer-reviewed melanoma research		30,000
Peer-reviewed multiple sclerosis research		20,000
Peer-reviewed orthopedic research		30,000
Peer-reviewed ovarian cancer research		35,000
Peer-reviewed pancreatic cancer research		15,000
Peer-reviewed prostate cancer research		110,000
Peer-reviewed rare cancers research		17,500
Peer-reviewed reconstructive transplant research		12,000
Peer-reviewed scleroderma research		5,000
Peer-reviewed spinal cord research		40,000
Peer-reviewed tickborne disease research		7,000
Peer-reviewed traumatic brain injury and psychological health research		175,000
Peer-reviewed tuberous sclerosis complex research		8,000
Peer-reviewed vision research		20,000
Global HIV/AIDS prevention		8,000
HIV/AIDS program increase		16,000
Joint warfighter medical research		40,000
Orthotics and prosthetics outcome research		15,000
Chronic pain management		15,000
Trauma clinical research program		10,000
Combat readiness medical research		10,000
TOTAL, RESEARCH AND DEVELOPMENT	562,465	2,392,579

(1470)

	Budget Request	Final Bill
JOMIS - SOFTWARE PILOT PROGRAM	160,428	0
JOMIS - transfer to Operation and Maintenance, Information Management		-108,548
JOMIS - transfer to Procurement		-2,620
JOMIS - transfer to Research and Development		-49,260

(147D)

REPROGRAMMING GUIDANCE FOR THE DEFENSE HEALTH PROGRAM
(INCLUDING BASE AND OVERSEAS CONTINGENCY OPERATIONS FUNDING)

The agreement directs that the In-House Care and Private Sector Care budget sub-activities remain designated as congressional special interest items. Any transfer of funds into or out of these sub-activities requires the Secretary of Defense to follow prior approval reprogramming procedures. The Secretary of Defense is further directed to provide a report to the congressional defense committees not later than 30 days after the enactment of this Act that delineates transfers of funds and the dates any transfers occurred from the Private Sector Care budget sub-activity to any other budget sub-activity in fiscal year 2020.

The Assistant Secretary of Defense (Health Affairs) is directed to provide quarterly reports and 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

The agreement provides one percent carryover authority for the operation and maintenance account of the Defense Health Program. The Assistant Secretary of Defense (Health Affairs) is directed to submit a detailed spending plan for any fiscal year 2020 designated carryover funds to the congressional defense committees not less than 30 days prior to executing the carryover funds.

PEER-REVIEWED CANCER RESEARCH PROGRAM

The agreement provides \$115,000,000 for the peer-reviewed cancer research program to research cancers not addressed in the breast, pancreatic, prostate, ovarian, kidney, lung, melanoma, and rare cancer research programs.

The funds provided in the peer-reviewed cancer research program are directed to be used to conduct research in the following areas: cancers associated with the use of beryllium; bladder cancer; blood cancers; brain cancer; colorectal cancer; endometrial cancer; esophageal cancer; germ cell cancers; head and neck cancer; liver cancer; lymphoma; mesothelioma; metastatic cancers; neuroblastoma; pediatric brain tumors; pediatric, adolescent, and young adult cancers; sarcoma; stomach cancer; thyroid cancer, and the link between scleroderma and cancer. The peer-reviewed cancer research program shall be used only for the purposes listed above. The inclusion of the individual rare cancer research program shall not prohibit the peer-reviewed cancer research program from funding the above-mentioned cancers or cancer subtypes that may be rare by definition.

The report directed under this heading in House Report 116-453 is still required to be provided not later than 12 months after the enactment of this Act.

PEER-REVIEWED MEDICAL RESEARCH PROGRAM

The agreement provides \$370,000,000 for a peer-reviewed medical research program. The Secretary of Defense, in conjunction with the Service Surgeons General, is directed to select medical research projects of clear scientific merit and direct relevance to military health. Research areas considered under this funding are restricted to: arthritis, burn pit exposure, cardiomyopathy, congenital heart disease, diabetes, dystonia,

eating disorders, emerging viral diseases, endometriosis, epidermolysis bullosa, familial hypercholesterolemia, fibrous dysplasia, focal segmental glomerulosclerosis, food allergies, Fragile X, frontotemporal degeneration, hemorrhage control, hepatitis B, hydrocephalus, hypertension, inflammatory bowel diseases, malaria, metals toxicology, mitochondrial disease, myalgic encephalomyelitis/chronic fatigue syndrome, myotonic dystrophy, non-opioid therapy for pain management, nutrition optimization, pathogen-inactivated blood products, peripheral neuropathy, plant-based vaccines, platelet like cell production, polycystic kidney disease, pressure ulcers, pulmonary fibrosis, respiratory health, rheumatoid arthritis, sleep disorders and restriction, suicide prevention, sustained release drug delivery, vascular malformations, and women's heart disease. The additional funding provided under the peer-reviewed medical research program shall be devoted only to the purposes listed above.

ELECTRONIC HEALTH RECORDS

The agreement directs the Secretary of Defense to provide a report to the congressional defense committees not later than 90 days after the enactment of this Act on the status of the installation of all remaining information technology and related infrastructure required to complete the deployment of the electronic health record system, including the timeline to complete installation, and costs associated if the Department accelerated the deployment timeline.

The agreement 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. It is expected that the Program Executive Officer, Defense Healthcare Management Systems

(PEO DHMS) will facilitate quarterly performance reviews by providing the Comptroller General with regular and in-depth access to the program.

The agreement directs the Director, Operational Test and Evaluation to conduct an evaluation of change management strategies and training programs related to the deployment of MHS GENESIS and to provide a briefing to the House and Senate Appropriations Committees not later than 90 days after the enactment of this Act on related findings and recommendations for improvement.

The agreement directs the PEO DHMS 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 to better track the progress of resolving the issues identified in the initial deployment of MHS GENESIS. The PEO DHMS, in conjunction with the Director of the Interagency Program Office 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 of the program, including indirect costs being funded outside of the DHMS Modernization Electronic Health Record program; and schedule of the program, to include milestones, knowledge points, and acquisition timelines, as well as quarterly obligation reports.

The Director of the Interagency Program Office is directed to provide quarterly reports to the House and Senate Appropriations Committees, Subcommittees on Defense and Military Construction, Veterans Affairs, and Related Agencies on the progress of interoperability between the two Departments.

CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS

The agreement directs the Comptroller General to conduct a comprehensive review of the Congressionally Directed Medical Research Programs that includes the program's ability to execute annual appropriations; measure its return on research investment; and analyze its research coordination with the National Institute of Health and the Department of Veterans Affairs. The agreement directs the Comptroller General to brief the House and Senate Appropriations Committees on its preliminary findings not later than 180 days after the enactment of this Act and to provide a full report to the same Committees at a date agreed upon at that time of the preliminary briefing.

RESTRUCTURING MILITARY TREATMENT FACILITIES

The agreement directs the Assistant Secretary of Defense (Health Affairs), in coordination with the Director of the Defense Health Agency and the Service Surgeons General, to submit to the congressional defense committees an implementation plan prior to the obligation of funds in fiscal year 2021 to close or restructure any military treatment facilities. The plan shall include detailed impacts to medical manpower; updated information and analysis on the accessibility and quality of nearby civilian health-care providers; military readiness; cost-effectiveness, including reimbursement rates for TRICARE; and an assessment of Government Accountability Office recommendations for future transitions.

MILITARY TREATMENT FACILITY TRANSITION

The Comptroller General is directed 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 military treatment facilities (MTF) to the Defense Health Agency (DHA). The report shall include a review of functions at facilities that have already transitioned, including DHA's role or management and the administration support that the Services are providing and a timeline for that support to cease; cost implications of the transition, including the Department's plan for maximizing efficiencies and reducing duplication; the current and planned DHA staffing model; and how the DHA will ensure that the Services' medical requirements are considered and met. The agreement also directs the Assistant Secretary of Defense (Health Affairs) 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.

FACILITIES SUSTAINMENT, RESTORATION AND MODERNIZATION

The Director of the Defense Health Agency, in coordination with the Secretary of Defense (Health Affairs) and the Service Surgeons General, is directed to submit to the congressional defense subcommittees not later than 180 days after the enactment of this Act, a comprehensive plan to address the defense medical facilities sustainment, restoration and modernization unfunded requirements and recommendations detailed in the Department of Defense Inspector General audit report.

JOINT WARFIGHTER MEDICAL RESEARCH PROGRAM

The Assistant Secretary of Defense (Health Affairs) is directed to submit a report, not later than 12 months after the enactment of this Act, to the congressional defense committees that lists the projects that receive funding under the Joint Warfighter Medical Research Program. The report shall 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.

TRAUMATIC BRAIN INJURY/PSYCHOLOGICAL HEALTH

The Assistant Secretary of Defense (Health Affairs) is directed 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 additional funding added by Congress for psychological health and traumatic brain injury.

ORTHOTICS AND PROSTHETICS OUTCOMES RESEARCH

The Assistant Secretary of Defense (Health Affairs) is directed 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 under the Orthotics and

Prosthetics Outcomes research funding line. The report shall include the funding amount awarded to each project and the anticipated effect on patient care.

CHRONIC PAIN MANAGEMENT RESEARCH

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.

SEXUAL TRAUMA TREATMENT PILOT PROGRAM

Funds appropriated for this pilot program in fiscal year 2020 shall be distributed to civilian partners without further delay. For funds recommended for fiscal year 2021, the Assistant Secretary of Defense (Health Affairs) shall submit a spend plan to the House and Senate Appropriations Committees prior to the obligations of funds.

CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

The agreement provides \$1,049,800,000 for Chemical Agents and Munitions Destruction, Defense, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
OPERATION AND MAINTENANCE	106,691	106,691
PROCUREMENT	616	616
RESEARCH, DEVELOPMENT, TEST AND EVALUATION	782,193	942,493
Program increase - ACWA program shortfall		160,300
TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE	889,500	1,049,800

ASSEMBLED CHEMICAL WEAPONS ALTERNATIVES PROGRAM

The Program Executive Office (PEO) Assembled Chemical Weapons Alternatives (ACWA) is responsible for the safe and environmentally compliant destruction of the remaining United States chemical weapons stockpile stored at the United States Army Pueblo Chemical Depot in Colorado and the Blue Grass Army Depot in Kentucky. The deadline for completion of destruction operations, as established in 50 U.S.C. 1521(b), is not later than December 31, 2023.

Approximately \$9,620,000,000 for the ACWA program has been appropriated through fiscal year 2020. The fiscal year 2021 President's budget request includes an additional \$775,700,000 for the program. According to the program brief accompanying the budget submission, program funds are for continued destruction operations at the

Pueblo facility. At the Blue Grass facility, the funds are for continued destruction operations of sarin, mustard, and some nerve agents, and for the beginning of operations to destroy nerve rocket warheads.

In an August update to the congressional defense committees, the program office reported being on track with program activities and on schedule to meet the 2023 deadline for destruction operations. It is therefore perplexing that in November, already two months into fiscal year 2021, the Department of Defense notified Congress of a \$160,300,000 shortfall in the budget request. The Department has indicated that if additional funding is not provided, the program will breach the congressionally mandated deadline for destruction operations by four years at Blue Grass Army Depot while purportedly maintaining the deadline at the Army Pueblo Chemical Depot.

The ACWA program has already experienced a significant Nunn-McCurdy unit cost breach in 2017 and has been cited by the Department of Defense Inspector General as having schedule delays and cost overruns due to a lack of contract oversight. In 2017, the program office came to the congressional defense committees for additional unanticipated funding of \$127,000,000. It is unsatisfactory that the program office entrusted with a must-succeed mission has been allowed to be routinely mismanaged and has used Congress as its backstop against failure.

The agreement concludes that the program lacks the proper accounting mechanisms and programmatic rigor to effectively assess their status and forecast their resource needs. As such, the PEO ACWA is directed to begin providing quarterly updates to the congressional defense committees not later than one quarter after the enactment of this Act. These updates must include itemized spend plans that show any procurement of systems or components and labor costs broken out by main plant operation; static detonation chamber, broken out by operations and manufacturing/testing; non-systems contractors; and rocket processing changes, broken

out by: 1) rocket containers and skids; 2) non-destructive equipment/vertical rocket cutting machine; 3) rocket containerization system; 4) SDC 2000 equipment, installation, and training; 5) SDC 1200 equipment, installation, and training; and 6) system contractor labor and materials, if applicable. The updates must also include an assessment of the status of progress on all major projects and detail all program risks and the steps the program is taking to mitigate risks. Each update must make note of any programmatic or budgetary changes since the previous update. Finally, each update must provide schedule projections for meeting the December 31, 2023 deadline.

Additionally, the PEO ACWA is directed to work with the congressional defense committees to determine what, if any, changes should be made to budget materials to provide more transparency into the cost drivers of the program and to the budgetary changes required to support the program goals.

