

XEROX

DIVISION C - DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

The following is an explanation of the effects of this Act, which makes appropriations for the Department of Defense for fiscal year 2022. The joint explanatory statement accompanying this division is approved and indicates congressional intent. Unless otherwise noted, the language set forth in House Report 117-88 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, 2022, 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 2023, the Secretary of Defense is directed to transmit to the congressional defense committees

budget justification documents to be known as the “M-1” and 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 2023.

REPROGRAMMING GUIDANCE

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

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

COMMUNITY PROJECT FUNDING

The agreement directs the Secretary of Defense to ensure that all Community Project Funding is awarded to its intended recipients.

COMPETITION FOR CONGRESSIONAL INCREASES

Funding increases outlined in the tables for each appropriation account shall be provided only for the specific purposes indicated in the tables titled Explanation of Project Level Adjustments. Except for projects contained in the table titled Community Project Funding Items, funding increases shall be competitively awarded, or provided to programs that have received competitive awards in the past.

CONGRESSIONAL SPECIAL INTEREST ITEMS

Items for which additional funds have been 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.

DESIGNATED CONGRESSIONAL SPECIAL INTEREST ITEMS

In the explanatory statement accompanying the Department of Defense Appropriations Act, 2021, the Secretary of Defense was directed to limit Department of Defense overhead costs on all congressional program increases. The Army developed a system for tracking overhead costs on congressional program increases, and the agreement notes that all of the Services and defense agencies should similarly track these costs to ensure that the overwhelming amount of each congressional program increase is used to further the intended program and not simply supplement or supplant established overhead budgets.

The agreement again directs the Secretary of Defense to limit Department overhead and operating costs on congressional program increases to not more than ten percent of the funding level provided. The Service Secretaries and the Deputy Secretary of Defense or their designee may request a waiver to this requirement by submitting a prior approval request in writing to the House and Senate Appropriations Committees.

CONGRESSIONAL INITIATIVES

It is noted that progress has been made in recent years in aligning resources to military requirements as a result of the 2018 National Defense Strategy and that the fiscal year 2022 President's budget request presented to Congress continues these important efforts by increasing the adoption of advanced technologies. The congressional defense committees' oversight efforts discovered numerous opportunities to accelerate the pace of change, especially with respect to security and deterrence in the Indo-Pacific region, space and cyber capabilities, artificial intelligence, and infrastructure and public shipyard improvements. Therefore, the agreement includes significant additional appropriations for these four areas. The agreement also includes increases to select high-priority items identified on the unfunded priority lists of the service chiefs and combatant commands

that address capability gaps in the areas listed above. Further, the agreement includes additional funding for certain issues which the Department of Defense is not well positioned to address without additional appropriations, such as funding to address per- and polyfluoroalkyl substances (PFAS) pollution related to military installations. These funds are intended to accelerate efforts beyond assessments of PFAS contamination, to the remediation of hazards. Finally, the agreement includes \$125,000,000 for the National Defense Stockpile Transaction Fund to improve American supply chain resilience related to strategic materials.

The Secretary of Defense is directed to provide an execution plan to the congressional defense committees for these priority initiatives, as well as other increases which improve the readiness and capabilities of the Armed Forces, not later than 60 days after the enactment of this Act.

DEPARTMENT OF DEFENSE TEST INFRASTRUCTURE INVESTMENTS

It is noted that recent investments in next-generation weapons such hypersonics, directed energy, and space technologies have not been accompanied by investments in the associated test infrastructure to demonstrate these capabilities under operationally relevant conditions against realistic threats. Therefore, the agreement includes additional appropriations of \$422,728,000, as detailed in the tables of Explanation of Project Level Adjustments under the headings for Research, Development, Test and Evaluation, Navy; Research, Development, Test and Evaluation, Defense-Wide; and Operational Test and Evaluation, Defense, only for lab and test range upgrades for the following: Space, electromagnetic spectrum, hypersonics, directed energy, and targets. Further, there is an opportunity to accelerate infrastructure improvements at the Nevada Test and Training Range, Point Mugu Sea Range, China Lake, and Joint Pacific Alaska Range Complex to provide peer-representative threat environments for 5th generation aircraft. Therefore,

the agreement includes additional appropriations of \$375,400,000, as detailed in the tables of Explanation of Project Level Adjustments under the headings for Research, Development, Test and Evaluation, Defense-Wide, only for the acquisition or modification of radar emulators and decoy systems.

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

APPROPRIATIONS FOR DEPARTMENT OF DEFENSE-IDENTIFIED UNFUNDED REQUIREMENTS

In accordance with 10 U.S.C. 222(a), the military Services and combatant commands submitted to the congressional defense committees unfunded mission requirements in excess of \$19,000,000,000 with submission of the fiscal year 2022 President's budget request. As in previous years, these requests, their underlying requirements, costs, and schedules have been reviewed, and additional appropriations are recommended in fiscal year 2022 to address these shortfalls, as identified in the tables of Explanation of Project Level Adjustments in this joint explanatory statement.

As previously stated, there are concerns about instances where appropriations for unfunded requirements remained unobligated until proposed for realignment. While it is understandable that requirements evolve and associated funding requirements change during execution of the budget, such unexecuted appropriations suggest that additional

details regarding the execution of appropriations provided specifically for unfunded requirements identified by the Department of Defense is warranted.

Therefore, direction included in the joint explanatory statement accompanying the Department of Defense Appropriations Act, 2021 is reiterated. In addition, it is directed that any submission of unfunded requirements by the military services, defense agencies, and combatant commands with the fiscal year 2023 President's budget request be accompanied by updated requirements, and programmatic and execution plans for unfunded requirements that received appropriations in fiscal year 2022. Further, the Assistant Secretaries (Financial Management and Comptroller) for the Air Force, Navy, and Army are directed to incorporate in the congressional budget brief templates distinct programmatic and execution data for appropriations provided in the previous three fiscal years for unfunded requirements pertaining to the program/effort.

CLASSIFIED ANNEX

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

NEW BUDGET EXHIBIT CAPTURING SAVINGS FROM PROPOSED FORCE STRUCTURE CHANGES

The Assistant Secretaries (Financial Management and Comptroller) for the Army, Navy, and Air Force are directed to submit a budget exhibit that will display the savings built into the budget for force structure retirements and divestitures to be submitted with each President's budget request. The agreement directs that all Service components (active, reserve and Guard) be engaged in the formulation of the budget exhibit in order to fully align all savings proposals by appropriation. This new exhibit shall be included in the justification materials with the fiscal year 2023 President's budget request and shall include, but not be limited to, the following information (columns in the display):

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

QUARTERLY REPORTS ON DEPLOYMENTS OF UNITED STATES ARMED FORCES

The Secretary of Defense shall provide quarterly reports to the congressional defense committees on the deployment of United States Armed Forces by each

geographic combatant command, including the number of members of the Armed Forces, civilian employees of the Department of Defense, and contract personnel, as well as the country and named operation, if applicable, to which such personnel are assigned.

FOREIGN BASE NOTIFICATION

Not later than 15 days after the date on which any foreign base that involves the stationing or operations of the United States Armed Forces, 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 of the opening or closing of such base. Such notification shall also include information on any personnel changes, costs, and savings associated with the opening or closing of such base.

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE

The agreement ensures that the Department of Defense acquisition workforce has the capacity, in both personnel and skills, needed to properly perform its mission and provides funding, as requested, in the Services' operation and maintenance and research, development, test and evaluation accounts; as well as in the Department of Defense Acquisition Workforce Account and Defense Working Capital Funds. With the submission of the fiscal year 2023 President's budget request, the Service Acquisition Executives of the Army, Navy, Air Force, and Space Force are directed to provide a report to the congressional defense committees identifying their acquisition workforce requirements in support of the acquisition programs included in the fiscal year 2023 future years defense program. Further, the Military Department Financial Managers and Comptrollers of the Army, Navy, and Air Force are directed to certify, with submission of the fiscal year 2023 President's budget request, to the congressional defense

committees, that these acquisition workforce requirements are fully funded in the fiscal year 2023 President's budget request. Finally, in order to maintain visibility into and oversight of funding for the defense acquisition workforce, these funds are designated as congressional special interest items for the purpose of the Base for Reprogramming, DD Form 1414.

INTEGRATED VISUAL AUGMENTATION SYSTEM

The agreement supports the continued development and operational test of the Army's Integrated Visual Augmentation System (IVAS). In light of recent developmental challenges and increased testing requirements, the agreement recommends a transfer of \$55,000,000 from the Other Procurement, Army account to the Research, Development, Test and Evaluation, Army account for continued design, development, and testing activities. The agreement also provides a total of \$405,140,000 to maintain contractual production requirements. The Program Executive Officer, Soldier (PEO Soldier), not later than 30 days after the enactment of this Act, is directed to submit a revised IVAS development plan, including the associated resourcing requirements, to the House and Senate Appropriations Committees. Further, the agreement places fiscal year 2022 IVAS procurement funding in the amount of \$349,543,000 on hold until the program completes initial operational test and evaluation and PEO Soldier provides a briefing to the House and Senate Appropriations Committees.

BUDGETING FOR NAVY MODERNIZATION

It is noted that in the fiscal year 2022 budget request, the Navy proposed to break the multi-year procurement contract (MYP) for the DDG-51 Destroyer, while simultaneously requesting that Congress appropriate the necessary additional funds for that Destroyer in the amount of \$1,659,200,000 by listing it as its top unfunded priority.

It is further noted that this five-year MYP was authorized by the congressional defense committees in fiscal year 2018 at the request of the Navy, as certified by the Under Secretary of Defense for Acquisition and Sustainment, and with cost estimates provided by the Director of Cost Assessment and Program Evaluation (CAPE). Failure to fully budget for this MYP, therefore, implies a lack of understanding of the full five-year funding requirements, and creates an unnecessary risk to the predictable and stable funding required for this MYP.

It is concerning that this continues a trend by the Navy to submit budgets to the Congress that deliberately underfund programs deemed by the Navy to be critical, with the expectation that the congressional appropriations committees will restore funds for these programs within the budget allocation for the Department of Defense. For instance, in fiscal year 2021, the Navy's budget request underfunded the MYP for the VIRGINIA Class submarine that had been authorized by the Congress in fiscal year 2018, requiring the congressional appropriations committees to provide approximately \$2,600,000,000 in additional funds for this MYP. As a result of these repeated budgetary maneuvers, it is questionable whether the Navy's budget requests accurately reflect the Service's most important priorities. This is particularly concerning given the Navy's plans to initiate and ramp up several major acquisition programs in the near-term, including the COLUMBIA Class submarine, the Next Generation Air Dominance Family of Systems, the DDG(X) Destroyer, FFG, and SSN(X). At the same time, the Navy is struggling to manage cost on several major acquisition programs, including the COLUMBIA Class submarine, certain subsea and seabed warfare programs, and the TAO fleet oiler, revealing significant cost increases for each of these programs in the fiscal year 2022 budget submission.