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

The agreement provides \$914,429,000 for Drug Interdiction and Counter-Drug Activities, Defense, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
COUNTER-NARCOTICS SUPPORT	546,203	567,003
Program increase - multi-mission support vessel		18,000
Program increase - Pacific Deterrence Initiative - Joint Interagency Task Force West Project 9202		2,800
DRUG DEMAND REDUCTION PROGRAM	123,704	127,704
Program increase - young Marines drug demand reduction		4,000
NATIONAL GUARD COUNTER-DRUG PROGRAM	94,211	194,211
Program increase		100,000
NATIONAL GUARD COUNTER-DRUG SCHOOLS	5,511	25,511
Program increase		20,000
TOTAL, DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE	769,629	914,429

DRUG-INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

The agreement includes funds requested for international programs in the Northern Command and Southern Command areas of responsibility, including \$17,080,000 to support counter illicit drug trafficking operations in Southern Command. The Secretary of Defense is directed to ensure that international programs requested and supported by this account do not duplicate programs funded under the Defense Security Cooperation Agency in the Operation and Maintenance, Defense-Wide account.

The agreement also includes \$194,211,000 for the National Guard Counter-Drug Program and an additional \$31,768,000 is included under Counter-Narcotics Support for operational support to the National Guard.

The Secretary of Defense is directed to provide quarterly reports to House and Senate Appropriations Committees on the use and status of funds provided under this heading, including information for each project as identified in the PB-47 Project Definitions budget exhibit of the fiscal year 2021 budget justification materials and other documentation supporting the fiscal year 2021 Department of Defense budget request.

OFFICE OF THE INSPECTOR GENERAL

The agreement provides \$375,439,000 for the Office of the Inspector General, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

	Budget Request	Final Bill
OPERATION AND MAINTENANCE	369,483	373,483
Program increase - oversight of PL 116-136 funding		4,000
PROCUREMENT	858	858
RESEARCH, DEVELOPMENT, TEST AND EVALUATION	1,098	1,098
TOTAL, OFFICE OF THE INSPECTOR GENERAL	371,439	375,439

QUARTERLY END STRENGTH AND EXECUTION REPORTS

The Department of Defense Inspector General is directed to provide quarterly reports to the congressional defense committees on civilian personnel end strength, full-time equivalents, and budget execution not later than 15 days after the end of each fiscal quarter. The reports should contain quarterly civilian personnel end strength and full-time equivalents as well as an estimate of fiscal year end strength and fiscal year full-time equivalents. The reports should also include quarterly budget execution data along with revised fiscal year estimated execution data. The Inspector General is directed to provide realistic end of fiscal year estimates based on personnel trends to date.

TITLE VII - RELATED AGENCIES

The agreement provides \$1,147,719,000 in Title VII, Related Agencies, as follows:

~~(INSERT COMPUTER TABLE)~~

insert 162A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

TITLE VII		
RELATED AGENCIES		
Central Intelligence Agency Retirement and Disability System Fund.....	514,000	514,000
Intelligence Community Management Account (ICMA).....	663,000	633,719
	=====	=====
Total, title VII, Related agencies.....	1,177,000	1,147,719
	=====	=====

162A

CLASSIFIED ANNEX

Adjustments to classified programs are addressed in a separate, detailed, and comprehensive classified annex. The Intelligence Community, the Department of Defense, and other organizations are expected to fully comply with the recommendations and directions in the classified annex accompanying the Department of Defense Appropriations Act, 2021.

CENTRAL INTELLIGENCE AGENCY RETIREMENT AND DISABILITY
SYSTEM FUND

The agreement provides \$514,000,000 for the Central Intelligence Agency Retirement and Disability Fund.

INTELLIGENCE COMMUNITY MANAGEMENT ACCOUNT

The agreement provides \$633,719,000, a decrease of \$29,281,000 below the budget request, for the Intelligence Community Management Account.

TITLE VIII – GENERAL PROVISIONS

The agreement incorporates general provisions which were not amended. Those general provisions that were addressed in the agreement are as follows:

(TRANSFER OF FUNDS)

The agreement modifies a provision proposed by the House which provides general transfer authority not to exceed \$4,000,000,000.

The agreement modifies a provision proposed by the House which identifies tables as Explanation of Project Level Adjustments.

The agreement retains a provision which provides for the establishment of a baseline for application of reprogramming and transfer authorities for the current fiscal year. The House bill contained a similar provision.

The agreement includes a provision proposed by the House regarding humanitarian and civic assistance.

The agreement modifies a provision proposed by the House regarding management of civilian personnel of the Department of Defense.

The agreement includes a provision which provides for the transfer of funds to the Defense Pilot Mentor-Protégé Program. The House bill contained a similar provision.

The agreement includes a provision proposed by the House regarding limitations on the use of funds to purchase anchor and mooring chains.

The agreement retains a provision which restricts the use of funds to reduce or prepare to reduce the number of deployed and non-deployed strategic delivery vehicles and launchers. The House bill contained no similar provision.

The agreement includes a provision proposed by the House regarding incentive payments authorized by the Indian Financing Act of 1974.

The agreement modifies a provision proposed by the House which requires notification regarding funds received from foreign governments related to the stationing or operations of United States Armed Forces.

The agreement modifies a provision proposed by the House which limits the number of staff-years of technical effort at Department of Defense Federally Funded Research and Development Centers.

The agreement includes a provision regarding overseas military facility investment. The House bill contained a similar provision.

The agreement modifies a new provision providing additional transfer authority for amphibious assault ships. The House bill contained no similar provision.

The agreement includes a provision proposed by the House which provides funds for the Asia-Pacific Regional Initiative Program for the purpose of enabling the Indo-Pacific Command to execute Theater Security Cooperation activities.

The agreement includes a provision proposed by the House regarding the availability of certain CIA funds for transfer or extension.

The agreement retains a provision proposed by the House regarding mitigation of environmental impacts on Indian lands resulting from Department of Defense activities.

(RESCISSIONS)

The agreement modifies a provision proposed by the House recommending rescissions and provides for the rescission of \$3,248,047,000. The rescissions agreed to are:

2014 Appropriations:

Shipbuilding and Conversion, Navy:

DDG-51: DDG 119.....\$66,567,000

2019 Appropriations:

Procurement of Weapons and Tracked Combat Vehicles, Army:

Armored Multi-Purpose Vehicle9,590,000

Bradley program modifications14,250,000

Aircraft Procurement, Navy:

Joint Strike Fighter CV	45,000
Joint Strike Fighter STOVL.....	66,000
MQ-4 Triton (AP).....	7,983,000
AEA systems.....	15,000,000
Aircraft Procurement, Air Force:	
F-35	25,928,000
C-135B	124,727,000
KC-46A MDAP	9,400,000
HC-130J recap.....	17,500,000
MC-130J recap.....	41,124,000
Combat Rescue Helicopter	25,000,000
B-52 1760 IWBU	14,100,000
F-16	45,255,000
C-5.....	1,600,000
OC-135B	5,744,000
RQ-4 modifications.....	114,800,000
Initial spares/repair parts.....	21,069,000
RQ-4 spares.....	2,100,000
RQ-4 post production support.....	17,100,000
Other Procurement, Air Force:	
Classified adjustment.....	12,400,000
2020 Appropriations:	
Aircraft Procurement, Army:	
AH-64 Apache Block IIIA reman.....	22,500,000
UH-60 Black Hawk L and V models.....	4,400,000
Missile Procurement, Army:	
Stinger mods	2,377,000
Procurement of Weapons and Tracked Combat Vehicles, Army:	
Armored Multi-Purpose Vehicle	78,000,000
Bradley program modifications	61,141,000
Paladin Integrated Management	9,000,000
Procurement of Ammunition, Army:	
Proj 155mm Extended Range M982.....	7,500,000
Other Procurement, Army:	
Ground Mobility Vehicles	2,278,000
PLS/ESP.....	1,297,000
Spider Family of Networked Munitions	9,600,000
Aircraft Procurement, Navy:	
Joint Strike Fighter CV	13,060,000

Joint Strike Fighter STOVL.....	10,878,000
Joint Strike Fighter STOVL (AP).....	83,185,000
CH-53K (AP).....	89,583,000
P-8A Poseidon.....	77,600,000
E-2D.....	18,000,000
Advanced Helicopter Training System.....	57,737,000
KC-130J.....	14,878,000
MQ-4 Triton (AP).....	10,070,000
F-18 Series.....	42,137,000
Weapons Procurement, Navy:	
Undistributed increase - ESB.....	7,500,000
Procurement of Ammunition, Navy and Marine Corps:	
Practice bombs.....	8,388,000
5"/54 gun ammo.....	585,000
Shipbuilding and Conversion, Navy:	
TAO Fleet Oiler (AP).....	73,000,000
CVN Refueling Overhauls.....	13,100,000
Other Procurement, Navy:	
CG modernization.....	22,920,000
LSD midlife and modernization.....	22,632,000
Aviation support equipment.....	10,000,000
Surface combatant HM&E.....	31,500,000
Procurement, Marine Corps:	
Modification kits.....	20,139,000
Radio systems.....	35,000,000
Aircraft Procurement, Air Force:	
F-35.....	25,358,000
KC-46A MDAP.....	209,588,000
MC-130J recap.....	79,874,000
Combat Rescue Helicopter.....	65,000,000
E-11 BACN Gateway urgent operational need.....	43,000,000
F-22A.....	39,752,000
KC-46A modifications.....	5,213,000
C-5 CNS/ATM.....	7,900,000
C-17 BLOS.....	4,385,000
C-130J modifications.....	3,403,000
Initial spares/repair parts.....	34,946,000
RQ-4 spares.....	700,000
RQ-4 post production charges.....	23,896,000

Missile Procurement, Air Force:	
ALCM	19,500,000
ICBM fuze modifications	5,000,000
Space Procurement, Air Force:	
National Security Space Launch.....	64,400,000
Other Procurement, Air Force:	
Classified adjustment.....	20,000,000
GCSS-AF FOS (LOGIT)	11,226,000
Wide area surveillance	35,500,000
Research, Development, Test and Evaluation, Army:	
Indirect Fire Protection Capability Inc 2 Block 1.....	74,286,000
Manned Ground Vehicle.....	130,415,000
Long Range Precision Fires.....	30,000,000
Improved Turbine Engine Program	49,527,000
Research, Development, Test and Evaluation, Navy:	
New Design SSN	70,000,000
Classified adjustment.....	14,005,000
Research, Development, Test and Evaluation, Air Force:	
ALCM	6,000,000
Arms control implementation	33,848,000
B-52 ATP display	3,000,000
B-52 CERP.....	10,000,000
B-52 RMP	5,800,000
Combat Rescue Helicopter	17,000,000
Hypersonics prototyping.....	67,800,000
KC-46A.....	13,868,000
Combat training ranges.....	1,500,000
Long Range Standoff Weapon.....	20,000,000
B-2 defensive management system.....	25,700,000
Air and Space Operations Center	12,980,000
Evolved Strategic SATCOM	18,500,000
Classified adjustment.....	15,813,000
Research, Development, Test and Evaluation, Defense-Wide:	
Tactical technology.....	11,900,000
Counter weapons of mass destruction applied research	3,000,000
Combating terrorism technology support	8,500,000
Space programs and technology	13,800,000
Emerging capabilities technology development.....	36,000,000

Quick reaction special projects	9,000,000
Operational energy capability improvement	10,000,000
Information technology development.....	1,500,000
Information systems security program (OSD).....	20,000,000
Information systems security program (DISA)	4,000,000
Ballistic missile defense enabling programs.....	2,031,000
BMD targets.....	300,000
Technology maturation initiatives	6,400,000
Hypersonic defense.....	12,500,000
MDA hypersonic defense – partner test	25,100,000
Improved homeland defense interceptors	214,000,000
Defense Working Capital Funds:	
Defense Counterintelligence and Security Agency	
Working Capital Fund.....	100,000,000

The agreement retains a provision which prohibits funds from being obligated or expended for assistance to the Democratic People’s Republic of Korea with certain exceptions. The House bill contained a similar provision.

The agreement retains a provision proposed by the House allowing reimbursement for Reserve Component intelligence support to combatant commands, defense agencies, and joint intelligence activities.

The agreement retains a provision proposed by the House restricting procurement of ball and roller bearings other than those produced by a domestic source and of domestic origin.

The agreement includes a provision which makes funds available to maintain competitive rates at the arsenals. The House bill contained no similar provision.

The agreement modifies a provision proposed by the House which provides funding to the United Service Organizations and the Red Cross.

The agreement includes a provision requiring set-asides for Small Business Innovation Research and Small Business Technology Transfer to be taken proportionally from all programs. The House bill contained a similar provision.

(TRANSFER OF FUNDS)

The agreement includes a provision proposed by the House which provides funding to the Sexual Assault Special Victim's Counsel Program.

The agreement includes a provision which limits the use of research and development funds to procure end-items. The House bill contained a similar provision.

The agreement includes a provision which restricts certain funds for any new start advanced concept technology demonstration project or joint capability demonstration project. The House bill contained a similar provision.

The agreement includes a provision proposed by the House requiring classified quarterly reports.

(TRANSFER OF FUNDS)

The agreement includes a provision providing funds for a classified Operation and Maintenance, Army transfer. The House bill contained a similar provision.

The agreement includes a provision regarding the National Intelligence Program budget. The House bill contained a similar provision.

The agreement modifies a provision proposed by the House which provides a grant to the Fisher House Foundation, Inc.

The agreement includes a provision proposed by the House relating to the assignment of forces.

The agreement includes a provision proposed by the House requiring notification relating to rapid acquisition authority.

The agreement includes a provision which provides funding for prior year shipbuilding cost increases. The House bill contained a similar provision.

The agreement retains a provision which prohibits funding from being used to initiate a new start program without prior written notification. The House bill contained a similar provision.