The Comptroller General is directed to review the Department of the Navy's and the CAPE's processes for identifying and budgeting funds required to fully fund MYPs

during the Department's programming, planning, and budgeting processes and to report to the congressional defense committees not later than 90 days after the enactment of this Act. This report shall include an analysis of the treatment of MYP funds for Navy programs in the fiscal year 2021 and fiscal year 2022 President's budget submissions.

MISSION PARTNER ENVIRONMENT

The agreement directs the Secretary of the Air Force to submit a report on Mission Partnership Environment (MPE) implementation to the congressional defense committees not later than 180 days after the enactment of this Act. The report shall include, but not be limited to:

- Enacted MPE funding levels by appropriation and fiscal year covering fiscal year 2019 to fiscal year 2022, including a breakout of any funding within the request or provided through a congressional increase;
- For each fiscal year, by program element code and appropriation, the amounts obligated, which MPE capabilities they supported, what was purchased (such as hardware, software, and external labor), and the organization supported (combatant command, military service, or defense agency);
- A spend plan for fiscal year 2022 in detail as required above;
- An explanation of the factors driving any differences between the enacted and actual funding levels by fiscal year, program element code, and appropriation; and
- An overarching program schedule and funding profile by fiscal year for MPE implementation across the future years defense program. This section should be coordinated with other stakeholders such as the Joint Staff, the Department of Defense Chief Information Officer, the Under Secretary of Defense for Intelligence and Security, and the Under Secretary of Defense for Policy.

To ensure completeness and accuracy, the Secretaries of the Army and Navy, Commanders of the combatant commands, and Directors of the combat support agencies are directed to provide the Secretary of the Air Force with the data listed above not later than 90 days after the enactment of this Act.

F-35 CONTINUOUS CAPABILITY DEVELOPMENT AND DELIVERY

The fiscal year 2022 President's budget request includes \$1,983,112,000 in Air Force, Navy, and Marine Corps research and development funding for F-35 continuous capability development and delivery (C2D2), an increase of \$565,858,000 over amounts appropriated in fiscal year 2021. It is noted that per previous congressional direction, C2D2 efforts are delineated into no less than ten distinct projects to provide greater transparency of funds execution, and continued adherence to this budget structure is directed.

Concerns remain regarding the budgeting, contracting and contract performance for C2D2. Therefore, the Program Executive Officer, F-35 Joint Program Office, is directed to submit to the congressional defense committees, beginning not later than with submission of the fiscal year 2023 President's budget request, and bi-monthly thereafter, the following data: contract performance, verification results reporting, quality metrics, technical performance metrics, and process efficiency metrics.

This data shall include detailed explanations of deviations from contracted plans and the President's budget request, to include impact on spend plans for development efforts and award fees.

ENHANCED BUDGET CONTROL FOR UNITED STATES CYBER COMMAND

The agreement supports the Department's efforts to provide U.S. Cyber Command with control over specific budget responsibilities starting with fiscal year 2024. The

agreement directs the Commander, U.S. Cyber Command, to keep the House and Senate Appropriations Committees fully informed on its progress.

SPACE ACQUISITIONS

The agreement recognizes the previous work done by the Department to establish the initial Service transfers to the United States Space Force (USSF), however it notes that the Services continue to invest in space related capabilities to include satellite command and control, proliferated low-earth orbit architectures, and alternative navigation options that may be better suited for management by the USSF. Therefore, the agreement directs the Secretary of Defense, not to be delegated, and in coordination with the Secretaries of the military departments to submit a report to the congressional defense committees, not later than 90 days after the enactment of this Act, which identifies the space-related development and acquisition programs across the military Services. This report shall include a list of programs for each military Service and the executing program office; a brief description of the capability provided; a determination of whether the program should be transferred to the Space Force or not; a proposed timeline for any transfers; and an explanation of the rationale leading to the transfer decision. In addition, the report shall contain an addendum that includes a table detailing the future years defense program resource profile by fiscal year for each program. The addendum shall also include each program broken out by appropriation, budget line number, and the program element or budget line item. A classified annex shall accompany the unclassified report to capture the development and acquisition programs.

MISSILE DEFENSE AGENCY PRIORITIES AND UNFUNDED REQUIREMENTS

The agreement includes \$10,330,701,000 for Missile Defense Agency (MDA) activities in this bill for fiscal year 2022, an increase of \$1,417,696,000 above the

request. The Director of MDA is directed to provide to the congressional defense committees, not later than 30 days after the enactment of this Act, updated acquisition and spend plans for adjusted acquisition programs.

MISSILE DEFENSE AGENCY ACQUISITION AUTHORITIES

No adjustments may be made to the Missile Defense Agency's (MDA) acquisition authorities until 120 days after the Deputy Secretary of Defense, acting directly through the Director of MDA, briefs the congressional defense committees on any such proposed adjustments.

LAUNCH STRATEGY FOR HYPERSONIC AND BALLISTIC TRACKING SPACE SENSOR

The fiscal year 2022 President's budget request includes \$268,811,000 for the Missile Defense Agency (MDA) in Research, Development, Test and Evaluation, Defense-Wide to continue the development of a Hypersonic and Ballistic Tracking Space Sensor (HBTSS), including \$110,000,000 for MDA to launch 2 HBTSS satellites on a single launch vehicle in 2023. It is noted that this launch strategy is inconsistent with MDA's previous plans of launching HBTSS payloads into orbit aboard the Space Development Agency's (SDA) Tranche 0 satellites in 2022/2023, which did not require additional funds for a separate launch by MDA. The MDA and SDA each launching their own satellites reveals a lack of coordination and cooperation between SDA and MDA, poor oversight on the part of the Department of Defense's space acquisition enterprise, and waste of taxpayer dollars. It is directed that no funds available to the Department of Defense may be obligated or expended for an HBTSS Phase IIb modification for additional payloads or space vehicles, or a Phase IIc or a Phase III program in fiscal year 2022. Additional concerns regarding duplication and overlap of

space programs are detailed under the heading “Space Acquisitions” in the general overview of this joint explanatory statement.

FUNDING FOR MISSILE DEFENSE AGENCY TEST EVENTS

Regular and realistic testing of the missile defense system, to include persistent cyber operations – as coordinated with the Director of Operational Test and Evaluation – to prove out missile defense capabilities, increase engagement capability and capacity, and build warfighter confidence, is supported. However, the repeated volatility of the Missile Defense Agency’s (MDA) annual test plans that consistently result in schedule adjustments, test delays, and the cancellation of previously planned and budgeted flight tests in the year of execution is concerning.

The agreement provides funding for MDA’s fiscal year 2022 test events at the funding levels identified in the supplemental test event budget briefing materials provided to the congressional defense committees, as modified by the table of Explanation of Project Level Adjustments accompanying the Research, Development, Test and Evaluation, Defense-Wide account in this joint explanatory statement. The Director of MDA is directed to notify the congressional defense committees prior to executing changes to MDA’s fiscal year 2022 test baseline as established by this agreement.

DEFENSE OF GUAM

The fiscal year 2022 President’s budget request includes \$78,300,000 in Research, Development, Test and Evaluation, Defense-Wide (RDTE,DW) and \$40,000,000 in Procurement, Defense-Wide (P,DW) to develop key system-agnostic enablers that would provide a baseline of capability to support a range of material solutions while the Department of Defense determines an architecture for the Defense of Guam. It is noted

that key information regarding the architecture and associated material solutions for a Defense of Guam were not submitted to the congressional defense committees despite repeated inquiries. Therefore, the budget request is reduced by \$5,900,000. The agreement provides an additional \$40,000,000 in RDTE,DW and \$40,000,000 in P,DW only to accelerate the development of such key enablers pending selection of a specific material solution for the Defense of Guam. None of these additional funds may be obligated or expended until 30 days after the Deputy Secretary of Defense, or her designee, briefs the congressional defense committees on a proposed spend plan and architecture for Defense of Guam.

HOMELAND DEFENSE RADAR-HAWAII

While a discrimination radar on Hawaii continues to be an important part of the architecture for U.S. homeland defense, the President's budget request for fiscal year 2022 did not include funding for the radar, and the Department of Defense has not recommended to the congressional defense committees an adequate or acceptable solution for the defense of Hawaii. Therefore, the agreement provides \$75,000,000 for the Homeland Defense Radar – Hawaii (HDR-H) program for fiscal year 2022 and directs the Director of the Missile Defense Agency, in consultation with the Commander of U.S. Indo-Pacific Command and the Director of Cost Assessment and Program Evaluation, to provide to the congressional defense committees, with submission of the fiscal year 2023 President's budget request, an updated briefing on current and evolving threats, the capability HDR-H provides against these threats, and other realistic solutions to defend Hawaii from current and evolving ballistic missile threats.

ARMY GUARD MULTI DOMAIN OPERATIONS

The Army has not validated any of their division formations as Multi-Domain Operation (MDO) capable, including the eight Army National Guard (ARNG) divisions. The Secretary of the Army is directed to provide a report to the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act and every six months thereafter on which MDO capabilities, either enduring or future, can be incorporated into the ARNG, what further equipment divestitures the Army might require of the ARNG, and the timeframe for the backfill of those divestitures with deployable assets.

ANOMALOUS HEALTH INCIDENTS/HAVANA SYNDROME

The agreement directs the Secretary of Defense, in coordination with appropriate stakeholders across the interagency, to ensure that all intelligence and health information related to anomalous health incidents is shared and appropriately disseminated within proper channels in a timely manner, and to provide a briefing to the congressional defense and intelligence committees on a quarterly basis on the status of the executive branch's activities related to treating anomalous health incidents, including medical treatment, investigation of their origins, and any new incidents reported across any agency. The report directed under this heading in House Report 117-88 is still required to be provided not later than 30 days after the enactment of this Act.

INCENTIVE FEES AND CONTRACTOR PERFORMANCE

The agreement directs the Under Secretary of Defense for Acquisition and Sustainment to deliver to the congressional defense committees, not later than 180 days after enactment of this Act, a report on the Department's payment of fees and bonuses to contractors with documented performance issues. The report shall cover the

previous two fiscal years for each military Service and defense agency including at a minimum: an analysis of the number of contracts that have paid awards or bonuses to a contractor documented to be delivering unsatisfactory performance; the amount of awards or bonuses that have paid out under such circumstances; the total percentage of such awards and bonuses paid out, as a portion of total awards and bonuses over the same timeframe; an analysis of the Department's policy governing payment of awards and bonuses under such circumstances; and recommendations for any changes to authorities or policy that would eliminate payments under such circumstances to implement any recommendations.