The agreement includes a provision regarding contingency budget operations. The House bill contained a similar provision.

The agreement retains a provision that allows the use of funds for the rapid acquisition and deployment of supplies and associated support services. The House bill contained a similar provision.

The agreement includes a provision which limits the reprogramming of funds from the Department of Defense Acquisition Workforce Development Account. The House bill contained a similar provision.

The agreement includes a new provision relating to Space Force satellite on-orbit incentive payments. The House bill contained no similar provision.

The agreement retains a provision which provides the Director of National Intelligence with general transfer authority with certain limitations. The House bill contained a similar provision.

The agreement retains a provision which restricts the transfer of Khalid Sheik Mohammad and others. The House bill contained no similar provision.

The agreement retains a provision which prohibits funds to transfer any individual detained at Guantanamo Bay, Cuba to a country of origin or other foreign country or entity unless the Secretary of Defense makes certain certifications. The House bill contained no similar provision.

The agreement includes a provision proposed by the House which limits funding to Rosoboronexport.

The agreement retains a provision proposed by the House which prohibits funds from being used for the purchase or manufacture of a United States flag unless such flags are treated as covered items under section 2533a(b) of title 10, U.S.C.

The agreement retains a provision which prohibits funds to construct, acquire, or modify any facility in the United States, its territories, or possessions to house any

Guantanamo Bay detainee, with certain exceptions. The House bill contained no similar provision.

The agreement modifies a new provision which authorizes the use of funds in the Shipbuilding and Conversion, Navy account to purchase two used auxiliary vessels for the National Defense Reserve Fleet. The House bill contained no similar provision.

The agreement retains a provision proposed by the House which requires the Secretary of Defense to post grant awards on a public website in a searchable format.

The agreement modifies a provision proposed by the House regarding the reduction and reprogramming of funds to the Rapid Prototyping Fund.

The agreement includes a provision which provides funding for the National Defense Reserve Fleet. The House bill contained a similar provision.

The agreement includes a provision which requires the Secretary to submit reports regarding the National Instant Criminal Background Check System. The House bill contained no similar provision.

The agreement retains a provision which prohibits funds from the Department of Defense Acquisition Workforce Development Account to be transferred to the Rapid Prototyping Fund or credited to a military-department specific fund. The House bill contained a similar provision.

The agreement retains a provision proposed by the House which prohibits the use of funds for gaming or entertainment that involves nude entertainers.

The agreement includes a provision proposed by the House which prohibits funding to deliver F-35 aircraft to Turkey, except in accordance with the National Defense Authorization Act for Fiscal Year 2020.

The agreement does not include a provision proposed by the House which provides reprogramming authority for the Global Engagement Center.

The agreement retains a provision proposed by the House which makes funds available through the Office of Economic Adjustment for transfer to the Secretary of Education, to make grants to construct, renovate, repair, or expand elementary and secondary public schools on military installations.

The agreement retains a provision which prohibits the use of funds to carry out the closure or realignment of Guantanamo Bay, Cuba. The House bill contained no similar provision.

The agreement retains a provision proposed by the House which removes limits on certain types of assisted reproductive services.

The agreement retains a provision which prohibits funds for equipment for ceremonial honors. The House bill contained a similar provision.

The agreement retains a provision proposed by the House which allows death gratuity payments as authorized in subchapter II of chapter 75 of title 10, United States Code.

The agreement modifies a provision proposed by the House which prohibits funds from being used to transfer the National Reconnaissance Office to the Space Force.

The agreement modifies a new provision proposed by the House that prohibits funds from being used to transfer certain Department of Defense components to the Space Force.

The agreement includes a new provision that provides funds appropriated for military personnel matters to be used for members of the Space Force. The House bill contained a similar provision.

The agreement modifies a provision proposed by the House which reduces funding due to favorable foreign exchange rates.

The agreement includes a new provision which reduces funding due to fuel savings. The House bill contained a similar provision.

The agreement does not retain a provision regarding Army use of CH-47 reimbursements.

The agreement does not retain a provision proposed by the House that prohibits funds from being used to exclude or implement the exclusion of the Department of Defense from cover under the Federal Service Labor Management Relations Statute.

The agreement does not retain a new provision proposed by the House that requires the Secretary of Defense to provide information and documents regarding the massacre in El Mozote.

The agreement modifies a new provision proposed by the House regarding a pilot program for software and digital technology.

The agreement does not retain a provision proposed by the House which requires the Secretary of Defense to report on deployed personnel by each geographic combatant command.

The agreement does not retain a provision proposed by the House which requires the Secretary of Defense to provide notification before the deployment of security force assistance brigades.

The agreement includes a new provision which provides funding to assess and strengthen the manufacturing and defense industrial base and supply chain resiliency. The House bill contained no similar provision.

The agreement modifies a new provision which provides funding to improve readiness. The House bill contained no similar provision.

The agreement does not retain a new provision proposed by the House which provides funds for grants for public healthcare professionals on Guam.

The agreement modifies a new provision proposed by the House which prohibits funds for the various elements of development and design of certain future naval ships

unless any contract specifies that all auxiliary equipment, including pumps and propulsion shafts are manufactured in the United States.

The agreement modifies a new provision proposed by the House which prohibits funds for the decommissioning the USS FORT WORTH or the USS CORONADO.

The agreement does not retain a provision proposed by the House which requires the Secretary of Defense to provide notification of deployments of Armed forces to locations outside the United States.

The agreement does not retain a new provision proposed by the House which prohibits funding from being used in a manner that does not comply with the requirements in section 365 of the George Floyd Justice in Policing Act of 2020.

The agreement does not retain a new provision proposed by the House which prohibits the use of funds to conduct or prepare for any explosive nuclear weapons test that produces any yield.

The agreement does not retain a new provision proposed by the House which prohibits funds by this Act or any prior Act to construct a wall, fence, border barriers, or border security infrastructure along the southern land border of the United States.

The agreement does not retain a new provision proposed by the House which requires fiscal year 2020 funds that were transferred by the Department and remain unobligated be returned to their original accounts, notwithstanding the transfer authority provided by section 8005.

The agreement does not retain a new provision proposed by the House which prohibits funds for members of the Armed Forces serving on active duty in support of security or immigration enforcement operations at the southern border unless the agency requesting such support enters into an agreement with the Secretary of Defense to reimburse the Department of Defense for all costs incurred by the Department to provide such services.

The agreement modifies a new provision proposed by the House which provides funding for mitigation of military aircraft noise.

The agreement does not retain a new provision proposed by the House which prohibits the use of funds to provide guidance on, review, prepare, approve, or recommend budget request funding levels or initiatives for the Department of Energy.

The agreement does not retain a new provision proposed by the House which provides funding for renaming Army installations, facilities, roads, and streets named after confederate leaders and officers.

The agreement adds a new provision which prohibits funds for the retirement or divestiture of the RQ-4 Global Hawk Block 30 and Block 40 aircraft.

The agreement adds a new provision prohibiting funds for the lease of an icebreaking vessel unless certain conditions are met.

**TITLE IX – OVERSEAS CONTINGENCY OPERATIONS/
GLOBAL WAR ON TERRORISM**

The agreement provides \$68,650,000,000 in Title IX, Overseas Contingency Operations/Global War on Terrorism.

MILITARY PERSONNEL

The agreement provides \$4,602,593,000 for Military Personnel, as follows:

~~(INSERT MILPERS OCO TABLE)~~ e

Insert 178A-E

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

M-1	Budget Request	Final Bill
MILITARY PERSONNEL, ARMY		
BA-1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY	450,089	450,089
RETIRED PAY ACCRUAL	121,524	121,524
BASIC ALLOWANCE FOR HOUSING	121,394	121,394
BASIC ALLOWANCE FOR SUBSISTENCE	16,302	16,302
INCENTIVE PAYS	2,379	2,379
SPECIAL PAYS	25,555	25,555
ALLOWANCES	16,194	16,194
SEPARATION PAY	2,543	2,543
SOCIAL SECURITY TAX	34,432	34,432
TOTAL, BA-1	790,412	790,412
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	777,103	777,103
RETIRED PAY ACCRUAL	209,818	209,818
BASIC ALLOWANCE FOR HOUSING	369,533	369,533
INCENTIVE PAYS	1,270	1,270
SPECIAL PAYS	66,121	66,121
ALLOWANCES	45,638	45,638
SEPARATION PAY	4,105	4,105
SOCIAL SECURITY TAX	59,449	59,449
TOTAL, BA-2	1,533,037	1,533,037
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	88,317	88,317
SUBSISTENCE-IN-KIND	297,516	297,516
TOTAL, BA-4	385,833	385,833
BA-5: PERMANENT CHANGE OF STATION TRAVEL		
OPERATIONAL TRAVEL	4,456	4,456
ROTATIONAL TRAVEL	1,055	1,055
TOTAL, BA-5	5,511	5,511
BA-6: OTHER MILITARY PERSONNEL COSTS		
INTEREST ON UNIFORMED SERVICES SAVINGS	4,035	4,035
DEATH GRATUITIES	3,100	3,100
UNEMPLOYMENT BENEFITS	19,375	19,375
SGLI EXTRA HAZARD PAYMENTS	6,730	6,730
TOTAL, BA-6	33,240	33,240
TOTAL, MILITARY PERSONNEL, ARMY	2,748,033	2,748,033

178A

M-1**Budget Request****Final Bill**

MILITARY PERSONNEL, NAVY

BA-1: PAY AND ALLOWANCES OF OFFICERS

BASIC PAY	76,596	76,596
RETIRED PAY ACCRUAL	20,681	20,681
BASIC ALLOWANCE FOR HOUSING	25,367	25,367
BASIC ALLOWANCE FOR SUBSISTENCE	2,444	2,444
INCENTIVE PAYS	432	432
SPECIAL PAYS	3,647	3,647
ALLOWANCES	7,199	7,199
SOCIAL SECURITY TAX	5,860	5,860
TOTAL, BA-1	142,226	142,226

BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL

BASIC PAY	87,750	87,750
RETIRED PAY ACCRUAL	23,692	23,692
BASIC ALLOWANCE FOR HOUSING	46,929	46,929
INCENTIVE PAYS	105	105
SPECIAL PAYS	7,849	7,849
ALLOWANCES	14,581	14,581
SOCIAL SECURITY TAX	6,713	6,713
TOTAL, BA-2	187,619	187,619

BA-4: SUBSISTENCE OF ENLISTED PERSONNEL

BASIC ALLOWANCE FOR SUBSISTENCE	9,176	9,176
SUBSISTENCE-IN-KIND	21,664	21,664
TOTAL, BA-4	30,840	30,840

BA-5: PERMANENT CHANGE OF STATION TRAVEL

ACCESSION TRAVEL	6,202	6,202
OPERATIONAL TRAVEL	60	60
ROTATIONAL TRAVEL	128	128
SEPARATION TRAVEL	5,804	5,804
TOTAL, BA-5	12,194	12,194

BA-6: OTHER MILITARY PERSONNEL COSTS

UNEMPLOYMENT BENEFITS	7,673	7,673
SGLI EXTRA HAZARD PAYMENTS	1,734	1,734
TOTAL, BA-6	9,407	9,407

TOTAL, MILITARY PERSONNEL, NAVY**382,286****382,286**

MILITARY PERSONNEL, MARINE CORPS

BA-1: PAY AND ALLOWANCES OF OFFICERS

BASIC PAY	25,398	25,398
RETIRED PAY ACCRUAL	6,858	6,858
BASIC ALLOWANCE FOR HOUSING	8,861	8,861
BASIC ALLOWANCE FOR SUBSISTENCE	820	820
INCENTIVE PAYS	255	255
SPECIAL PAYS	1,059	1,059
ALLOWANCES	1,338	1,338

178B

M-1**Budget Request****Final Bill**

SEPARATION PAY	433	433
SOCIAL SECURITY TAX	1,942	1,942
TOTAL, BA-1	46,964	46,964
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	33,876	33,876
RETIRED PAY ACCRUAL	9,148	9,148
BASIC ALLOWANCE FOR HOUSING	21,206	21,206
INCENTIVE PAYS	18	18
SPECIAL PAYS	5,630	5,630
ALLOWANCES	3,932	3,932
SEPARATION PAY	705	705
SOCIAL SECURITY TAX	2,591	2,591
TOTAL, BA-2	77,106	77,106
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	3,881	3,881
TOTAL, BA-4	3,881	3,881
BA-6: OTHER MILITARY PERSONNEL COSTS		
INTEREST ON UNIFORMED SERVICES SAVINGS	250	250
SGLI EXTRA HAZARD PAYMENTS	1,742	1,742
TOTAL, BA-6	1,992	1,992
TOTAL, MILITARY PERSONNEL, MARINE CORPS	129,943	129,943

MILITARY PERSONNEL, AIR FORCE

BA-1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY	131,426	131,426
RETIRED PAY ACCRUAL	35,485	35,485
BASIC ALLOWANCE FOR HOUSING	41,038	41,038
BASIC ALLOWANCE FOR SUBSISTENCE	4,221	4,221
SPECIAL PAYS	5,211	5,211
ALLOWANCES	5,547	5,547
SOCIAL SECURITY TAX	10,054	10,054
TOTAL, BA-1	232,982	232,982
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	347,182	347,182
RETIRED PAY ACCRUAL	93,739	93,739
BASIC ALLOWANCE FOR HOUSING	147,758	147,758
SPECIAL PAYS	23,799	23,799
ALLOWANCES	26,472	26,472
SOCIAL SECURITY TAX	26,559	26,559
TOTAL, BA-2	665,509	665,509

1780

M-1	Budget Request	Final Bill
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	34,678	34,678
SUBSISTENCE-IN-KIND	130,371	130,371
TOTAL, BA-4	165,049	165,049
BA-6: OTHER MILITARY PERSONNEL COSTS		
DEATH GRATUITIES	200	200
UNEMPLOYMENT BENEFITS	8,447	8,447
SGLI EXTRA HAZARD PAYMENTS	4,981	4,981
TOTAL, BA-6	13,628	13,628
TOTAL, MILITARY PERSONNEL, AIR FORCE	1,077,168	1,077,168
RESERVE PERSONNEL, ARMY		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	33,414	33,414
TOTAL, BA-1	33,414	33,414
TOTAL, RESERVE PERSONNEL, ARMY	33,414	33,414
RESERVE PERSONNEL, NAVY		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	11,771	11,771
TOTAL, BA-1	11,771	11,771
TOTAL, RESERVE PERSONNEL, NAVY	11,771	11,771
RESERVE PERSONNEL, MARINE CORPS		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	2,001	2,001
ADMINISTRATION AND SUPPORT	47	47
TOTAL, BA-1	2,048	2,048
TOTAL, RESERVE PERSONNEL, MARINE CORPS	2,048	2,048
RESERVE PERSONNEL, AIR FORCE		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	16,816	16,816
TOTAL, BA-1	16,816	16,816
TOTAL, RESERVE PERSONNEL, AIR FORCE	16,816	16,816

(178D)

M-1	Budget Request	Final Bill
NATIONAL GUARD PERSONNEL, ARMY		
BA-1: UNIT AND INDIVIDUAL TRAINING		
PAY GROUP A TRAINING (15 DAYS and DRILLS 24/48)	62,718	62,718
SCHOOL TRAINING	3,752	3,752
SPECIAL TRAINING	107,242	107,242
ADMINISTRATION AND SUPPORT	21,602	21,602
TOTAL, BA-1	195,314	195,314
TOTAL, NATIONAL GUARD PERSONNEL, ARMY	195,314	195,314
NATIONAL GUARD PERSONNEL, AIR FORCE		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	5,800	5,800
TOTAL, BA-1	5,800	5,800
TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE	5,800	5,800
TOTAL, MILITARY PERSONNEL	4,602,593	4,602,593

(178E)

OPERATION AND MAINTENANCE

The agreement provides \$58,832,051,000 for Operation and Maintenance, as follows:

~~(INSERT O&M OCO TABLE)~~ e

Insert 179A-I

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

O-1	Budget Request	Final Bill
OPERATION AND MAINTENANCE, ARMY		
111 MANEUVER UNITS	4,114,001	3,764,001
Insufficient justification		-100,000
Reduce program growth - Dynamic Force Employment		-250,000
113 ECHELONS ABOVE BRIGADE	32,811	32,811
114 THEATER LEVEL ASSETS	2,542,760	2,497,760
Unjustified growth		-45,000
115 LAND FORCES OPERATIONS SUPPORT	162,557	147,557
Unjustified growth		-15,000
116 AVIATION ASSETS	204,396	204,396
121 FORCE READINESS OPERATIONS SUPPORT	5,716,734	6,616,734
Unjustified growth		-100,000
Transfer from title II		1,000,000
122 LAND FORCES SYSTEMS READINESS	180,048	150,048
Unjustified growth		-30,000
123 LAND FORCES DEPOT MAINTENANCE	81,125	81,125
131 BASE OPERATIONS SUPPORT	219,029	194,029
Insufficient justification		-25,000
FACILITIES SUSTAINMENT, RESTORATION AND		
132 MODERNIZATION	301,017	226,017
Insufficient justification		-75,000
135 ADDITIONAL ACTIVITIES	966,649	966,649
136 COMMANDERS' EMERGENCY RESPONSE PROGRAM	2,500	2,000
Excess to need		-500
137 RESET	403,796	403,796
141 US AFRICA COMMAND	100,422	100,422
142 US EUROPEAN COMMAND	120,043	120,043
151 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS	98,461	98,461
153 CYBERSPACE ACTIVITIES - CYBERSECURITY	21,256	21,256
212 ARMY PREPOSITIONED STOCK	103,052	103,052

O-1	Budget Request	Final Bill
321 SPECIALIZED SKILL TRAINING	89,943	89,943
324 TRAINING SUPPORT	2,550	2,550
421 SERVICEWIDE TRANSPORTATION	521,090	521,090
422 CENTRAL SUPPLY ACTIVITIES	43,897	43,897
423 LOGISTICS SUPPORT ACTIVITIES	68,423	68,423
424 AMMUNITION MANAGEMENT	29,162	29,162
432 SERVICEWIDE COMMUNICATIONS	11,447	11,447
434 OTHER PERSONNEL SUPPORT	5,839	5,839
437 REAL ESTATE MANAGEMENT	48,782	48,782
441 INTERNATIONAL MILITARY HEADQUARTERS	50,000	50,000
411 OTHER PROGRAMS	895,964	895,964
TOTAL, OPERATION AND MAINTENANCE, ARMY	17,137,754	17,497,254
OPERATION AND MAINTENANCE, NAVY		
1A1A MISSION AND OTHER FLIGHT OPERATIONS	382,062	375,062
Insufficient justification		-7,000
1A3A AVIATION TECHNICAL DATA & ENGINEERING SVCS	832	832
1A4A AIR OPERATIONS AND SAFETY SUPPORT	17,840	17,840
1A4N AIR SYSTEMS SUPPORT	210,692	210,692
1A5A AIRCRAFT DEPOT MAINTENANCE	170,580	170,580
1A6A AIRCRAFT DEPOT OPERATIONS SUPPORT	5,854	5,854
1A9A AVIATION LOGISTICS	33,707	26,707
Insufficient justification		-7,000
1B1B MISSION AND OTHER SHIP OPERATIONS	5,817,696	5,686,556
Insufficient justification		-140,000
Program increase only for USS FORT WORTH and USS CORONADO		8,860
1B2B SHIP OPERATIONS SUPPORT & TRAINING	20,741	20,741
1B4B SHIP DEPOT MAINTENANCE	2,072,470	3,089,893
Transfer from title II		1,017,423

(179B)

O-1	Budget Request	Final Bill
1C1C COMBAT COMMUNICATIONS	59,254	59,254
1C3C SPACE SYSTEMS AND SURVEILLANCE	18,000	18,000
1C4C WARFARE TACTICS	17,324	17,324
1C5C OPERATIONAL METEOROLOGY AND OCEANOGRAPHY	22,581	22,581
1C6C COMBAT SUPPORT FORCES Insufficient justification	772,441	757,441 -15,000
EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS		
1C7C SUPPORT	5,788	5,788
1CCM COMBATANT COMMANDERS DIRECT MISSION SUPPORT	24,800	24,800
1CCY CYBERSPACE ACTIVITIES	369	369
1D4D WEAPONS MAINTENANCE Transfer from title II	567,247	578,022 10,775
1D7D OTHER WEAPON SYSTEMS SUPPORT	12,571	12,571
BSM1 FSRM	70,041	70,041
BSS1 BASE OPERATING SUPPORT	218,792	218,792
2C1H EXPEDITIONARY HEALTH SERVICES SYSTEMS	22,589	22,589
3B1K SPECIALIZED SKILL TRAINING	53,204	53,204
4A1M ADMINISTRATION	9,983	9,983
4A4M MILITARY MANPOWER AND PERSONNEL MANAGEMENT	7,805	7,805
4B1N SERVICEWIDE TRANSPORTATION	72,097	72,097
4B3N ACQUISITION AND PROGRAM MANAGEMENT	11,354	11,354
4C1P INVESTIGATIVE AND SECURITY SERVICES	1,591	1,591
TOTAL, OPERATION AND MAINTENANCE, NAVY	10,700,305	11,568,363
OPERATION AND MAINTENANCE, MARINE CORPS		
1A1A OPERATIONAL FORCES Insufficient justification Transfer from title II - European Deterrence Initiative full request	727,989	744,056 -22,000 38,067
1A2A FIELD LOGISTICS Program decreases unaccounted for	195,001	185,001 -10,000

179C

O-1	Budget Request	Final Bill
1A3A DEPOT MAINTENANCE	55,183	55,183
1CCY CYBERSPACE ACTIVITIES	10,000	10,000
BSS1 BASE OPERATING SUPPORT	24,569	24,569
3B4D TRAINING SUPPORT	28,458	28,458
4A3G SERVICEWIDE TRANSPORTATION	61,400	61,400
TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS	1,102,600	1,108,667
OPERATION AND MAINTENANCE, AIR FORCE		
11A PRIMARY COMBAT FORCES	125,551	121,551
Insufficient justification		-4,000
11C COMBAT ENHANCEMENT FORCES	916,538	881,538
Insufficient justification		-35,000
11D AIR OPERATIONS TRAINING	93,970	93,970
11M DEPOT MAINTENANCE	3,528,059	3,460,059
Insufficient justification		-75,000
Program increase - RQ-4B		7,000
11R REAL PROPERTY MAINTENANCE	147,264	147,264
11V CYBERSPACE SUSTAINMENT	10,842	10,842
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	7,187,100	7,987,100
Insufficient justification		-200,000
Transfer from title II		1,000,000
11Y FLYING HOUR PROGRAM	2,031,548	2,015,548
Insufficient justification		-16,000
11Z BASE OPERATING SUPPORT	1,540,444	1,495,444
Insufficient justification		-45,000
12A GLOBAL C3I AND EARLY WARNING	13,709	13,709
12C OTHER COMBAT OPS SPT PROGRAMS	345,800	348,800
Department requested transfer from line 44A		28,000
Unjustified growth		-25,000
12D CYBERSPACE ACTIVITIES	17,936	17,936
12F TACTICAL INTEL AND OTHER SPECIAL ACTIVITIES	36,820	36,820
13A LAUNCH FACILITIES	70	70

(179D)

O-1	Budget Request	Final Bill
13C SPACE CONTROL SYSTEMS	1,450	1,450
15C US NORTHCOM/NORAD	725	725
15D US STRATCOM	856	856
15E US CYBERCOM	35,189	35,189
15F US CENTCOM	126,934	156,134
Department requested transfer from line 42G		44,200
Unjustified request for OSC-I		-15,000
21A AIRLIFT OPERATIONS	1,271,439	1,261,439
Insufficient justification		-10,000
21D MOBILIZATION PREPAREDNESS	120,866	120,866
31A OFFICER ACQUISITION	200	200
31B RECRUIT TRAINING	352	352
32A SPECIALIZED SKILL TRAINING	27,010	27,010
32B FLIGHT TRAINING	844	844
32C PROFESSIONAL DEVELOPMENT EDUCATION	1,199	1,199
32D TRAINING SUPPORT	1,320	1,320
41A LOGISTICS OPERATIONS	164,701	164,701
41B TECHNICAL SUPPORT ACTIVITIES	11,782	11,782
42A ADMINISTRATION	3,886	3,886
42B SERVICEWIDE COMMUNICATIONS	355	355
42G OTHER SERVICEWIDE ACTIVITIES	100,831	56,631
Department requested transfer to line 15F		-44,200
44A INTERNATIONAL SUPPORT	29,928	1,928
Department requested transfer to line 12C		-28,000
43A OTHER PROGRAMS	34,502	34,502
UND UNJUSTIFIED GROWTH		-50,000
UND PROGRAM DECREASE UNACCOUNTED FOR		-30,000
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE	17,930,020	18,432,020

(179E)

O-1	Budget Request	Final Bill
OPERATION AND MAINTENANCE, SPACE FORCE		
12A GLOBAL C3I & EARLY WARNING	227	227
13A SPACE LAUNCH OPERATIONS	321	321
13C SPACE OPERATIONS	15,135	15,135
13M DEPOT MAINTENANCE	18,268	18,268
13W CONTRACTOR LOGISTICS & SYSTEMS SUPPORT	43,164	43,164
TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE	77,115	77,115
OPERATION AND MAINTENANCE, DEFENSE-WIDE		
1PL1 JOINT CHIEFS OF STAFF	3,799	3,799
8PL1 JOINT CHIEFS OF STAFF CE2T2	6,634	6,634
SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT		
1PL6 ACTIVITIES	898,024	900,984
Program increase - combat loss replacement		2,960
1PLU SPECIAL OPERATIONS COMMAND INTELLIGENCE	1,244,553	1,253,618
Program increase - classified adjustment		10,000
Repricing SOFIS contractor FTE		-935
1PL7 SPECIAL OPERATIONS COMMAND MAINTENANCE	354,951	354,284
Inflation unaccounted for in program elimination		-667
1PLV SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	104,535	104,535
1PLR SPECIAL OPERATIONS COMMAND THEATER FORCES	757,744	751,244
Excess to need - Section 1202/maintain program affordability		-6,500
4GT6 DEFENSE CONTRACT AUDIT AGENCY	1,247	1,247
4GTO DEFENSE CONTRACT MANAGEMENT AGENCY	21,723	21,723
4GTJ DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	0	13,247
Program increase - defense-wide review reductions funding restoration		13,247
4GT9 DEFENSE INFORMATION SYSTEMS AGENCY	56,256	81,133
Program increase		24,877
4GU9 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER	3,524	3,524
4GTA DEFENSE LEGAL SERVICES AGENCY	156,373	151,373
Program decrease unaccounted for		-5,000