RED HILL BULK FUEL STORAGE FACILITY

The agreement includes \$686,429,000 to continue supporting displaced servicemembers, civilians and their families, addressing drinking water contamination, and to conduct activities in compliance with the State of Hawaii Department of Health Order 21-UST-EA-02. It is noted that the Department of Defense has failed to provide to the people of Hawaii and the Congress actionable information regarding the courses of action under consideration to ensure safe operation of the Red Hill Bulk Fuel Storage Facility going forward, and associated resource requirements.

The Secretary of Defense is directed to provide the congressional defense committees no later than 90 days after enactment of this Act a report detailing all options under consideration by the Department of Defense both to mitigate issues with fuel storage at the Red Hill Bulk Fuel Storage Facility, as well as future plans for the site and Department of Defense fuel storage requirements. The report shall, at a minimum, include: the cost of remediating current harms to people, the water supply, and the environment; the cost of repairing the facility to ensure safe defueling; the costs related to

defueling the facility; costs of future plans under consideration for the facility; as well as the timeline for each such activity.

FEDERAL LAW ENFORCEMENT

The agreement notes that the explanatory statement accompanying the Commerce, Justice, Science, and Related Agencies Appropriations Act, 2022 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, and the protection of civil rights, 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 submit a report to the Committees on Appropriations on their efforts relating to such implementation no later than 180 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 submit a report to the Committees on Appropriations, no later than 180 days after enactment of this Act, on their efforts to so participate.

TITLE I - MILITARY PERSONNEL

The agreement provides \$166,715,907,000 in Title I, Military Personnel, in addition to \$157,360,000 provided in P.L. 117-86.

~~(INSERT MILPERS RECAP TABLE)~~

insert 21A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RECAPITULATION		
MILITARY PERSONNEL, ARMY.....	47,973,824	47,814,079
MILITARY PERSONNEL, NAVY.....	35,496,879	35,504,251
MILITARY PERSONNEL, MARINE CORPS.....	14,748,337	14,572,400
MILITARY PERSONNEL, AIR FORCE.....	35,047,901	35,078,206
RESERVE PERSONNEL, ARMY.....	5,229,805	5,156,976
RESERVE PERSONNEL, NAVY.....	2,316,934	2,297,029
RESERVE PERSONNEL, MARINE CORPS.....	881,909	802,619
RESERVE PERSONNEL, AIR FORCE.....	2,386,013	2,371,001
NATIONAL GUARD PERSONNEL, ARMY.....	9,051,344	9,017,728
NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,814,974	4,764,443
	=====	=====
GRAND TOTAL, TITLE I, MILITARY PERSONNEL.....	157,947,920	157,378,732
GRAND TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	9,337,175	9,337,175
	=====	=====
GRAND TOTAL, MILITARY PERSONNEL.....	167,285,095	166,715,907
	=====	=====

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SUMMARY OF MILITARY PERSONNEL END STRENGTH

	Fiscal year 2022				
	Fiscal year 2021 authorized	Budget Request	Final Bill	Change from request	Change from fiscal year 2021
Active Forces (End Strength):					
Army.....	485,900	485,000	485,000	---	-900
Navy.....	347,800	346,200	346,920	720	-880
Marine Corps.....	181,200	178,500	178,500	---	-2,700
Air Force.....	333,475	328,300	329,220	920	-4,255
Space Force.....	---	8,400	8,400	---	8,400
Total, Active Forces.....	1,348,375	1,346,400	1,348,040	1,640	-335
Guard and Reserve Forces (End Strength):					
Army Reserve.....	189,800	189,500	189,500	---	-300
Navy Reserve.....	58,800	58,600	58,600	---	-200
Marine Corps Reserve.....	38,500	36,800	36,800	---	-1,700
Air Force Reserve.....	70,300	70,300	70,300	---	---
Army National Guard.....	336,500	336,000	336,000	---	-500
Air National Guard.....	108,100	108,300	108,300	---	200
Total, Selected Reserve.....	802,000	799,500	799,500	---	-2,500
Total, Military Personnel.....	2,150,375	2,145,900	2,147,540	1,640	-2,835

SUMMARY OF GUARD AND RESERVE FULL-TIME STRENGTH

	Fiscal year 2022				
	Fiscal year 2021 authorized	Budget Request	Final Bill	Change from request	Change from fiscal year 2021
Active Guard and Reserve:					
Army Reserve.....	16,511	16,511	16,511	---	---
Navy Reserve.....	10,155	10,293	10,293	---	138
Marine Corps Reserve.....	2,386	2,386	2,386	---	---
Air Force Reserve.....	4,431	6,003	6,003	---	1,572
Army National Guard.....	30,595	30,845	30,845	---	250
Air National Guard.....	22,637	26,661	25,333	-1,328	2,696
Total, Full-Time Support.....	86,715	92,699	91,371	-1,328	4,656

MILITARY PERSONNEL OVERVIEW

The agreement provides the resources required for 1,348,040 active forces and 799,500 selected reserve forces in order to meet operational needs for fiscal year 2022. The agreement also provides the funding necessary to support a 2.7 percent pay raise for all military personnel, effective January 1, 2022.

REPROGRAMMING GUIDANCE FOR MILITARY PERSONNEL ACCOUNTS

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

STRENGTH REPORTING

The Service Secretaries are directed to provide monthly strength reports for all components to the House and Senate Appropriations Committees beginning not later than 30 days after enactment of this Act. The first report shall provide actual baseline end strength for officer, enlisted and cadet personnel, and the total component. The second report shall provide the monthly end of year projection for average strength for officer, enlisted, and cadet personnel using the formula in the Department of Defense Financial Management Regulation Volume 2A, Chapter Two. For the active components, this report shall break out average strength data by base and direct war and enduring costs; and differentiate between the active and reserve components.

RESERVE COMPONENT BUDGET REPORTING

The 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.

FOOD INSECURITY

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

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

EXTREMISM IN THE MILITARY

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

MILITARY PERSONNEL, ARMY

The agreement provides \$47,814,079,000 for Military Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT 26A-C

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MILITARY PERSONNEL, ARMY		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY	8,209,572	8,209,572
RETIRED PAY ACCRUAL	2,846,910	2,846,910
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	83,231	83,231
BASIC ALLOWANCE FOR HOUSING	2,366,346	2,366,346
BASIC ALLOWANCE FOR SUBSISTENCE	318,174	318,174
INCENTIVE PAYS	84,496	84,496
SPECIAL PAYS	408,728	408,728
ALLOWANCES	208,786	208,786
SEPARATION PAY	62,128	62,128
SOCIAL SECURITY TAX	626,400	626,400

TOTAL, BUDGET ACTIVITY 1	15,214,771	15,214,771
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	15,218,575	15,218,575
RETIRED PAY ACCRUAL	5,277,193	5,277,193
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	185,285	185,285
BASIC ALLOWANCE FOR HOUSING	5,026,104	5,026,104
INCENTIVE PAYS	90,396	90,396
SPECIAL PAYS	886,738	886,738
ALLOWANCES	756,814	756,814
SEPARATION PAY	276,456	276,456
SOCIAL SECURITY TAX	1,164,221	1,164,221

TOTAL, BUDGET ACTIVITY 2	28,881,782	28,881,782
ACTIVITY 3: PAY AND ALLOWANCES OF CADETS		
ACADEMY CADETS	94,375	94,375
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	1,406,620	1,406,620
SUBSISTENCE-IN-KIND	824,921	824,921

TOTAL, BUDGET ACTIVITY 4	2,231,541	2,231,541

26A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	131,239	131,239
TRAINING TRAVEL.....	145,625	145,625
OPERATIONAL TRAVEL.....	409,167	409,167
ROTATIONAL TRAVEL.....	648,299	648,299
SEPARATION TRAVEL.....	214,571	214,571
TRAVEL OF ORGANIZED UNITS.....	2,407	2,407
NON-TEMPORARY STORAGE.....	9,037	9,037
TEMPORARY LODGING EXPENSE.....	49,868	49,868

TOTAL, BUDGET ACTIVITY 5.....	1,610,213	1,610,213
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	245	245
INTEREST ON UNIFORMED SERVICES SAVINGS.....	3,442	3,442
DEATH GRATUITIES.....	49,000	49,000
UNEMPLOYMENT BENEFITS.....	69,125	69,125
EDUCATION BENEFITS.....	15	15
ADOPTION EXPENSES.....	426	426
TRANSPORTATION SUBSIDY.....	11,736	11,736
PARTIAL DISLOCATION ALLOWANCE.....	78	78
SGLI EXTRA HAZARD PAYMENTS.....	6,650	6,650
RESERVE OFFICERS TRAINING CORPS (ROTC).....	104,727	104,727
JUNIOR ROTC.....	33,992	33,992

TOTAL, BUDGET ACTIVITY 6.....	279,436	279,436
LESS REIMBURSABLES.....	-338,294	-338,294
UNDISTRIBUTED ADJUSTMENT.....	---	-159,745
=====		
TOTAL, TITLE I, MILITARY PERSONNEL, ARMY.....	47,973,824	47,814,079
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	2,622,860	2,622,860
TOTAL, MILITARY PERSONNEL, ARMY.....	50,596,684	50,436,939
=====		

(26B)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-159,745
Historical unobligated balances		-98,470
Revised budget estimate		-178,360
Program increase - Basic Allowance for Housing		39,400
Program increase - Basic Allowance for Subsistence		35,700
Program increase - Red Hill		41,985

(26C)

MILITARY PERSONNEL, NAVY

The agreement provides \$35,504,251,000 for Military Personnel, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (27A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
MILITARY PERSONNEL, NAVY		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY.....	4,927,327	4,927,327
RETIRED PAY ACCRUAL.....	1,722,160	1,722,160
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	93,769	93,769
BASIC ALLOWANCE FOR HOUSING.....	1,772,341	1,772,341
BASIC ALLOWANCE FOR SUBSISTENCE.....	184,764	184,764
INCENTIVE PAYS.....	158,262	158,262
SPECIAL PAYS.....	471,491	471,491
ALLOWANCES.....	118,872	118,872
SEPARATION PAY.....	45,642	45,642
SOCIAL SECURITY TAX.....	375,786	375,786
TOTAL, BUDGET ACTIVITY 1.....	9,870,414	9,870,414
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY.....	11,273,463	11,273,463
RETIRED PAY ACCRUAL.....	3,939,197	3,939,197
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	158,537	158,537
BASIC ALLOWANCE FOR HOUSING.....	5,389,737	5,389,737
INCENTIVE PAYS.....	117,064	117,064
SPECIAL PAYS.....	1,094,765	1,094,765
ALLOWANCES.....	553,624	553,624
SEPARATION PAY.....	106,949	106,949
SOCIAL SECURITY TAX.....	862,420	862,420
TOTAL, BUDGET ACTIVITY 2.....	23,495,756	23,495,756
ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN		
MIDSHIPMEN.....	96,001	96,001
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE.....	929,731	929,731
SUBSISTENCE-IN-KIND.....	440,871	440,871
FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	5	5
TOTAL, BUDGET ACTIVITY 4.....	1,370,607	1,370,607

37A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	96,429	96,429
TRAINING TRAVEL.....	141,196	141,196
OPERATIONAL TRAVEL.....	285,424	285,424
ROTATIONAL TRAVEL.....	241,054	241,054
SEPARATION TRAVEL.....	164,724	164,724
TRAVEL OF ORGANIZED UNITS.....	30,229	30,229
NON-TEMPORARY STORAGE.....	15,647	15,647
TEMPORARY LODGING EXPENSE.....	20,926	20,926

TOTAL, BUDGET ACTIVITY 5.....	995,629	995,629
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	41	41
INTEREST ON UNIFORMED SERVICES SAVINGS.....	1,144	1,144
DEATH GRATUITIES.....	22,400	22,400
UNEMPLOYMENT BENEFITS.....	48,897	48,897
EDUCATION BENEFITS.....	1,638	1,638
ADOPTION EXPENSES.....	185	185
TRANSPORTATION SUBSIDY.....	2,906	2,906
PARTIAL DISLOCATION ALLOWANCE.....	40	40
SGLI EXTRA HAZARD PAYMENTS.....	488	488
RESERVE OFFICERS TRAINING CORPS (ROTC).....	23,072	23,072
JUNIOR ROTC.....	15,891	15,891

TOTAL, BUDGET ACTIVITY 6.....	116,702	116,702
LESS REIMBURSABLES.....	-448,230	-448,230
UNDISTRIBUTED ADJUSTMENT.....	---	7,372
=====		
TOTAL, TITLE I, MILITARY PERSONNEL, NAVY.....	35,496,879	35,504,251
HEALTH CARE CONTRIBUTION - OFFICERS.....	308,883	308,883
HEALTH CARE CONTRIBUTION - ENLISTED.....	1,579,453	1,579,453
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	1,888,336	1,888,336
TOTAL, MILITARY PERSONNEL, NAVY.....	39,273,551	39,280,923
=====		

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		7,372
Historical unobligated balances		-38,250
Revised budget estimate		-64,900
Program increase - Basic Allowance for Housing		37,400
Program increase - Basic Allowance for Subsistence		23,900
Program increase - Red Hill		26,482
Program increase - USS FORT WORTH, USS DETROIT, USS LITTLE ROCK		22,600
Program increase - Implementation of the Independent Review		
Commission on Sexual Assault in the Military		140

27C

MILITARY PERSONNEL, MARINE CORPS

The agreement provides \$14,572,400,000 for Military Personnel, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (28A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MILITARY PERSONNEL, MARINE CORPS		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY.....	1,822,259	1,822,259
RETIRED PAY ACCRUAL.....	638,312	638,312
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	29,328	29,328
BASIC ALLOWANCE FOR HOUSING.....	584,652	584,652
BASIC ALLOWANCE FOR SUBSISTENCE.....	71,744	71,744
INCENTIVE PAYS.....	53,379	53,379
SPECIAL PAYS.....	6,111	6,111
ALLOWANCES.....	34,778	34,778
SEPARATION PAY.....	15,534	15,534
SOCIAL SECURITY TAX.....	136,029	136,029

TOTAL, BUDGET ACTIVITY 1.....	3,392,126	3,392,126
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY.....	5,419,211	5,419,211
RETIRED PAY ACCRUAL.....	1,897,892	1,897,892
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	122,101	122,101
BASIC ALLOWANCE FOR HOUSING.....	1,619,516	1,619,516
INCENTIVE PAYS.....	8,359	8,359
SPECIAL PAYS.....	194,305	194,305
ALLOWANCES.....	297,513	297,513
SEPARATION PAY.....	120,018	120,018
SOCIAL SECURITY TAX.....	414,220	414,220

TOTAL, BUDGET ACTIVITY 2.....	10,093,135	10,093,135
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE.....	424,809	424,809
SUBSISTENCE-IN-KIND.....	358,425	358,425
FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	10	10

TOTAL, BUDGET ACTIVITY 4.....	783,244	783,244

75A)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	55,547	55,547
TRAINING TRAVEL.....	17,705	17,705
OPERATIONAL TRAVEL.....	161,828	161,828
ROTATIONAL TRAVEL.....	116,628	116,628
SEPARATION TRAVEL.....	79,435	79,435
TRAVEL OF ORGANIZED UNITS.....	734	734
NON-TEMPORARY STORAGE.....	12,156	12,156
TEMPORARY LODGING EXPENSE.....	2,461	2,461
OTHER.....	2,231	2,231

TOTAL, BUDGET ACTIVITY 5.....	448,725	448,725
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	234	234
INTEREST ON UNIFORMED SERVICES SAVINGS.....	124	124
DEATH GRATUITIES.....	13,000	13,000
UNEMPLOYMENT BENEFITS.....	39,643	39,643
ADOPTION EXPENSES.....	94	94
TRANSPORTATION SUBSIDY.....	1,475	1,475
PARTIAL DISLOCATION ALLOWANCE.....	90	90
SGLI EXTRA HAZARD PAYMENTS.....	1,964	1,964
JUNIOR ROTC.....	3,889	3,889

TOTAL, BUDGET ACTIVITY 6.....	60,513	60,513
LESS REIMBURSABLES.....	-29,406	-29,406
UNDISTRIBUTED ADJUSTMENT.....	---	-175,937
=====		
TOTAL, TITLE I, MILITARY PERSONNEL, MARINE CORPS....	14,748,337	14,572,400
HEALTH CARE CONTRIBUTION - OFFICERS.....	120,829	120,829
HEALTH CARE CONTRIBUTION - ENLISTED.....	872,569	872,569
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375).....	993,398	993,398
TOTAL, MILITARY PERSONNEL, MARINE CORPS.....	16,735,133	16,559,196
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-175,937
Historical unobligated balances		-152,500
Revised budget estimate		-52,741
Program increase - Basic Allowance for Housing		16,400
Program increase - Basic Allowance for Subsistence		11,600
Program increase - Red Hill		1,164
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		140

MILITARY PERSONNEL, AIR FORCE

The agreement provides \$35,078,206,000 for Military Personnel, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (29A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MILITARY PERSONNEL, AIR FORCE		
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY.....	5,921,052	5,921,052
RETIRED PAY ACCRUAL.....	2,051,100	2,051,100
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	74,304	74,304
BASIC ALLOWANCE FOR HOUSING.....	1,741,048	1,741,048
BASIC ALLOWANCE FOR SUBSISTENCE.....	219,395	219,395
INCENTIVE PAYS.....	385,666	385,666
SPECIAL PAYS.....	358,094	358,094
ALLOWANCES.....	129,427	129,427
SEPARATION PAY.....	39,320	39,320
SOCIAL SECURITY TAX.....	452,226	452,226
TOTAL, BUDGET ACTIVITY 1.....	11,371,632	11,371,632

ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY.....	10,894,939	10,894,939
RETIRED PAY ACCRUAL.....	3,779,181	3,779,181
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	110,413	110,413
BASIC ALLOWANCE FOR HOUSING.....	4,460,507	4,460,507
INCENTIVE PAYS.....	66,323	66,323
SPECIAL PAYS.....	388,852	388,852
ALLOWANCES.....	623,044	623,044
SEPARATION PAY.....	105,298	105,298
SOCIAL SECURITY TAX.....	833,463	833,463
TOTAL, BUDGET ACTIVITY 2.....	21,262,020	21,262,020

ACTIVITY 3: PAY AND ALLOWANCES OF CADETS		
ACADEMY CADETS.....	88,069	88,069
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE.....	1,183,075	1,183,075
SUBSISTENCE-IN-KIND.....	273,607	273,607
TOTAL, BUDGET ACTIVITY 4.....	1,456,682	1,456,682

25A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

ACTIVITY 5: PERMANENT CHANGE OF STATION		
ACCESSION TRAVEL.....	97,861	97,861
TRAINING TRAVEL.....	57,592	57,592
OPERATIONAL TRAVEL.....	353,015	353,015
ROTATIONAL TRAVEL.....	489,495	489,495
SEPARATION TRAVEL.....	144,714	144,714
TRAVEL OF ORGANIZED UNITS.....	2,682	2,682
NON-TEMPORARY STORAGE.....	27,039	27,039
TEMPORARY LODGING EXPENSE.....	35,715	35,715

TOTAL, BUDGET ACTIVITY 5.....	1,208,113	1,208,113
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
APPREHENSION OF MILITARY DESERTERS.....	29	29
INTEREST ON UNIFORMED SERVICES SAVINGS.....	2,065	2,065
DEATH GRATUITIES.....	17,500	17,500
UNEMPLOYMENT BENEFITS.....	26,111	26,111
EDUCATION BENEFITS.....	16	16
ADOPTION EXPENSES.....	416	416
TRANSPORTATION SUBSIDY.....	2,800	2,800
PARTIAL DISLOCATION ALLOWANCE.....	783	783
SGLI EXTRA HAZARD PAYMENTS.....	4,981	4,981
RESERVE OFFICERS TRAINING CORPS (ROTC).....	44,585	44,585
JUNIOR ROTC.....	18,783	18,783

TOTAL, BUDGET ACTIVITY 6.....	118,069	118,069
LESS REIMBURSABLES.....	-456,684	-456,684
UNDISTRIBUTED ADJUSTMENT.....	---	30,305
=====		
TOTAL, TITLE I, MILITARY PERSONNEL, AIR FORCE.....	35,047,901	35,078,206
HEALTH CARE CONTRIBUTION - OFFICERS.....	355,853	355,853
HEALTH CARE CONTRIBUTION - ENLISTED.....	1,468,087	1,468,087
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	1,823,940	1,823,940
TOTAL, MILITARY PERSONNEL, AIR FORCE.....	38,695,781	38,726,086
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		30,305
Historical unobligated balances		-31,770
Revised budget estimate		-114,925
Program increase - Basic Allowance for Housing		147,500
Program increase - Basic Allowance for Subsistence		29,500