(179F)

O-1	Budget Request	Final Bill
ES18 DEFENSE MEDIA ACTIVITY	3,555	14,377
Program increase - defense-wide review reductions funding restoration		10,822
4GTD DEFENSE SECURITY COOPERATION AGENCY	1,557,763	1,528,603
Program increase - International Security Cooperation Programs with countries in AFRICOM		55,840
Program increase - International Security Cooperation Programs - EUCOM - Baltic Security Initiative		25,000
Program increase - Ukraine Security Assistance Initiative		25,000
Transfer from Counter-ISIS Train and Equip Fund to International Security Cooperation Programs - CENTCOM - Iraq		45,000
Program adjustment - Lift and Sustain Program		-100,000
Program adjustment - Coalition Support Funds		-80,000
4GTI DEFENSE THREAT REDUCTION AGENCY	297,486	297,486
4GTN OFFICE OF THE SECRETARY OF DEFENSE	16,984	16,984
4GTQ WASHINGTON HEADQUARTERS SERVICES	1,997	1,997
999 OTHER PROGRAMS	535,106	535,106
TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE	6,022,254	6,041,898
OPERATION AND MAINTENANCE, ARMY RESERVE		
113 ECHELONS ABOVE BRIGADE	17,193	17,193
121 FORCES READINESS OPERATIONS SUPPORT	440	440
131 BASE OPERATIONS SUPPORT	15,766	15,766
TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE	33,399	33,399
OPERATION AND MAINTENANCE, NAVY RESERVE		
1A3A INTERMEDIATE MAINTENANCE	522	522
1A5A AIRCRAFT DEPOT MAINTENANCE	11,861	11,861
1C6C COMBAT SUPPORT FORCES	9,109	9,109
TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE	21,492	21,492

(179G)

O-1	Budget Request	Final Bill
OPERATION AND MAINTENANCE, MARINE CORPS RESERVE		
1A1A OPERATING FORCES	7,627	7,627
BSS1 BASE OPERATING SUPPORT	1,080	1,080
TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE	8,707	8,707
OPERATION AND MAINTENANCE, AIR FORCE RESERVE		
11M DEPOT MAINTENANCE	24,408	24,408
11Z BASE OPERATING SUPPORT	5,682	5,682
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE	30,090	30,090
OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD		
111 MANEUVER UNITS	25,746	25,746
112 MODULAR SUPPORT BRIGADES	40	40
113 ECHELONS ABOVE BRIGADE	983	983
114 THEATER LEVEL ASSETS	22	22
116 AVIATION ASSETS	20,624	20,624
121 FORCE READINESS OPERATIONS SUPPORT	7,914	7,914
131 BASE OPERATIONS SUPPORT	24,417	24,417
432 SERVICEWIDE COMMUNICATIONS	46	46
TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD	79,792	79,792
OPERATION AND MAINTENANCE, AIR NATIONAL GUARD		
11G MISSION SUPPORT OPERATIONS	3,739	3,739
11M DEPOT MAINTENANCE	61,862	61,862
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	97,108	97,108
11Z BASE SUPPORT	12,933	12,933
TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD	175,642	175,642

(179H)

O-1	Budget Request	Final Bill
AFGHANISTAN SECURITY FORCES FUND		
Afghan National Army	1,235,067	1,235,067
Sustainment	1,065,932	1,065,932
Infrastructure	64,501	64,501
Equipment and Transportation	47,854	47,854
Training and Operations	56,780	56,780
Afghan National Police	602,172	602,172
Sustainment	434,500	434,500
Infrastructure	448	448
Equipment and Transportation	108,231	108,231
Training and Operations	58,993	58,993
Afghan Air Force	835,924	835,924
Sustainment	534,102	534,102
Infrastructure	9,532	9,532
Equipment and Transportation	58,487	58,487
Training and Operations	233,803	233,803
Afghan Special Security Forces	1,342,449	1,342,449
Sustainment	680,024	680,024
Infrastructure	2,532	2,532
Equipment and Transportation	486,808	486,808
Training and Operations	173,085	173,085
Undistributed Reduction		-968,000
TOTAL, AFGHANISTAN SECURITY FORCES FUND	4,015,612	3,047,612
COUNTER-ISIS TRAIN AND EQUIP FUND		
Iraq Train and Equip	645,000	510,000
Program decrease		-90,000
Transfer to International Security Cooperation Programs		-45,000
Syria Train and Equip	200,000	200,000
TOTAL, COUNTER-ISIS TRAIN AND EQUIP FUND	845,000	710,000
TOTAL, OPERATION AND MAINTENANCE	58,179,782	58,832,051

(179 I)

BALTIC SECURITY INITIATIVE

The agreement supports the Baltic states of Estonia, Latvia, and Lithuania through the Baltic Security Initiative. The agreement includes the budget request of \$143,712,500 and an additional \$25,000,000, for a total of \$168,712,500 in International Security Cooperation Programs for the Initiative. The budget request included \$45,000,000 for Baltic air defense programs which shall not be subject to International Security Cooperation Program prior notification requirements. Funds provided above the budget request also shall not be subject to prior notification requirements. The Secretary of Defense shall provide, not later than 90 days after the enactment of this Act, a spend plan for the use of the additional funds. Additionally, not later than 180 days after the enactment of this Act, the Secretary of Defense, in coordination with the Secretary of State, is directed to submit a multi-year strategy and spend plan to the congressional defense committees for the Baltic Security Initiative describing the goals, objectives, and milestones for programs such as air defense, maritime situational awareness, ammunition, special forces, and C4ISR, and the benefits of such programs for deterrence. The strategy shall also include information on the capabilities of each country and their financial contributions towards their own security, the NATO alliance, and programs supported by the Initiative.

EFFORTS TO MINIMIZE CIVILIAN CASUALTIES

The agreement supports efforts by the Department of Defense to minimize civilian casualties and fully funds the request for resources to improve tracking of civilian casualties.

EX GRATIA PAYMENTS

The agreement includes sufficient funding for the Office of the Secretary of Defense under the Operation and Maintenance, Defense-Wide appropriation, 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).

AFGHANISTAN SECURITY FORCES FUND

The agreement does not include funding for major capital projects, major upgrades, or the procurement of new systems, including the request for ten CH-47 helicopters.

The Secretary of Defense is directed to continue to provide budget justification materials that include the budget request amount, the appropriated amount, and the obligation amount by line item, for the prior two fiscal years. In addition, concurrent with the submission of each financial activity plan (FAP), the Secretary of Defense shall provide the congressional defense committees with line item detail of planned funding movements within each sub-activity group using line item titles from the appropriate year's budget justification submission. Any line item that did not appear in the budget justification submission shall be delineated as a new line item in the line item detail accompanying the FAP.

COUNTER-ISIS TRAIN AND EQUIP FUND

The agreement continues support under this heading for the Iraqi Security Forces, Kurdish Peshmerga, and the Syrian Democratic Forces to participate in activities to counter ISIS and associated groups. This includes stipend support to the Ministry of Peshmerga Affairs, if necessary, to ensure the Peshmerga's continued ability to conduct

operations against ISIS. The agreement also continues the requirement that the Secretary of Defense ensure elements are appropriately vetted and receiving commitments from them to promote respect for human rights and the rule of law.

No funds were requested for the Badr Organization or for the Iraqi Popular Mobilization Forces and none are provided by this Act.

ENHANCED BORDER SECURITY FUNDING

The agreement continues to provide funding to reimburse partner nations for expenses incurred to enhance border security. Changes made to the Act to combine border security funding sources are intended to simplify Department of Defense accounting and streamline congressional oversight, thereby ensuring full visibility into the funding requirements of recipient countries. The agreement includes \$250,000,000 for border security reimbursements. This is in addition to fiscal year 2020 funds that remain in the Counter-ISIS Train and Equip Fund that can be used for border security reimbursements in fiscal year 2021. The agreement encourages the Secretary of Defense to submit future budget requests in amounts that ensure that the reimbursements needs of all recipient countries are fully met.

JORDAN

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

PROCUREMENT

The agreement provides \$6,370,713,000 for Procurement, as follows:

~~(INSERT PROCUREMENT OCO TABLE)~~ e

Insert 183A-I

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
AIRCRAFT PROCUREMENT, ARMY		
2 MQ-1 UAV Program increase - additional aircraft	0	110,000 110,000
9 AH-64 APACHE BLOCK IIIB NEW BUILD	69,154	69,154
14 CH-47	50,472	50,472
17 MQ-1 PAYLOAD Justification does not match need	5,968	0 -5,968
20 MULTI SENSOR ABN RECON	122,520	122,520
26 EMARSS SEMA MODS	26,460	26,460
30 DEGRADED VISUAL ENVIRONMENT	1,916	1,916
33 RQ-7 UAV MODS Program increase	0	30,000 30,000
37 CMWS	149,162	149,162
38 COMMON INFRARED COUNTERMEASURES (CIRCM)	32,400	32,400
41 AIRCREW INTEGRATED SYSTEMS	3,028	3,028
TOTAL, AIRCRAFT PROCUREMENT, ARMY	461,080	595,112
MISSILE PROCUREMENT, ARMY		
2 M-SHORAD	158,300	158,300
3 MSE MISSILE	176,585	176,585
6 HELLFIRE SYSTEM SUMMARY	236,265	236,265
11 GUIDED MLRS ROCKET (GMLRS)	127,015	127,015
15 LETHAL MINIATURE AERIAL MISSILE SYSTEM Acquisition strategy	84,993	0 -84,993
17 ATACMS MODS	78,434	78,434
22 MLRS MODS	20,000	20,000
TOTAL, MISSILE PROCUREMENT, ARMY	881,592	796,599

183A

P-1	Budget Request	Final Bill
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY		
16 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYS	4,765	4,765
19 MORTAR SYSTEMS	10,460	10,460
TOTAL, PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY	15,225	15,225
PROCUREMENT OF AMMUNITION, ARMY		
1 CTG, 5.56MM, ALL TYPES	567	567
2 CTG, 7.62MM, ALL TYPES	40	40
4 CTG, HANDGUN, ALL TYPES	17	17
5 CTG, .50 CAL, ALL TYPES	189	189
7 CTG, 30MM, ALL TYPES	24,900	24,900
16 PROJ 155MM EXTENDED RANGE M982 E80103 unit cost savings	29,213	22,420 -6,793
17 ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES	21,675	21,675
20 SHOULDER LAUNCHED MUNITIONS, ALL TYPES	176	176
21 ROCKET, HYDRA 70, ALL TYPES	33,880	33,880
29 ITEMS LESS THAN \$5M (AMMO)	11	11
TOTAL, PROCUREMENT OF AMMUNITION, ARMY	110,668	103,875
OTHER PROCUREMENT, ARMY		
13 FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)	6,500	6,500
14 PLS ESP Anticipated unit cost savings	15,163	13,375 -1,788
17 TACTICAL WHEELED VEHICLE PROTECTION KITS	27,066	27,066
30 TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS Program increase - AFRICOM	2,700	3,700 1,000
32 ASSURED POSITIONING, NAVIGATION AND TIMING	12,566	12,566
33 SMART-T (SPACE)	289	289
34 GLOBAL BROADCAST SERVICE (GBS)	319	319
37 HANDHELD MANPACK SMALL FORM FIT (HMS) Program increase - AFRICOM combat communications	0	1,500 1,500

(183B)

P-1	Budget Request	Final Bill
45 FAMILY OF MED COMM FOR COMBAT CASUALTY CARE	1,257	1,257
48 CI AUTOMATION ARCHITECTURE	1,230	1,230
52 COMMUNICATIONS SECURITY (COMSEC)	128	128
57 BASE SUPPORT COMMUNICATIONS Program increase - AFRICOM long haul communications	0	1,000 1,000
58 INFORMATION SYSTEMS	15,277	15,277
62 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	74,004	74,004
68 DCGS-A	47,709	47,709
70 TROJAN	1,766	1,766
71 MOD OF IN-SVC EQUIPMENT (INTEL SUPPORT)	61,450	61,450
73 BIOMETRIC TACTICAL COLLECTION DEVICES	12,337	12,337
80 FAMILY OF PERSISTENT SURVEILLANCE CAP Unjustified baseline avionics kit cost growth	44,293	42,043 -2,250
81 COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES Reduce prior year carryover	49,100	40,913 -8,187
83 SENTINEL MODS	33,496	33,496
84 NIGHT VISION DEVICES	643	643
87 RADIATION MONITORING SYSTEMS Excess to need	11	0 -11
88 INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS Program increase - AFRICOM	37,000	41,000 4,000
94 COMPUTER BALLISTICS: LHMBC XM32	280	280
95 MORTAR FIRE CONTROL SYSTEM	13,672	13,672
100 AIR AND MSL DEFENSE PLANNING & CONTROL SYS	15,143	15,143
109 ARMY TRAINING MODERNIZATION	4,688	4,688
110 AUTOMATED DATA PROCESSING EQUIPMENT	16,552	16,552
121 FAMILY OF NON-LETHAL EQUIPMENT (FNLE)	25,480	25,480
122 BASE DEFENSE SYSTEMS (BDS)	98,960	98,960
123 CBRN DEFENSE	18,887	18,887
125 TACTICAL BRIDGING	50,400	50,400