RESERVE PERSONNEL, ARMY

The agreement provides \$5,156,976,000 for Reserve Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (30A-B)

~~(INSERT PROJECT LEVEL TABLE)~~

(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).....	1,676,861	1,676,861
PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	56,123	56,123
PAY GROUP F TRAINING (RECRUITS).....	217,116	217,116
PAY GROUP P TRAINING (PIPELINE RECRUITS).....	5,006	5,006
MOBILIZATION TRAINING.....	4,333	4,333
SCHOOL TRAINING.....	236,971	236,971
SPECIAL TRAINING.....	368,618	368,618
ADMINISTRATION AND SUPPORT.....	2,520,000	2,520,000
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	23,447	23,447
EDUCATION BENEFITS.....	18,122	18,122
HEALTH PROFESSION SCHOLARSHIP.....	64,313	64,313
OTHER PROGRAMS (ADMIN & SUPPORT).....	38,895	38,895

TOTAL, BUDGET ACTIVITY 1.....	5,229,805	5,229,805
UNDISTRIBUTED ADJUSTMENT.....	---	-72,829
=====		
TOTAL, TITLE I, RESERVE PERSONNEL, ARMY.....	5,229,805	5,156,976
HEALTH CARE CONTRIBUTION - RESERVE COMPONENT.....	459,994	459,994
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375).....	459,994	459,994
TOTAL, RESERVE PERSONNEL, ARMY.....	6,149,793	6,076,964
=====		

30A)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-72,829
Historical unobligated balances		-57,000
Revised budget estimate		-21,329
Program increase - Basic Allowance for Housing		3,300
Program increase - Basic Allowance for Subsistence		2,200

(30B)

RESERVE PERSONNEL, NAVY

The agreement provides \$2,297,029,000 for Reserve Personnel, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (31A-B)

~~(INSERT PROJECT LEVEL TABLE)~~

(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).....	759,809	759,809
PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	8,672	8,672
PAY GROUP F TRAINING (RECRUITS).....	51,024	51,024
MOBILIZATION TRAINING.....	13,289	13,289
SCHOOL TRAINING.....	64,775	64,775
SPECIAL TRAINING.....	151,665	151,665
ADMINISTRATION AND SUPPORT.....	1,201,916	1,201,916
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	6,330	6,330
EDUCATION BENEFITS.....	76	76
HEALTH PROFESSION SCHOLARSHIP.....	59,378	59,378

TOTAL, BUDGET ACTIVITY 1.....	2,316,934	2,316,934
UNDISTRIBUTED ADJUSTMENT.....	---	-19,905
=====		
TOTAL, TITLE I, RESERVE PERSONNEL, NAVY.....	2,316,934	2,297,029
HEALTH CARE CONTRIBUTION - RESERVE COMPONENT.....	160,129	160,129
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	160,129	160,129
TOTAL, RESERVE PERSONNEL, NAVY.....	2,637,192	2,617,287
=====		

316)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-19,905
Historical unobligated balances		-22,705
Program increase - Basic Allowance for Housing		600
Program increase - Basic Allowance for Subsistence		2,200

31B)

RESERVE PERSONNEL, MARINE CORPS

The agreement provides \$802,619,000 for Reserve Personnel, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT: 32A-B

~~(INSERT PROJECT LEVEL TABLE)~~

(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).....	289,423	289,423
PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	48,270	48,270
PAY GROUP F TRAINING (RECRUITS).....	149,202	149,202
MOBILIZATION TRAINING.....	2,582	2,582
SCHOOL TRAINING.....	24,192	24,192
SPECIAL TRAINING.....	58,744	58,744
ADMINISTRATION AND SUPPORT.....	291,551	291,551
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	5,291	5,291
PLATOON LEADER CLASS.....	8,973	8,973
EDUCATION BENEFITS.....	3,681	3,681

TOTAL, BUDGET ACTIVITY 1.....	881,909	881,909
UNDISTRIBUTED ADJUSTMENT.....	---	-79,290
=====		
TOTAL, TITLE I, RESERVE PERSONNEL, MARINE CORPS.....	881,909	802,619
HEALTH CARE CONTRIBUTION - RESERVE COMPONENT.....	85,716	85,716
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	85,716	85,716
TOTAL, RESERVE PERSONNEL, MARINE CORPS.....	1,053,341	974,051
=====		

(32A)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-79,290
Historical unobligated balances		-15,690
Revised budget estimate		-65,000
Program increase - Basic Allowance for Housing		500
Program increase - Basic Allowance for Subsistence		900

32B

RESERVE PERSONNEL, AIR FORCE

The agreement provides \$2,371,001,000 for Reserve Personnel, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (33 A-B)

~~(INSERT PROJECT LEVEL TABLE)~~

(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)	735,341	735,341
PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY)	112,532	112,532
PAY GROUP F TRAINING (RECRUITS)	68,252	68,252
PAY GROUP P TRAINING (PIPELINE RECRUITS)	4,235	4,235
MOBILIZATION TRAINING	599	599
SCHOOL TRAINING	197,290	197,290
SPECIAL TRAINING	357,457	357,457
ADMINISTRATION AND SUPPORT	827,431	827,431
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS	6,289	6,289
EDUCATION BENEFITS	12,845	12,845
HEALTH PROFESSION SCHOLARSHIP	60,895	60,895
OTHER PROGRAMS (ADMIN & SUPPORT)	2,847	2,847

TOTAL, BUDGET ACTIVITY 1	2,386,013	2,386,013
UNDISTRIBUTED ADJUSTMENT	---	-15,012
=====		
TOTAL, TITLE I, RESERVE PERSONNEL, AIR FORCE	2,386,013	2,371,001
HEALTH CARE CONTRIBUTION - RESERVE COMPONENT	168,959	168,959
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375)	168,959	168,959
TOTAL, RESERVE PERSONNEL, AIR FORCE	2,723,931	2,708,919
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENTS		-15,012
Historical unobligated balances		-11,580
Revised budget estimate		-12,932
Program increase - Basic Allowance for Housing		7,600
Program increase - Basic Allowance for Subsistence		1,900

(33 B)

NATIONAL GUARD PERSONNEL, ARMY

The agreement provides \$9,017,728,000 for National Guard Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (34A-B)

~~(INSERT PROJECT LEVEL TABLE)~~

(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).....	2,746,281	2,746,281
PAY GROUP F TRAINING (RECRUITS).....	561,111	561,111
PAY GROUP P TRAINING (PIPELINE RECRUITS).....	46,286	46,286
SCHOOL TRAINING.....	543,332	543,332
SPECIAL TRAINING.....	822,161	843,761
ADMINISTRATION AND SUPPORT.....	4,241,094	4,241,844
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	41,514	41,514
EDUCATION BENEFITS.....	49,565	49,565

TOTAL, BUDGET ACTIVITY 1.....	9,051,344	9,073,694
UNDISTRIBUTED ADJUSTMENT.....	---	-67,500
ADVANCED TRAUMA AND PUBLIC HEALTH DIRECT TRAINING SERVICES.....	---	1,534
EXERCISE NORTHERN STRIKE.....	---	10,000
=====		
TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, ARMY.....	9,051,344	9,017,728
HEALTH CARE CONTRIBUTION - RESERVE COMPONENT.....	819,504	819,504
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	819,504	819,504
TOTAL, NATIONAL GUARD PERSONNEL, ARMY.....	10,690,352	10,656,736
=====		

39A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
SPECIAL TRAINING	822,161	843,761
Program increase - State Partnership Program		7,900
Program increase - wildfire training		6,500
Program increase - trauma training		1,200
Program increase - pilot program for remote provision of cybersecurity technical assistance		6,000
ADMINISTRATION AND SUPPORT	4,241,094	4,241,844
Program increase - warrior resiliency and fitness		750
UNDISTRIBUTED ADJUSTMENTS		-67,500
Historical unobligated balances		-46,948
Revised budget estimate		-35,452
Program increase - Basic Allowance for Housing		6,000
Program increase - Basic Allowance for Subsistence		8,900
ADVANCED TRAUMA AND PUBLIC HEALTH DIRECT TRAINING SERVICES		1,534
EXERCISE NORTHERN STRIKE		10,000

34B

NATIONAL GUARD PERSONNEL, AIR FORCE

The agreement provides \$4,764,443,000 for National Guard Personnel, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (35A-B)

~~(INSERT PROJECT LEVEL TABLE)~~

(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),.....	920,210	920,210
PAY GROUP F TRAINING (RECRUITS).....	110,398	110,398
PAY GROUP P TRAINING (PIPELINE RECRUITS).....	5,822	5,822
SCHOOL TRAINING.....	350,965	350,965
SPECIAL TRAINING.....	245,388	271,448
ADMINISTRATION AND SUPPORT.....	3,154,646	3,089,646
THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	15,172	15,172
EDUCATION BENEFITS.....	12,373	12,373

TOTAL, BUDGET ACTIVITY 1.....	4,814,974	4,776,034
UNDISTRIBUTED ADJUSTMENT.....	---	-14,256
ADVANCED TRAUMA AND PUBLIC HEALTH DIRECT TRAINING SERVICES.....	---	2,665
=====		
TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, AIR FORCE,	4,814,974	4,764,443
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	314,339	314,339
TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE.....	5,129,313	5,078,782
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
SPECIAL TRAINING	245,388	271,448
Program increase - State Partnership Program		2,500
Program increase - critical skillsets crosstraining		3,000
Program increase - RC-26B		12,700
Program increase - trauma training		2,400
Program increase - wildfire training		5,460
ADMINISTRATION AND SUPPORT	3,154,646	3,089,646
Program increase - warrior resiliency and fitness		500
Transfer to Operation and Maintenance, Air National Guard		-65,500
UNDISTRIBUTED ADJUSTMENTS		-14,256
Historical unobligated balances		-17,295
Revised budget estimate		-19,701
Program increase - Basic Allowance for Housing		19,400
Program increase - Basic Allowance for Subsistence		2,800
Program increase - Implementation of the Independent Review		
Commission on Sexual Assault in the Military		540
ADVANCED TRAUMA AND PUBLIC HEALTH DIRECT TRAINING SERVICES		2,665

(35R)

TITLE II – OPERATION AND MAINTENANCE

The agreement provides \$256,096,100,000 in Title II, Operation and Maintenance, in addition to \$192,640,000 provided in P.L. 117-86.