1830

P-1	Budget Request	Final Bill
137 RENDER SAFE SETS KITS OUTFITS Unit cost discrepancies	84,000	80,730 -3,270
140 HEATERS AND ECUS	370	370
142 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)	3,721	3,721
145 FORCE PROVIDER	56,400	56,400
146 FIELD FEEDING EQUIPMENT	2,279	2,279
147 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM	2,040	2,040
150 DISTRIBUTION SYSTEMS, PETROLEUM & WATER	4,374	4,374
151 COMBAT SUPPORT MEDICAL	6,390	6,390
152 MOBILE MAINTENANCE EQUIPMENT SYSTEMS	7,769	7,769
153 ITEMS LESS THAN \$5M (MAINT EQ)	184	184
156 LOADERS	3,190	3,190
157 HYDRAULIC EXCAVATOR	7,600	7,600
158 TRACTOR, FULL TRACKED	7,450	7,450
160 HIGH MOBILITY ENGINEER EXCAVATOR (HMEE)	3,703	3,703
162 CONST EQUIP ESP	657	657
167 GENERATORS AND ASSOCIATED EQUIP	106	106
169 FAMILY OF FORKLIFTS	1,885	1,885
180 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT	8,500	8,500
181 PHYSICAL SECURITY SYSTEMS (OPA3) Requirement no longer valid Program increase - AFRICOM force protection upgrades	3,248	12,000 -3,248 12,000
185 BUILDING, PRE-FAB, RELOCATABLE	31,845	31,845
TOTAL, OTHER PROCUREMENT, ARMY	924,077	924,823

(183D)

P-1		Budget Request	Final Bill
AIRCRAFT PROCUREMENT, NAVY			
24	STUASLO UAV	7,921	7,585
	USMC air vehicle unit cost adjustment		-336
53	COMMON ECM EQUIPMENT	3,474	3,474
55	COMMON DEFENSIVE WEAPON SYSTEM	3,339	3,339
64	QRC	18,507	18,507
TOTAL, AIRCRAFT PROCUREMENT, NAVY		33,241	32,905
WEAPONS PROCUREMENT, NAVY			
12	HELLFIRE	5,572	5,572
TOTAL, WEAPONS PROCUREMENT, NAVY		5,572	5,572
PROCUREMENT OF AMMO, NAVY & MARINE CORPS			
1	GENERAL PURPOSE BOMBS	8,068	5,005
	Q2191 BLU-111 previously funded		-2,910
	Q2160 BLU-117 prior year carryover		-153
2	JDAM	15,529	15,529
3	AIRBORNE ROCKETS, ALL TYPES	23,000	10,149
	MK-66 rocket motor contract delays		-12,851
4	MACHINE GUN AMMUNITION	22,600	22,600
6	CARTRIDGES & CART ACTUATED DEVICES	3,927	3,927
7	AIR EXPENDABLE COUNTERMEASURES	15,978	15,978
8	JATOS	2,100	2,100
11	OTHER SHIP GUN AMMUNITION	2,611	7
	M72A8 LAW early to need		-2,604
12	SMALL ARMS & LANDING PARTY AMMO	1,624	1,624
13	PYROTECHNIC AND DEMOLITION	505	505
TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS		95,942	77,424
OTHER PROCUREMENT, NAVY			
28	STANDARD BOATS	19,104	19,104
35	SMALL & MEDIUM UUV	2,946	2,946
43	FIXED SURVEILLANCE SYSTEM	213,000	213,000

(183E)

P-1	Budget Request	Final Bill
92 SONOBUOYS - ALL TYPES	26,196	26,196
95 AIRCRAFT SUPPORT EQUIPMENT	60,217	60,217
110 EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT	2,124	2,124
115 PASSENGER CARRYING VEHICLES	177	0
Unjustified request		-177
116 GENERAL PURPOSE TRUCKS	416	0
Unjustified request		-416
118 FIRE FIGHTING EQUIPMENT	801	0
Unjustified request		-801
125 FIRST DESTINATION TRANSPORTATION	520	0
Unjustified request		-520
128 TRAINING AND EDUCATION EQUIPMENT	11,500	11,500
130 MEDICAL SUPPORT EQUIPMENT	3,525	3,525
136 PHYSICAL SECURITY EQUIPMENT	3,000	3,000
TOTAL, OTHER PROCUREMENT, NAVY	343,526	341,612
PROCUREMENT, MARINE CORPS		
12 GUIDED MLRS ROCKET (GMLRS)	17,456	17,456
15 MODIFICATION KITS	4,200	4,200
21 INTELLIGENCE SUPPORT EQUIPMENT	10,124	10,124
38 MOTOR TRANSPORT MODIFICATIONS	16,183	16,183
TOTAL, PROCUREMENT, MARINE CORPS	47,963	47,963
AIRCRAFT PROCUREMENT, AIR FORCE		
13 COMBAT RESCUE HELICOPTER	174,000	174,000
20 MQ-9	142,490	343,600
Program increase - 16 aircraft		285,700
Production line shutdown ahead of need		-75,990
ECP excess to need		-8,600
21 RQ-20 PUMA	13,770	13,770
26 LAIRCM	57,521	46,321
C-130J carryover		-11,200
46 U-2 MODS	9,600	9,600

(183 F)

P-1		Budget Request	Final Bill
55	COMPASS CALL CLEAVER installations ahead of need	12,800	11,300 -1,500
66	HC/MC-130 MODIFICATIONS Situational awareness unit cost growth	58,020	55,793 -2,227
69	MQ-9 UAS PAYLOADS Program increase - Gorgon Stare operational loss	46,100	63,500 17,400
70	CV-22 MODS	6,290	6,290
71	INITIAL SPARES/REPAIR PARTS	10,700	10,700
72	MQ-9	12,250	12,250
73	AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT	25,614	25,614
TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE		569,155	772,738
MISSILE PROCUREMENT, AIR FORCE			
4	JASSM	30,000	30,000
8	HELLFIRE	143,420	143,420
9	SMALL DIAMETER BOMB	50,352	50,352
TOTAL, MISSILE PROCUREMENT, AIR FORCE		223,772	223,772
PROCUREMENT OF AMMUNITION, AIR FORCE			
1	ROCKETS	19,489	19,489
2	CARTRIDGES	40,434	40,434
4	GENERAL PURPOSE BOMBS	369,566	369,566
6	JOINT DIRECT ATTACK MUNITION	237,723	237,723
15	FLARES	21,171	21,171
16	FUZES FMU-139D/B excess	107,855	91,017 -16,838
17	SMALL ARMS	6,217	6,217
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE		802,455	785,617
OTHER PROCUREMENT, AIR FORCE			
1	PASSENGER CARRYING VEHICLES	1,302	1,302
2	MEDIUM TACTICAL VEHICLE	3,400	3,400
4	CARGO AND UTILITY VEHICLES	12,475	12,475

1836

P-1	Budget Request	Final Bill
5 JOINT LIGHT TACTICAL VEHICLE	26,150	26,150
7 SPECIAL PURPOSE VEHICLES	51,254	51,254
8 FIRE FIGHTING/CRASH RESCUE VEHICLES	24,903	24,903
9 MATERIALS HANDLING VEHICLES	14,167	14,167
10 RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT	5,759	5,759
11 BASE MAINTENANCE SUPPORT VEHICLES	20,653	20,653
26 GENERAL INFORMATION TECHNOLOGY	5,100	5,100
31 AIR FORCE PHYSICAL SECURITY SYSTEM	56,496	56,496
49 BASE COMM INFRASTRUCTURE	30,717	30,717
55 ENGINEERING AND EOD EQUIPMENT	13,172	13,172
56 MOBILITY EQUIPMENT	33,694	33,694
57 FUEL SUPPORT EQUIPMENT (FSE)	1,777	1,777
58 BASE MAINTENANCE AND SUPPORT EQUIPMENT	31,620	31,620
61 DCGS-AF	18,700	18,700
65 SPARES AND REPAIR PARTS	4,000	4,000
TOTAL, OTHER PROCUREMENT, AIR FORCE	355,339	355,339
PROCUREMENT, DEFENSE-WIDE		
16 DEFENSE INFORMATION SYSTEM NETWORK	6,120	6,120
27 COUNTER IMPROVISED THREAT TECHNOLOGIES	2,540	2,540
999 CLASSIFIED PROGRAMS	3,500	3,500
56 MANNED ISR	5,000	45,120
Program increase - combat loss replacement		40,120
57 MC-12	5,000	5,000
60 UNMANNED ISR	8,207	8,207
62 U-28	0	24,711
Program increase - combat loss replacement		24,711
70 ORDNANCE ITEMS LESS THAN \$5M	105,355	105,355
71 INTELLIGENCE SYSTEMS	16,234	16,234
73 OTHER ITEMS LESS THAN \$5M	984	984

(183 H)

P-1	Budget Request	Final Bill
76 TACTICAL VEHICLES	2,990	2,990
77 WARRIOR SYSTEMS LESS THAN \$5M	32,573	38,873
Program increase - M4 carbine URG-I kits		6,300
78 COMBAT MISSION REQUIREMENTS	10,000	10,000
80 OPERATIONAL ENHANCEMENTS INTELLIGENCE	6,724	6,724
81 OPERATIONAL ENHANCEMENTS	53,264	65,779
Program increase - combat loss replacement		12,515
TOTAL, PROCUREMENT, DEFENSE-WIDE	258,491	342,137
NATIONAL GUARD AND RESERVE EQUIPMENT	0	950,000
TOTAL, PROCUREMENT	5,128,098	6,370,713

183 I

NATIONAL GUARD AND RESERVE EQUIPMENT

The agreement provides \$950,000,000 for National Guard and Reserve Equipment. Of that amount \$285,000,000 is designated for the Army National Guard; \$285,000,000 for the Air National Guard; \$155,000,000 for the Army Reserve; \$52,500,000 for the Navy Reserve; \$17,500,000 for the Marine Corps Reserve; and \$155,000,000 for the Air Force Reserve.

This funding will allow the reserve components to procure high priority equipment that may be used for combat and domestic response missions. Current reserve component equipping levels are among the highest in recent history, and the funding provided by the agreement will help ensure component interoperability and sustained reserve component modernization. The agreement directs 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 the enactment of this Act.

The Secretary of Defense is directed to ensure that the account is executed by the Chiefs of the National Guard and reserve components with priority consideration given to the following items: acoustic hailing devices; counter-UAS systems; crashworthy, ballistically tolerant auxiliary fuel systems; containerized ice making systems; gamma radiation protection; helmet-mounted display system; hypervisor-based cross domain access solution; training systems and simulators; virtual language training systems; cold weather and mountaineering gear and equipment, including small unit support vehicles; MQ-9 deployable launch & recovery element mission support kits; solar mobile power systems; KC-135 aircraft forward area refueling/defueling stations; ALR-69A digital radar warning receivers; AN/PDR-75A radiac sets; modular small arms ranges and range

simulators; radiological screening portals; radiological isotope identification/detection equipment; and detect and avoid systems for MQ-9 aircraft.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The agreement provides \$321,508,000 for Research, Development, Test and Evaluation, as follows:

(INSERT RDTE OCO TABLE)

Insert 186A-B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY		
16 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	2,000	2,000
80 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	500	500
114 INTEGRATED BASE DEFENSE	2,020	2,020
AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -		
131 ENG DEV	27,000	20,000
FG5 excess to need		-7,000
159 COMMON INFRARED COUNTERMEASURES (CIRCM)	2,300	2,300
166 AIRCRAFT SURVIVABILITY DEVELOPMENT	64,625	64,625
183 ELECTRONIC WARFARE DEVELOPMENT	3,900	3,900
198 EXPLOITATION OF FOREIGN ITEMS	1,000	1,000
209 COUNTERINTEL AND HUMAN INTEL MODERNIZATION	4,137	4,137
239 OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	2,300	2,300
248 SECURITY AND INTELLIGENCE ACTIVITIES	23,367	23,367
257 TACTICAL UNMANNED AERIAL VEHICLES	34,100	34,100
258 AIRBORNE RECONNAISSANCE SYSTEMS	15,575	15,575
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY	182,824	175,824
RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY		
39 RETRACT LARCH	36,500	36,500
58 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	14,461	14,461
63 CHALK CORAL	3,000	3,000
71 LAND ATTACK TECHNOLOGY	1,457	1,457
142 SHIP SELF DEFENSE (DETECT & CONTROL)	1,144	1,144
229 USMC INTEL/ELECTRONIC WARFARE SYSTEMS	3,000	3,000
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY	59,562	59,562

(186 A)

R-1	Budget Request	Final Bill
RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE		
185 JOINT COUNTER RCIED ELECTRONIC WARFARE	4,080	4,080
228 INTEL DATA APPLICATIONS	1,224	1,224
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE	5,304	5,304
RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE WIDE		
10 COUNTER IMPROVISED-THREAT ADVANCED STUDIES	3,699	3,699
26 COMBATING TERRORISM TECHNOLOGY SUPPORT	19,288	19,288
28 COUNTER IMPROVISED-THREAT SIMULATION	3,861	3,861
COUNTER IMPROVISED-THREAT DEMONSTRATION, 97 PROTOTYPE DEVELOPMENT, AND TESTING	19,931	19,931
260 OPERATIONAL ENHANCEMENTS	1,186	1,186
261 WARRIOR SYSTEMS	5,796	5,796
263 UNMANNED ISR Excess to need - underexecution	5,000	3,000 -2,000
999 CLASSIFIED PROGRAMS	24,057	24,057
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE WIDE	82,818	80,818
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION	330,508	321,508

(186B)

REVOLVING AND MANAGEMENT FUNDS

The agreement provides \$20,090,000 for Defense Working Capital Funds.