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

insert 36A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

RECAPITULATION		
OPERATION & MAINTENANCE, ARMY.....	54,616,397	55,016,103
OPERATION & MAINTENANCE, NAVY.....	60,441,228	62,480,035
OPERATION & MAINTENANCE, MARINE CORPS.....	9,024,791	9,185,430
OPERATION & MAINTENANCE, AIR FORCE.....	53,876,475	55,103,948
OPERATION & MAINTENANCE, SPACE FORCE.....	3,440,712	3,435,212
OPERATION & MAINTENANCE, DEFENSE-WIDE.....	44,918,366	45,864,202
AFGHANISTAN SECURITY FORCES FUND.....	3,327,810	---
COUNTER ISIS TRAIN AND EQUIP FUND (CTEF).....	522,000	500,000
OPERATION & MAINTENANCE, ARMY RESERVE.....	3,000,635	3,032,255
OPERATION & MAINTENANCE, NAVY RESERVE.....	1,148,698	1,173,598
OPERATION & MAINTENANCE, MARINE CORPS RESERVE.....	285,050	294,860
OPERATION & MAINTENANCE, AIR FORCE RESERVE.....	3,352,106	3,417,706
OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.....	7,647,209	7,714,473
OPERATION & MAINTENANCE, AIR NATIONAL GUARD.....	6,574,020	6,786,420
UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES...	15,589	15,589
ENVIRONMENTAL RESTORATION, ARMY.....	200,806	299,008
ENVIRONMENTAL RESTORATION, NAVY.....	298,250	390,113
ENVIRONMENTAL RESTORATION, AIR FORCE.....	301,768	522,010
ENVIRONMENTAL RESTORATION, DEFENSE-WIDE.....	8,783	10,979
ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES	218,580	292,580
OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID.....	110,051	160,051
COOPERATIVE THREAT REDUCTION ACCOUNT.....	239,849	344,849
DOD ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT.....	54,679	56,679
	=====	=====
GRAND TOTAL, OPERATION & MAINTENANCE.....	253,623,852	256,096,100
	=====	=====

36-A

REPROGRAMMING GUIDANCE FOR OPERATION AND MAINTENANCE ACCOUNTS

The Secretary of Defense is directed to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2022 appropriation accounts not later than 60 days after the enactment of this Act. The Secretary of Defense is prohibited from executing any reprogramming or transfer of funds for any purpose other than originally appropriated until the aforementioned report is submitted to the House and Senate 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
- Flight training

Navy:

- Mission and other flight operations

- Fleet air training
- Aircraft depot maintenance
- Mission and other ship operations
- Ship depot maintenance
- Combat Support Forces
- Facilities sustainment, restoration, and modernization
- Base Operating Support

Marine Corps:

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

Air Force:

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

Space Force:

- Contractor logistics support and system support
- Administration

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:

Air Force:

Base support

Operation and Maintenance, Army National Guard:

Base operations support

Facilities sustainment, restoration, and modernization

Operation and Maintenance, Air National Guard:

Aircraft operations

Contractor logistics support and systems support

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.

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 2022 appropriation not later than 60 days after the enactment of this Act. The Secretary of Defense is further directed to submit quarterly execution reports to the congressional defense committees not later than 45 days after the end of each fiscal quarter that addresses the rationale for the realignment of any funds within and between budget sub-activities. Finally, the Secretary of Defense is directed to notify the congressional defense committees 30 days prior to the realignment of funds in excess of \$10,000,000 between sub-activity groups.

ASSISTANT SECRETARY OF DEFENSE FOR SPECIAL OPERATIONS AND LOW INTENSITY CONFLICT

The fiscal year 2022 budget request includes an additional \$9,420,000 and 15 civilian full-time equivalents (FTE) for the Secretariat of Special Operations within the Office of the Assistant Secretary of Defense for Special Operations and Low-Intensity

Conflict. The agreement transfers five FTE from the Secretariat for Special Operations to the Office of Information Operations Policy.

INFORMATION OPERATIONS

The agreement includes \$4,000,000 for U.S. Special Operations Command (USSOCOM) Information Operations and directs the Commander of USSOCOM to submit a detailed spend plan to the House and Senate Appropriations Committees not later than 30 days prior to the obligation of the funds.

MILITARY TUITION ASSISTANCE PROGRAM

The agreement recognizes that servicemembers can use the Military Tuition Assistance Programs (MilTA) to enroll in civilian education programs and commends the Marine Corps and the Air Force for augmenting these programs in their fiscal year 2022 budget requests. However, there is concern that the current academic and career advising programs do not provide structured guidance that aligns military and civilian workforce requirements with MilTA education programs and courses. The agreement directs the Under Secretary of Defense for Personnel and Readiness and the Service Secretaries to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act with recommendations to augment the Services' academic and career advising programs to provide servicemembers with structured guidance for MilTA education programs and courses, as if they were to attend a military education program. The recommendations should also include guidance for servicemembers who wish to transition to a hard-to-fill career in their respective Service. The report should also create an annual survey to align academic and career counseling and structured guidance with servicemembers' career goals in the military or civilian workforce.

MINIMUM WAGE

The agreement does not include language referenced in House Report 117-88 requiring the Secretary of Defense to provide details of minimum wage costs for non-appropriated funded employees due to the implementation of Executive Order 14003 by the Office of Personnel Management on January 21, 2022.

DRINKING WATER CONTAMINATION

The agreement provides an additional \$236,480,000 for the Department of Defense and military Services to remediate contaminated drinking water caused by per- and polyfluoroalkyl substances. The Service Secretaries are directed to provide a spend plan to the House and Senate Appropriations Committees for these additional funds not later than 60 days after enactment of this Act.

ADDRESSING SEXUAL ASSAULT

The agreement provides an additional \$96,980,000 for the Department of Defense to implement the Independent Review Commission on Sexual Assault in the Military's recommendations. The Secretary of Defense is directed to provide a spend plan for the additional funds to the House and Senate Appropriations Committees not later than 60 days after the enactment of this Act.

SUPPORT FOR INTERNATIONAL NATURAL RESOURCES MANAGEMENT AND SECURITY

The agreement includes an additional \$35,000,000 for the combatant commands to partner with the United States Forest Service in support of international programs that support national security priorities related to the destabilizing effects of extreme weather conditions.

DOMESTIC SUPPLY CHAIN RESILIENCY MATRIX

The agreement recognizes that a diverse and distributed network of domestic production and service capabilities can improve the performance of warfighting assets and U.S. competitiveness while reducing commercial reliance on other nations. A critical component in achieving this objective is to have current and relevant information on existing companies and capabilities within the U.S. at the local, state and national level through the development of a national domestic supply chain matrix. The agreement provides an additional \$5,000,000 and directs the Office of the Under Secretary of Defense for Acquisition and Sustainment to partner with commercial entities in support of developing such a domestic supply chain matrix. This matrix should include identification of current supply base capabilities by region, state, and city, as focus on strengthening and diversifying underserved areas of the supply chain including small and minority led businesses.

OPERATION AND MAINTENANCE, ARMY

The agreement provides \$55,016,103,000 for Operation and Maintenance, Army,
as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (44A-F)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, ARMY		
BUDGET ACTIVITY 1: OPERATING FORCES		
LAND FORCES		
10	MANEUVER UNITS.....	3,563,856 3,518,856
20	MODULAR SUPPORT BRIGADES.....	142,082 142,082
30	ECHELONS ABOVE BRIGADES.....	758,174 758,174
40	THEATER LEVEL ASSETS.....	2,753,783 2,703,783
50	LAND FORCES OPERATIONS SUPPORT.....	1,110,156 1,110,156
60	AVIATION ASSETS.....	1,795,522 1,770,522
LAND FORCES READINESS		
70	FORCE READINESS OPERATIONS SUPPORT.....	7,442,976 7,370,376
80	LAND FORCES SYSTEMS READINESS.....	580,921 560,921
90	LAND FORCES DEPOT MAINTENANCE.....	1,257,959 1,297,959
100	MEDICAL READINESS.....	1,102,964 1,102,964
LAND FORCES READINESS SUPPORT		
110	BASE OPERATIONS SUPPORT.....	8,878,603 8,863,153
120	FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION..	4,051,869 4,501,542
130	MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	289,891 289,891
140	ADDITIONAL ACTIVITIES.....	526,517 451,517
160	RESET.....	397,196 352,196
COMBATANT COMMAND SUPPORT		
170	US AFRICA COMMAND.....	384,791 457,131
180	US EUROPEAN COMMAND.....	293,932 299,182
190	US SOUTHERN COMMAND.....	196,726 202,101
200	US FORCES KOREA.....	67,052 67,052
210	CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	621,836 621,836
220	CYBER SPACE ACTIVITIES - CYBERSECURITY.....	629,437 629,437

TOTAL, BUDGET ACTIVITY 1.....		36,846,243 37,070,831

44A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
BUDGET ACTIVITY 2: MOBILIZATION		
230 MOBILITY OPERATIONS		
230 STRATEGIC MOBILITY.....	353,967	353,967
240 ARMY PREPOSITIONED STOCKS.....	381,192	381,192
250 INDUSTRIAL PREPAREDNESS.....	3,810	3,810
TOTAL, BUDGET ACTIVITY 2.....	738,969	738,969
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
260 ACCESSION TRAINING		
260 OFFICER ACQUISITION.....	163,568	163,568
270 RECRUIT TRAINING.....	75,140	75,140
280 ONE STATION UNIT TRAINING.....	81,274	81,274
290 SENIOR RESERVE OFFICERS TRAINING CORPS.....	520,973	521,623
300 BASIC SKILL AND ADVANCED TRAINING		
300 SPECIALIZED SKILL TRAINING.....	998,869	993,869
310 FLIGHT TRAINING.....	1,309,556	1,309,556
320 PROFESSIONAL DEVELOPMENT EDUCATION.....	218,651	218,651
330 TRAINING SUPPORT.....	616,380	608,380
340 RECRUITING AND OTHER TRAINING AND EDUCATION		
340 RECRUITING AND ADVERTISING.....	683,569	683,569
350 EXAMINING.....	169,442	169,442
360 OFF-DUTY AND VOLUNTARY EDUCATION.....	214,923	214,923
370 CIVILIAN EDUCATION AND TRAINING.....	220,589	217,789
380 JUNIOR RESERVE OFFICERS TRAINING CORPS.....	187,569	190,569
TOTAL, BUDGET ACTIVITY 3.....	5,460,503	5,448,353
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
400 LOGISTICS OPERATIONS		
400 SERVICEWIDE TRANSPORTATION.....	684,562	672,562
410 CENTRAL SUPPLY ACTIVITIES.....	808,895	808,895
420 LOGISTICS SUPPORT ACTIVITIES.....	767,053	767,053
430 AMMUNITION MANAGEMENT.....	469,038	469,038
440 SERVICEWIDE SUPPORT		
440 ADMINISTRATION.....	488,535	481,535
450 SERVICEWIDE COMMUNICATIONS.....	1,952,742	1,954,832
460 MANPOWER MANAGEMENT.....	323,273	323,273

47 21

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
470 OTHER PERSONNEL SUPPORT.....	663,602	667,902
480 OTHER SERVICE SUPPORT.....	2,004,981	1,986,381
490 ARMY CLAIMS ACTIVITIES.....	180,178	180,178
500 REAL ESTATE MANAGEMENT.....	269,009	272,509
510 FINANCIAL MANAGEMENT AND AUDIT READINESS.....	437,940	437,940
520 INTERNATIONAL MILITARY HEADQUARTERS.....	482,571	482,571
530 MISC. SUPPORT OF OTHER NATIONS.....	29,670	29,670
OTHER PROGRAMS		
CLASSIFIED PROGRAMS.....	2,008,633	2,033,533
TOTAL, BUDGET ACTIVITY 4.....	11,570,682	11,567,872
P.L. 115-68 IMPLEMENTATION.....	---	250
ARMY IDENTIFIED POST AFGHANISTAN DECREASE.....	---	-250,000
TRANSPORTATION COMMAND WORKING CAPITAL FUND.....	---	35,800
MINIMUM WAGE INCREASE.....	---	79,000
ELECTRIC VEHICLE INFRASTRUCTURE PROGRAM.....	---	50,000
FUEL.....	---	192,000
RED HILL.....	---	83,028
TOTAL, OPERATION AND MAINTENANCE, ARMY.....	54,616,397	55,016,103

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
111 MANEUVER UNITS	3,563,856	3,518,856
Unjustified growth		-20,000
Program decrease unaccounted for		-25,000
114 THEATER LEVEL ASSETS	2,753,783	2,703,783
Unjustified growth		-50,000
116 AVIATION ASSETS	1,795,522	1,770,522
Unjustified growth		-25,000
121 FORCE READINESS OPERATIONS SUPPORT	7,442,976	7,370,376
Program increase - camouflage		20,000
Program increase - human optimization		5,000
Program increase - holistic health and fitness		1,500
Program increase - INDOPACOM Pacific multi-domain training and experimentation capability		900
Unjustified growth		-70,000
Program decrease unaccounted for		-30,000
122 LAND FORCES SYSTEMS READINESS	580,921	560,921
Unjustified growth		-20,000
123 LAND FORCES DEPOT MAINTENANCE	1,257,959	1,297,959
Program increase - post production software support		40,000
131 BASE OPERATIONS SUPPORT	8,878,603	8,863,153
Program increase - PFAS remediation activities		7,350
Program increase - renaming institutions		1,000
Program increase - AFFF disposal		1,200
Program decrease unaccounted for		-25,000
132 FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION	4,051,869	4,501,542
Program increase		276,673
Program increase - VOLAR barracks renovation		73,000
Program increase - United States Military Academy		50,000
Program increase - National Defense University		50,000
135 ADDITIONAL ACTIVITIES	526,517	451,517
Unjustified growth - Afghanistan reconciliation		-15,000
Unjustified growth		-60,000
137 RESET	397,196	352,196
Unjustified growth		-45,000
141 US AFRICA COMMAND	384,791	457,131
Program increase - P.L. 115-68		340
Program increase - natural resource management		5,000
Program increase - ISR		67,000

O-1	Budget Request	Final Bill
142 US EUROPEAN COMMAND	293,932	299,182
Program increase - P.L. 115-68		250
Program increase - natural resource management		5,000
143 US SOUTHERN COMMAND	196,726	202,101
Program increase - P.L. 115-68		375
Program increase - natural resource management		5,000
314 SENIOR RESERVE OFFICERS TRAINING CORPS	520,973	521,623
Program increase - ROTC helicopter training program		650
321 SPECIALIZED SKILL TRAINING	998,869	993,869
Unjustified growth		-5,000
324 TRAINING SUPPORT	616,380	608,380
Unjustified growth		-8,000
334 CIVILIAN EDUCATION AND TRAINING	220,589	217,789
Unjustified growth		-2,800
335 JUNIOR RESERVE OFFICERS TRAINING CORPS	187,569	190,569
Program increase - JROTC STEM training and education		3,000
421 SERVICEWIDE TRANSPORTATION	684,562	672,562
Unjustified growth		-12,000
431 ADMINISTRATION	488,535	481,535
Unjustified growth		-7,000
432 SERVICEWIDE COMMUNICATIONS	1,952,742	1,954,832
Program increase - alternatives to GPS		10,000
Program increase - Automated Biometrics Identity System		2,090
Program decrease unaccounted for		-10,000
434 OTHER PERSONNEL SUPPORT	663,602	667,902
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		4,300
435 OTHER SERVICE SUPPORT	2,004,981	1,986,381
Program increase - Capitol Fourth		1,400
Program decrease - Army Futures Command		-20,000
437 REAL ESTATE MANAGEMENT	269,009	272,509
Program increase - real estate inventory tool		3,500
411 OTHER PROGRAMS	2,008,633	2,033,533
Classified adjustment		6,900
Program increase - SOUTHCOM ISR		18,000

(44E)

O-1	Budget Request	Final Bill
TRANSPORTATION COMMAND WORKING CAPITAL FUND		35,800
MINIMUM WAGE INCREASES		79,000
ELECTRIC VEHICLE INFRASTRUCTURE PROGRAM		50,000
FUEL		192,000
RED HILL		83,028
P.L. 115-68 IMPLEMENTATION		250
ARMY IDENTIFIED POST AFGHANISTAN DECREASES		-250,000

(44F)

OPERATION AND MAINTENANCE, NAVY

The agreement provides \$62,480,035,000 for Operation and Maintenance, Navy,
as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (45A-F)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, NAVY		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10 MISSION AND OTHER FLIGHT OPERATIONS.....	6,264,654	6,219,654
20 FLEET AIR TRAINING.....	2,465,007	2,433,007
30 AVIATION TECHNICAL DATA AND ENGINEERING SERVICES.....	55,140	55,140
40 AIR OPERATIONS AND SAFETY SUPPORT.....	197,904	197,904
50 AIR SYSTEMS SUPPORT.....	1,005,932	1,000,732
60 AIRCRAFT DEPOT MAINTENANCE.....	1,675,356	1,660,356
70 AIRCRAFT DEPOT OPERATIONS SUPPORT.....	65,518	65,518
80 AVIATION LOGISTICS.....	1,460,546	1,460,546
SHIP OPERATIONS		
90 MISSION AND OTHER SHIP OPERATIONS.....	5,858,028	5,849,345
100 SHIP OPERATIONS SUPPORT AND TRAINING.....	1,154,696	1,129,696
110 SHIP DEPOT MAINTENANCE.....	10,300,078	10,283,852
120 SHIP DEPOT OPERATIONS SUPPORT.....	2,188,454	2,118,454
COMBAT OPERATIONS/SUPPORT		
130 COMBAT COMMUNICATIONS.....	1,551,846	1,521,846
140 SPACE SYSTEMS AND SURVEILLANCE.....	327,251	327,251
150 WARFARE TACTICS.....	798,082	801,082
160 OPERATIONAL METEOROLOGY AND OCEANOGRAPHY.....	447,486	447,486
170 COMBAT SUPPORT FORCES.....	2,250,756	2,223,756
180 EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT....	192,968	192,968
190 COMBATANT COMMANDERS CORE OPERATIONS.....	61,614	66,214
200 COMBATANT COMMANDERS DIRECT MISSION SUPPORT.....	198,596	346,566
210 MILITARY INFORMATION SUPPORT OPERATIONS.....	8,984	36,984
220 CYBERSPACE ACTIVITIES.....	565,926	557,926
WEAPONS SUPPORT		
230 FLEET BALLISTIC MISSILE.....	1,476,247	1,476,247
240 WEAPONS MAINTENANCE.....	1,538,743	1,508,743
250 OTHER WEAPON SYSTEMS SUPPORT.....	592,357	592,357

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

BASE SUPPORT		
260 ENTERPRISE INFORMATION.....	734,970	1,473,970
270 SUSTAINMENT, RESTORATION AND MODERNIZATION.....	2,961,937	3,417,937
280 BASE OPERATING SUPPORT.....	4,826,314	4,861,304
TOTAL, BUDGET ACTIVITY 1.....	51,225,390	52,326,841

BUDGET ACTIVITY 2: MOBILIZATION		
290 SHIP PREPOSITIONING AND SURGE.....	457,015	457,015
300 READY RESERVE FORCE.....	645,522	645,522
310 SHIP ACTIVATIONS/INACTIVATIONS.....	353,530	343,478
320 EXPEDITIONARY HEALTH SERVICES SYSTEMS.....	149,384	149,384
330 COAST GUARD SUPPORT.....	20,639	20,639
TOTAL, BUDGET ACTIVITY 2.....	1,626,090	1,616,038

BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
340 OFFICER ACQUISITION.....	172,913	172,913
350 RECRUIT TRAINING.....	13,813	13,813
360 RESERVE OFFICERS TRAINING CORPS.....	167,152	167,152
BASIC SKILLS AND ADVANCED TRAINING		
370 SPECIALIZED SKILL TRAINING.....	1,053,104	1,053,104
380 PROFESSIONAL DEVELOPMENT EDUCATION.....	311,209	308,209
390 TRAINING SUPPORT.....	306,302	306,302
RECRUITING, AND OTHER TRAINING AND EDUCATION		
400 RECRUITING AND ADVERTISING.....	205,219	209,519
410 OFF-DUTY AND VOLUNTARY EDUCATION.....	79,053	79,053
420 CIVILIAN EDUCATION AND TRAINING.....	109,754	109,754
430 JUNIOR ROTC.....	57,323	62,323
TOTAL, BUDGET ACTIVITY 3.....	2,475,842	2,482,142

BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
SERVICEWIDE SUPPORT		
440 ADMINISTRATION.....	1,268,961	1,285,701
450 CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT.....	212,952	210,452
460 MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....	562,546	560,046
470 MEDICAL ACTIVITIES.....	285,436	285,936