OTHER DEPARTMENT OF DEFENSE PROGRAMS

DEFENSE HEALTH PROGRAM

The agreement provides \$365,098,000 for the Defense Health Program, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

	Budget Request	Final Bill
IN-HOUSE CARE	65,072	65,072
PRIVATE SECTOR CARE	296,828	296,828
CONSOLIDATED HEALTH SUPPORT	3,198	3,198
TOTAL, OPERATION AND MAINTENANCE	365,098	365,098

OFFICE OF THE INSPECTOR GENERAL

The agreement provides \$24,069,000 for the Office of the Inspector General.

GENERAL PROVISIONS – THIS TITLE

The agreement for title IX incorporates general provisions which were not amended. Those general provisions that were addressed in the agreement are as follows:

(TRANSFER OF FUNDS)

The agreement retains a provision which provides for special transfer authority within title IX. The House bill contained a similar provision.

The agreement modifies a provision proposed by the House which provides funds for the Commanders' Emergency Response Program.

The agreement includes a provision proposed by the House regarding use of funds in Afghanistan, Iraq, and Syria.

The agreement retains a provision proposed by the House which provides security assistance to the Government of Jordan.

The agreement does not retain a provision which provides for operation and maintenance readiness funds and transfer authority.

The agreement includes a provision proposed by the House which prohibits certain funds to procure or transfer man-portable air defense systems.

The agreement modifies a provision proposed by the House which provides assistance and sustainment to the military and national security forces of Ukraine.

The agreement includes a provision proposed by the House regarding replacement of funds for Ukraine.

The agreement includes a provision proposed by the House which prohibits the use of funds to provide arms, training, or other assistance to the Azov Battalion.

The agreement retains a provision regarding the acceptance of returned equipment. The House bill contained a similar provision.

The agreement does not retain a provision proposed by the House which restricts funds provided for reimbursement to the Government of Pakistan for border security operations until certain conditions are met.

The agreement retains a provision proposed by the House which prohibits introducing armed forces into Iraq in contravention of the War Powers Act.

The agreement retains a provision proposed by the House which prohibits introducing armed forces into Syria in contravention of the War Powers Act.

The agreement includes a provision proposed by the House which prohibits the transfer of C-130 aircraft to the Afghanistan National Security Forces or the Afghanistan Air Force.

The agreement includes a provision proposed by the House which requires the Secretary of Defense to certify the use of funds in the Afghanistan Security Forces Fund under certain conditions.

The agreement includes a provision proposed by the House which prohibits funds for the Taliban, with certain exceptions.

The agreement retains a provision proposed by the House which states that nothing in the Act may be construed as authorizing the use of force against Iran.

The agreement does not retain a provision proposed by the House which requires the Secretary of Defense to provide a notification when a foreign base is open or closed.

The agreement does not retain a provision proposed by the House which provides funds to the Department of Defense to improve intelligence, surveillance, and reconnaissance capabilities.

(RESCISSIONS)

The agreement modifies a provision proposed by the House recommending rescissions and provides for the rescission of \$1,886,122,000. The rescissions agreed to are:

2019 Appropriations:	
Procurement of Weapons and Tracked Combat Vehicles, Army:	
Bradley program	\$90,000,000
Aircraft Procurement, Air Force:	
B-52 Infrared threat defense urgent operational need..	16,400,000
2020 Appropriations:	
Operation and Maintenance, Defense-Wide:	
DSCA security cooperation	75,000,000
Coalition Support Funds	45,000,000
Afghanistan Security Forces Fund:	
Afghanistan Security Forces Fund.....	1,100,000,000
Counter-ISIS Train and Equip Fund:	
Counter-ISIS Train and Equip Fund.....	400,000,000
Procurement of Weapons and Tracked Combat Vehicles, Army:	
Armored Multi-Purpose Vehicle	100,000,000
Procurement of Ammunition, Air Force:	
Fuzes – FMU-139 D/B.....	49,679,000
Research, Development, Test and Evaluation, Army:	
Soldier support and survivability	2,878,000
Research, Development, Test and Evaluation, Defense-Wide:	
Counter improvised-threat demonstration	
prototype	7,165,000

The agreement modifies a new provision that provides funds for programs for foreign security forces.

The agreement modifies a new provision that provides funds for specialized training and equipment for coalition forces.

The agreement modifies a new provision that provides funds to reimburse Jordan, Lebanon, Egypt, Tunisia, and Oman for enhanced border security.

The agreement retains a provision relating to emergency designations. The House bill did not contain a similar provision.

The agreement does not retain a new provision proposed by the House which repeals the 2001 AUMF.

The agreement does not retain a new provision proposed by the House which repeals the 2002 AUMF.

The agreement does not retain a new provision proposed by the House which prohibits funds for any use of military force in or Iran, with exceptions.

The agreement does not retain a new provision proposed by the House which prohibits funds to support any law enforcement action by a military member or Department of Defense employee unless such individual wears identification.

The agreement includes a new provision proposed by the House which prohibits funds to be used in contravention of the First Amendment.

The agreement does not retain a new provision proposed by the House which prohibits funds to implement Directive-type Memorandum-19-004.

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE I					
MILITARY PERSONNEL					
Military Personnel, Army.....	42,746,972	45,087,813	44,861,853	+2,114,881	-225,960
Military Personnel, Navy.....	31,710,431	33,892,369	33,764,579	+2,054,148	-127,790
Military Personnel, Marine Corps.....	14,098,666	14,840,871	14,557,436	+458,770	-283,435
Military Personnel, Air Force.....	31,239,149	32,901,670	32,784,171	+1,545,022	-117,499
Reserve Personnel, Army.....	4,922,087	5,106,956	5,037,119	+115,032	-69,837
Reserve Personnel, Navy.....	2,115,997	2,240,710	2,200,600	+84,603	-40,110
Reserve Personnel, Marine Corps.....	833,604	868,694	843,564	+9,960	-25,130
Reserve Personnel, Air Force.....	2,014,190	2,207,823	2,193,493	+179,303	-14,330
National Guard Personnel, Army.....	8,704,320	8,830,111	8,663,999	-40,321	-166,112
National Guard Personnel, Air Force.....	4,060,651	4,547,087	4,530,091	+469,440	-16,996
	=====	=====	=====	=====	=====
Total, title I, Military Personnel.....	142,446,067	150,524,104	149,436,905	+6,990,838	-1,087,199
	=====	=====	=====	=====	=====
Total, Tricare Accrual payments (permanent, indefinite authority).....	---	---	---	---	---
Total, including Tricare.....	142,446,067	150,524,104	149,436,905	+6,990,838	-1,087,199
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE II					
OPERATION AND MAINTENANCE					
Operation and Maintenance, Army.....	39,597,083	40,312,968	38,418,982	-1,178,101	-1,893,986
Operation and Maintenance, Navy.....	47,622,510	49,692,742	47,632,527	+10,017	-2,060,215
Operation and Maintenance, Marine Corps.....	7,868,468	7,328,607	7,286,184	-582,284	-42,423
Operation and Maintenance, Air Force.....	42,736,365	34,750,597	33,528,409	-9,207,956	-1,222,188
Operation and Maintenance, Space Force.....	40,000	2,531,294	2,492,114	+2,452,114	-39,180
Operation and Maintenance, Defense-Wide.....	37,491,073	38,649,079	39,048,990	+1,557,917	+399,911
Operation and Maintenance, Army Reserve.....	2,984,494	2,934,717	2,887,898	-96,596	-46,819
Operation and Maintenance, Navy Reserve.....	1,102,616	1,127,046	1,115,150	+12,534	-11,896
Operation and Maintenance, Marine Corps Reserve.....	289,076	284,656	283,494	-5,582	-1,162
Operation and Maintenance, Air Force Reserve.....	3,227,318	3,350,284	3,268,461	+41,143	-81,823
Operation and Maintenance, Army National Guard.....	7,461,947	7,420,014	7,350,837	-111,110	-69,177
Operation and Maintenance, Air National Guard.....	6,655,292	6,753,642	6,785,853	+130,561	+32,211
United States Court of Appeals for the Armed Forces...	14,771	15,211	15,211	+440	---
Environmental Restoration, Army.....	251,700	207,518	264,285	+12,585	+56,767
Environmental Restoration, Navy.....	385,000	335,932	421,250	+36,250	+85,318
Environmental Restoration, Air Force.....	485,000	303,926	509,250	+24,250	+205,324
Environmental Restoration, Defense-Wide.....	19,002	9,105	19,952	+950	+10,847
Environmental Restoration, Formerly Used Defense Sites	275,000	216,567	288,750	+13,750	+72,163

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Overseas Humanitarian, Disaster, and Civic Aid.....	135,000	109,900	147,500	+12,500	+37,600
Cooperative Threat Reduction Account.....	373,700	238,490	360,190	-13,510	+121,700
Department of Defense Acquisition Workforce Development Account.....	400,000	58,181	88,181	-311,819	+30,000
	=====	=====	=====	=====	=====
Total, title II, Operation and Maintenance.....	199,415,415	196,630,496	192,213,468	-7,201,947	-4,417,028
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE III					
PROCUREMENT					
Aircraft Procurement, Army.....	3,771,329	3,074,594	3,457,342	-313,987	+382,748
Missile Procurement, Army.....	2,995,673	3,491,507	3,220,541	+224,868	-270,966
Procurement of Weapons and Tracked Combat Vehicles, Army.....	4,663,597	3,696,740	3,611,887	-1,051,710	-84,853
Procurement of Ammunition, Army.....	2,578,575	2,777,716	2,790,140	+211,565	+12,424
Other Procurement, Army.....	7,581,524	8,625,206	8,603,112	+1,021,588	-22,094
Aircraft Procurement, Navy.....	19,605,513	17,127,378	19,480,280	-125,233	+2,352,902
Weapons Procurement, Navy.....	4,017,470	4,884,995	4,477,773	+460,303	-407,222
Procurement of Ammunition, Navy and Marine Corps.....	843,401	883,602	792,023	-51,378	-91,579
Shipbuilding and Conversion, Navy.....	23,975,378	19,902,757	23,268,880	-706,498	+3,366,123
Other Procurement, Navy.....	10,075,257	10,948,518	10,512,209	+436,952	-436,309
Procurement, Marine Corps.....	2,898,422	2,903,976	2,648,375	-250,047	-255,601
Aircraft Procurement, Air Force.....	17,512,361	17,908,145	19,212,753	+1,700,392	+1,304,608
Missile Procurement, Air Force.....	2,575,890	2,396,417	2,142,181	-433,709	-254,236
Space Procurement, Air Force.....	2,353,383	---	---	-2,353,383	---
Procurement of Ammunition, Air Force.....	1,625,661	596,338	550,844	-1,074,817	-45,494
Other Procurement, Air Force.....	21,410,021	23,695,720	23,441,648	+2,031,627	-254,072
Procurement, Space Force.....	---	2,446,064	2,310,994	+2,310,994	-135,070
Procurement, Defense-Wide.....	5,332,147	5,324,487	5,837,347	+505,200	+512,860
Defense Production Act Purchases.....	64,393	181,931	174,639	+110,246	-7,292
	=====	=====	=====	=====	=====
Total, title III, Procurement.....	133,879,995	130,866,091	136,532,968	+2,652,973	+5,666,877
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE IV					
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Army.....	12,543,435	12,587,343	13,969,032	+1,425,597	+1,381,689
Research, Development, Test and Evaluation, Navy.....	20,155,115	21,427,048	20,078,829	-76,286	-1,348,219
Research, Development, Test and Evaluation, Air Force.....	45,566,955	37,391,826	36,357,443	-9,209,512	-1,034,383
Research, Development, Test and Evaluation, Space Force.....	---	10,327,595	10,540,069	+10,540,069	+212,474
Research, Development, Test and Evaluation, Defense-Wide.....	25,938,027	24,280,891	25,932,671	-5,356	+1,651,780
Operational Test and Evaluation, Defense.....	227,700	210,090	257,120	+29,420	+47,030
	=====	=====	=====	=====	=====
Total, title IV, Research, Development, Test and Evaluation.....	104,431,232	106,224,793	107,135,164	+2,703,932	+910,371
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE V					
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds.....	1,564,211	1,348,910	1,473,910	-90,301	+125,000
	=====	=====	=====	=====	=====
Total, title V, Revolving and Management Funds..	1,564,211	1,348,910	1,473,910	-90,301	+125,000
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE VI					
OTHER DEPARTMENT OF DEFENSE PROGRAMS					
Defense Health Program					
Operation and maintenance.....	31,321,665	31,349,553	30,747,659	-574,006	-601,894
Procurement.....	446,359	617,926	544,369	+98,010	-73,557
Research, development, test and evaluation.....	2,306,095	722,893	2,392,579	+86,484	+1,669,686
Total, Defense Health Program 1/.....	34,074,119	32,690,372	33,684,607	-389,512	+994,235
Chemical Agents and Munitions Destruction, Defense:					
Operation and maintenance.....	107,351	106,691	106,691	-660	---
Procurement.....	2,218	616	616	-1,602	---
Research, development, test and evaluation.....	875,930	782,193	942,493	+66,563	+160,300
Total, Chemical Agents 2/.....	985,499	889,500	1,049,800	+64,301	+160,300
Drug Interdiction and Counter-Drug Activities,					
Defense 1/.....	893,059	769,629	914,429	+21,370	+144,800
Office of the Inspector General 1/.....	363,499	371,439	375,439	+11,940	+4,000
Total, title VI, Other Department of Defense Programs.....	36,316,176	34,720,940	36,024,275	-291,901	+1,303,335
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE VII					
RELATED AGENCIES					
Central Intelligence Agency Retirement and Disability System Fund.....	514,000	514,000	514,000	---	---
Intelligence Community Management Account (ICMA).....	556,000	663,000	633,719	+77,719	-29,281
	=====	=====	=====	=====	=====
Total, title VII, Related agencies.....	1,070,000	1,177,000	1,147,719	+77,719	-29,281
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE VIII					
GENERAL PROVISIONS					
Additional transfer authority (Sec. 8005).....	(4,000,000)	(5,000,000)	(4,000,000)	---	(-1,000,000)
Indian Financing Act incentives (Sec.8021).....	---	---	25,000	+25,000	+25,000
Rescissions (Sec. 8043).....	-4,090,652	---	-3,248,047	+842,605	-3,248,047
National grants (Sec. 8050).....	44,000	---	49,000	+5,000	+49,000
O&M, Defense-wide transfer authority (Sec.8054).....	(30,000)	(30,000)	(30,000)	---	---
Fisher House Foundation (Sec.8068).....	10,000	---	10,000	---	+10,000
John C. Stennis Center for Public Service Development (Sec.8069).....	---	---	(1,000)	(+1,000)	(+1,000)
Trust Fund (O&M, Navy transfer authority).....	(1,000)	---	---	(-1,000)	---
Fisher House O&M Army Navy Air Force transfer authority (Sec.8091).....	(11,000)	(11,000)	(11,000)	---	---
Defense Health O&M transfer authority (Sec. 8095).....	(127,000)	(137,000)	(137,000)	(+10,000)	---
Public Schools on Military Installations (Sec. 8118).....	315,000	---	284,000	-31,000	+284,000
Foreign Currency Fluctuations (Sec. 8129).....	---	---	-375,000	-375,000	-375,000
Revised fuel costs (Sec. 8130).....	---	---	-1,700,362	-1,700,362	-1,700,362
Revised economic assumptions.....	-81,559	---	---	+81,559	---
Property Services.....	---	25,000	---	---	-25,000

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

Defense Industrial Base and Supply Chain Resiliency (Sec. 8132).....	---	---	100,000	+100,000	+100,000
Military Museum.....	---	1,000	---	---	-1,000
Readiness (Sec. 8133).....	---	---	300,500	+300,500	+300,500
	=====	=====	=====	=====	=====
Total, title VIII, General Provisions.....	-3,803,211	26,000	-4,554,909	-751,698	-4,580,909
	=====	=====	=====	=====	=====

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE IX					
OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON TERRORISM (GWOT)					
Military Personnel					
Military Personnel, Army (GWOT)	2,743,132	2,748,033	2,748,033	+4,901	---
Military Personnel, Navy (GWOT)	356,392	382,286	382,286	+25,894	---
Military Personnel, Marine Corps (GWOT)	104,213	129,943	129,943	+25,730	---
Military Personnel, Air Force (GWOT)	1,007,594	1,077,168	1,077,168	+69,574	---
Reserve Personnel, Army (GWOT)	34,812	33,414	33,414	-1,398	---
Reserve Personnel, Navy (GWOT)	11,370	11,771	11,771	+401	---
Reserve Personnel, Marine Corps (GWOT)	3,599	2,048	2,048	-1,551	---
Reserve Personnel, Air Force (GWOT)	16,428	16,816	16,816	+388	---
National Guard Personnel, Army (GWOT)	202,644	195,314	195,314	-7,330	---
National Guard Personnel, Air Force (GWOT)	5,624	5,800	5,800	+176	---

Total, Military Personnel	4,485,808	4,602,593	4,602,593	+116,785	---
Operation and Maintenance					
Operation & Maintenance, Army (GWOT)	20,092,038	17,137,754	17,497,254	-2,594,784	+359,500
Operation & Maintenance, Navy (GWOT)	8,772,379	10,700,305	11,568,363	+2,795,984	+868,058
Operation & Maintenance, Marine Corps (GWOT)	1,109,791	1,102,600	1,108,667	-1,124	+6,067
Operation & Maintenance, Air Force (GWOT)	10,359,379	17,930,020	18,432,020	+8,072,641	+502,000
Operation & Maintenance, Space Force (GWOT)	---	77,115	77,115	+77,115	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Operation & Maintenance, Defense-Wide (GWOT)	7,803,193	6,022,254	6,041,898	-1,761,295	+19,644
(Coalition support funds) (GWOT)	(225,000)	---	---	(-225,000)	---
Operation & Maintenance, Army Reserve (GWOT)	37,592	33,399	33,399	-4,193	---
Operation & Maintenance, Navy Reserve (GWOT)	23,036	21,492	21,492	-1,544	---
Operation & Maintenance, Marine Corps Reserve (GWOT) ..	8,707	8,707	8,707	---	---
Operation & Maintenance, Air Force Reserve (GWOT)	29,758	30,090	30,090	+332	---
Operation & Maintenance, Army National Guard (GWOT)	83,291	79,792	79,792	-3,499	---
Operation & Maintenance, Air National Guard (GWOT)	176,909	175,642	175,642	-1,267	---
Subtotal	48,496,073	53,319,170	55,074,439	+6,578,366	+1,755,269
Afghanistan Security Forces Fund (GWOT)	4,199,978	4,015,612	3,047,612	-1,152,366	-968,000
Counter-ISIS Train and Equip Fund (GWOT)	1,195,000	845,000	710,000	-485,000	-135,000
Total, Operation and Maintenance	53,891,051	58,179,782	58,832,051	+4,941,000	+652,269
Procurement					
Aircraft Procurement, Army (GWOT)	531,541	461,080	595,112	+63,571	+134,032
Missile Procurement, Army (GWOT)	1,423,589	881,592	796,599	-626,990	-84,993
Procurement of Weapons and Tracked Combat Vehicles, Army (GWOT)	346,306	15,225	15,225	-331,081	---
Procurement of Ammunition, Army (GWOT)	148,682	110,668	103,875	-44,807	-6,793
Other Procurement, Army (GWOT)	1,080,504	924,077	924,823	-155,681	+746
Aircraft Procurement, Navy (GWOT)	95,153	33,241	32,905	-62,248	-336
Weapons Procurement, Navy (GWOT)	116,429	5,572	5,572	-110,857	---
Procurement of Ammunition, Navy and Marine Corps (GWOT)	204,814	95,942	77,424	-127,390	-18,518

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Other Procurement, Navy (GWOT)	351,250	343,526	341,612	-9,638	-1,914
Procurement, Marine Corps (GWOT).....	20,589	47,963	47,963	+27,374	---
Aircraft Procurement, Air Force (GWOT).....	851,310	569,155	772,738	-78,572	+203,583
Missile Procurement, Air Force (GWOT).....	201,671	223,772	223,772	+22,101	---
Procurement of Ammunition, Air Force (GWOT).....	934,758	802,455	785,617	-149,141	-16,838
Other Procurement, Air Force (GWOT).....	3,748,801	355,339	355,339	-3,393,462	---
Procurement, Defense-Wide (GWOT).....	438,064	258,491	342,137	-95,927	+83,646
National Guard and Reserve Equipment (GWOT)	1,300,000	---	950,000	-350,000	+950,000
Total, Procurement.....	11,793,461	5,128,098	6,370,713	-5,422,748	+1,242,615
Research, Development, Test and Evaluation					
Research, Development, Test & Evaluation, Army (GWOT).....	147,304	182,824	175,824	+28,520	-7,000
Research, Development, Test & Evaluation, Navy (GWOT).....	164,410	59,562	59,562	-104,848	---
Research, Development, Test & Evaluation, Air Force (GWOT).....	128,248	5,304	5,304	-122,944	---
Research, Development, Test and Evaluation, Defense-Wide (GWOT).....	394,260	82,818	80,818	-313,442	-2,000
Total, Research, Development, Test and Evaluation.....	834,222	330,508	321,508	-512,714	-9,000

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Revolving and Management Funds					
Defense Working Capital Funds (GWOT).....	20,100	20,090	20,090	-10	---
Other Department of Defense Programs					
Defense Health Program:					
Operation & Maintenance (GWOT).....	347,746	365,098	365,098	+17,352	---
Drug Interdiction and Counter-Drug Activities, Defense (GWOT).....	153,100	---	---	-153,100	---
Office of the Inspector General (GWOT).....	24,254	24,069	24,069	-185	---
Total, Other Department of Defense Programs.....	525,100	389,167	389,167	-135,933	---
GENERAL PROVISIONS -- THIS TITLE					
Additional transfer authority (GWOT) (Sec.9002).....	(2,000,000)	(4,500,000)	(2,000,000)	---	(-2,500,000)
Intelligence, Surveillance, and Reconnaissance (GWOT).	250,000	---	---	-250,000	---
Rescissions (GWOT) (Sec.9023).....	-1,134,742	---	-1,886,122	-751,380	-1,886,122
Total, General Provisions.....	-884,742	---	-1,886,122	-1,001,380	-1,886,122
Total, title IX (OCO/GWOT).....	70,665,000	68,650,238	68,650,000	-2,015,000	-238

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE X					
NATURAL DISASTER RELIEF					
Operation and Maintenance					
Operation and Maintenance, Navy (emergency).....	427,000	---	---	-427,000	---
Operation and Maintenance, Marine Corps (emergency)...	394,000	---	---	-394,000	---
Operation and Maintenance, Air Force (emergency).....	110,000	---	---	-110,000	---
Operation and Maintenance, Army National Guard (emergency).....	45,700	---	---	-45,700	---
Total, Operation and Maintenance.....	976,700	---	---	-976,700	---

Procurement					
Other Procurement, Navy (emergency).....	75,015	---	---	-75,015	---
Procurement, Marine Corps (emergency).....	73,323	---	---	-73,323	---
Aircraft Procurement, Air Force (emergency).....	204,448	---	---	-204,448	---
Other Procurement, Air Force (emergency).....	77,974	---	---	-77,974	---
Total, Procurement.....	430,760	---	---	-430,760	---

Research, Development, Test and Evaluation					
Research, Development, Test and Evaluation, Navy (emergency).....	130,444	---	---	-130,444	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

Revolving and Management Funds					
Defense Working Capital Funds (emergency).....	233,500	---	---	-233,500	---
	=====	=====	=====	=====	=====
Total, title X.....	1,771,404	---	---	-1,771,404	---
	=====	=====	=====	=====	=====
Grand total.....	687,756,289	690,168,572	688,059,500	+303,211	-2,109,072
Appropriations.....	(619,410,537)	(621,518,334)	(622,657,547)	(+3,247,010)	(+1,139,213)
Emergency appropriations.....	(1,771,404)	---	---	(-1,771,404)	---
Global War on Terrorism (GWOT).....	(71,799,742)	(68,650,238)	(70,536,122)	(-1,263,620)	(+1,885,884)
Rescissions.....	(-4,090,652)	---	(-3,248,047)	(+842,605)	(-3,248,047)
Rescissions (GWOT).....	(-1,134,742)	---	(-1,886,122)	(-751,380)	(-1,886,122)
(Transfer Authority).....	(4,169,000)	(5,178,000)	(4,179,000)	(+10,000)	(-999,000)
(Transfer Authority) (GWOT).....	(2,000,000)	(4,500,000)	(2,000,000)	---	(-2,500,000)

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2021

(Amounts in thousands)

	FY 2020 Enacted	FY 2021 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

RECAPITULATION					
Title I - Military Personnel.....	142,446,067	150,524,104	149,436,905	+6,990,838	-1,087,199
Title II - Operation and Maintenance.....	199,415,415	196,630,496	192,213,468	-7,201,947	-4,417,028
Title III - Procurement.....	133,879,995	130,866,091	136,532,968	+2,652,973	+5,666,877
Title IV - Research, Development, Test and Evaluation.....	104,431,232	106,224,793	107,135,164	+2,703,932	+910,371
Title V - Revolving and Management Funds.....	1,564,211	1,348,910	1,473,910	-90,301	+125,000
Title VI - Other Department of Defense Programs.....	36,316,176	34,720,940	36,024,275	-291,901	+1,303,335
Title VII - Related Agencies.....	1,070,000	1,177,000	1,147,719	+77,719	-29,281
Title VIII - General Provisions.....	-3,803,211	26,000	-4,554,909	-751,698	-4,580,909
Title IX - Global War on Terrorism (GWOT).....	70,665,000	68,650,238	68,650,000	-2,015,000	-238

Total, Department of Defense.....	687,756,289	690,168,572	688,059,500	+303,211	-2,109,072

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