(45B)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
LOGISTICS OPERATIONS AND TECHNICAL SUPPORT		
480 SERVICEWIDE TRANSPORTATION.....	217,782	217,782
500 PLANNING, ENGINEERING, AND PROGRAM SUPPORT.....	479,480	479,480
510 ACQUISITION, LOGISTICS, AND OVERSIGHT.....	741,045	741,045
INVESTIGATIONS AND SECURITY PROGRAMS		
520 INVESTIGATIVE AND SECURITY SERVICES.....	738,187	736,687
OTHER PROGRAMS		
CLASSIFIED PROGRAMS.....	607,517	606,517
TOTAL, BUDGET ACTIVITY 4.....	5,113,906	5,123,646
UNJUSTIFIED GROWTH.....	---	-70,000
P.L. 115-68 IMPLEMENTATION.....	---	260
TRANSPORTATION COMMAND WORKING CAPITAL FUND.....	---	10,900
MINIMUM WAGE INCREASE.....	---	51,500
ELECTRIC VEHICLE INFRASTRUCTURE PROGRAM.....	---	5,000
FUEL.....	---	494,400
RED HILL.....	---	417,708
CHILCARE FEE.....	---	21,600
TOTAL, OPERATION AND MAINTENANCE, NAVY.....	60,441,228	62,480,035

(450)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A MISSION AND OTHER FLIGHT OPERATIONS	6,264,654	6,219,654
Unjustified growth		-45,000
1A2A FLEET AIR TRAINING	2,465,007	2,433,007
Unjustified growth		-32,000
1A4N AIR SYSTEMS SUPPORT	1,005,932	1,000,732
Unjustified growth		-5,200
1A5A AIRCRAFT DEPOT MAINTENANCE	1,675,356	1,660,356
Unjustified growth		-15,000
1B1B MISSION AND OTHER SHIP OPERATIONS	5,858,028	5,849,345
Program increase - cruiser sustainment		22,417
Program increase - USS FORT WORTH, USS DETROIT, USS LITTLE ROCK		18,900
Unjustified growth		-50,000
1B2B SHIP OPERATIONS SUPPORT AND TRAINING	1,154,696	1,129,696
Unjustified growth		-25,000
1B4B SHIP DEPOT MAINTENANCE	10,300,078	10,283,852
Program increase - cruiser sustainment		12,944
Program increase - USS FORT WORTH, USS DETROIT, USS LITTLE ROCK		30,830
Program increase - USS CONNECTICUT repairs		40,000
Unjustified growth		-100,000
1B5B SHIP DEPOT OPERATIONS SUPPORT	2,188,454	2,118,454
Unjustified growth		-70,000
1C1C COMBAT COMMUNICATIONS AND ELECTRONIC WARFARE	1,551,846	1,521,846
Program decrease unaccounted for		-30,000
1C4C WARFARE TACTICS	798,082	801,082
Program increase - INDOPACOM Pacific Multi-Domain training and experimentation capability		3,000
1C6C COMBAT SUPPORT FORCES	2,250,756	2,223,756
Program decrease unaccounted for		-27,000
1CCH COMBATANT COMMANDERS CORE OPERATIONS	61,614	66,214
Program increase - Asia Pacific Regional Initiative		4,600
1CCM COMBATANT COMMANDERS DIRECT MISSION SUPPORT	198,596	346,566
Program increase - P.L. 115-68		1,000
Program increase - INDOPACOM wargaming analytical tools		88,000
Program increase - INDOPACOM mission partner environment		50,170
Program increase - INDOPACOM future fusion centers		3,300
Program increase - INDOPACOM Pacific Movement Coordination Center		500
Program increase - natural resource management		5,000

(45D)

O-1	Budget Request	Final Bill
1CCS MILITARY INFORMATION SUPPORT OPERATIONS	8,984	36,984
Program increase - INDOPACOM military information support operations		28,000
1CCY CYBERSPACE ACTIVITIES	565,926	557,926
Unjustified growth		-8,000
1D4D WEAPONS MAINTENANCE	1,538,743	1,508,743
Unjustified growth		-30,000
BSIT ENTERPRISE INFORMATION TECHNOLOGY	734,970	1,473,970
Transfer from RDTE,N line 255/Deny transfer to RDTE,N for BA08 software pilot program		778,000
Program increase - form modernization		5,000
Unjustified growth		-44,000
BSM1 SUSTAINMENT, RESTORATION & MODERNIZATION	2,961,937	3,417,937
Program increase - USNA seawall		31,000
Program increase - seismic and fire protection		20,000
Program increase		195,000
Program increase - for public shipyards/SIOP		200,000
Program increase - USNA infrastructure programs		10,000
BSS1 BASE OPERATING SUPPORT	4,826,314	4,861,304
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		990
Program increase - SIOP		64,000
Unjustified growth		-30,000
2B2C SHIP ACTIVATIONS/INACTIVATIONS	353,530	343,478
Program decrease - reverse decommissionings		-4,500
Program decrease - reverse cruiser decommissionings		-5,552
3B3K PROFESSIONAL DEVELOPMENT EDUCATION	311,209	308,209
Program decrease unaccounted for		-3,000
3C1L RECRUITING AND ADVERTISING	205,219	209,519
Program increase - U.S. Naval Sea Cadets		4,300
3C5L JUNIOR ROTC	57,323	62,323
Program increase - JROTC STEM training and education		5,000
4A1M ADMINISTRATION	1,268,961	1,285,701
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		1,740
Program increase - Naval Audit Service		25,000
Unjustified growth		-10,000
4A3M CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT	212,952	210,452
Unjustified growth		-2,500
4A4M MILITARY MANPOWER AND PERSONNEL MANAGEMENT	562,546	560,046
Unjustified growth		-2,500

(USE)

O-1	Budget Request	Final Bill
4A8M MEDICAL ACTIVITIES	285,436	285,936
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		500
4C1P INVESTIGATIVE AND SECURITY SERVICES	738,187	736,687
Unjustified growth		-1,500
999 OTHER PROGRAMS	607,517	606,517
Classified adjustment		-1,000
FUEL		494,400
RED HILL		417,708
TRANSPORTATION COMMAND WORKING CAPITAL FUND		10,900
MINIMUM WAGE INCREASES		51,500
CHILDCARE FEE		21,600
ELECTRIC VEHICLE INFRASTRUCTURE/LEASE PROGRAM		5,000
UNJUSTIFIED GROWTH		-70,000
P.L. 115-68 IMPLEMENTATION		260

45 F)

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 class of apprentices in the fiscal year 2023 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.

BARBERS POINT ELECTRICAL INFRASTRUCTURE

The agreement directs the Secretary of the Navy to provide a briefing to the congressional defense committees, not later than June 1, 2022, on any upgrades to the electrical utility system on Barbers Point that would be necessary to facilitate its divestiture and transfer from the Navy to the local utility provider on Oahu, Hawaii. The briefing shall identify the funding requirements by appropriation for the design costs and electrical utility infrastructure upgrades, as well as customer connections to the new lines. The Secretary shall also provide any statutory authority required to support this project.

RQ-21A

The agreement directs the Secretary of the Navy to report to the congressional defense committees not later than 120 days after enactment of this Act to provide a report on the status of the RQ-21A fleet and its possible replacement. The report shall include the analysis of intelligence, surveillance, and reconnaissance requirements within the new roles, missions, and concepts of operations for the Marine Corps described in the Commandant's Planning Guidance and Force Design 2030 that was used to inform the

decision; the requirements changes that necessitate the divestiture; and the timeline for divestiture of the RQ-21A fleet. The report shall also include an update on the costs of alternative platforms to replace the RQ-21A and associated cost to upgrade the current fleet to meet the requirements.

OVENS

There are concerns that the Navy is not prioritizing certain quality of life issues in its carrier fleet, specifically the degradation of ovens on the USS George H. W. Bush. The agreement directs the Secretary of the Navy to expedite the repair or replacement of these ovens and to conduct a review of the material condition of all surface ship galleys. This report, which should be submitted to the congressional defense committees not later than 90 days after enactment of this Act, should identify the costs for repairing all galley equipment of concern, if funds are included in the fiscal year 2022 or fiscal year 2023 ship maintenance budget and what, if any, potential barriers there may exist to their repair.

OPERATION AND MAINTENANCE, MARINE CORPS

The agreement provides \$9,185,430,000 for Operation and Maintenance, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (48A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, MARINE CORPS		
BUDGET ACTIVITY 1: OPERATING FORCES		
10	EXPEDITIONARY FORCES	
	OPERATIONAL FORCES.....	1,587,456 1,609,956
20	FIELD LOGISTICS.....	1,532,630 1,522,630
30	DEPOT MAINTENANCE.....	215,949 215,949
40	USMC PREPOSITIONING	
	MARITIME PREPOSITIONING.....	107,969 107,969
50	COMBAT OPERATIONS/SUPPORT	
	CYBERSPACE ACTIVITIES.....	233,486 233,486
60	BASE SUPPORT	
	SUSTAINMENT, RESTORATION & MODERNIZATION.....	1,221,117 1,354,316
70	BASE OPERATING SUPPORT.....	2,563,278 2,549,308
	TOTAL, BUDGET ACTIVITY 1.....	7,461,885 7,593,614
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
80	ACCESSION TRAINING	
	RECRUIT TRAINING.....	24,729 24,729
90	OFFICER ACQUISITION.....	1,208 1,208
100	BASIC SKILLS AND ADVANCED TRAINING	
	SPECIALIZED SKILLS TRAINING.....	110,752 110,752
110	PROFESSIONAL DEVELOPMENT EDUCATION.....	61,539 61,539
120	TRAINING SUPPORT.....	490,975 486,475
130	RECRUITING AND OTHER TRAINING EDUCATION	
	RECRUITING AND ADVERTISING.....	223,643 223,643
140	OFF-DUTY AND VOLUNTARY EDUCATION.....	49,369 49,369
150	JUNIOR ROTC.....	26,065 29,065
	TOTAL, BUDGET ACTIVITY 3.....	988,280 986,780
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
160	SERVICEWIDE SUPPORT	
	SERVICEWIDE TRANSPORTATION.....	100,475 100,475
170	ADMINISTRATION.....	410,729 410,799
	OTHER PROGRAMS	
	CLASSIFIED PROGRAMS.....	63,422 63,422
	TOTAL, BUDGET ACTIVITY 4.....	574,626 574,696

48A

(DOLLARS IN THOUSANDS)

BUDGET
REQUEST

FINAL
BILL

PROGRAM INCREASE - P.L. 115-68 IMPLEMENTATION.....	---	340
UNJUSTIFIED GROWTH.....	---	26,000
TRANSPORTATION COMMAND WORKING CAPITAL FUND.....	---	10,000
ELECTRIC VEHICLE INFRASTRUCTURE PROGRAM.....	---	5,000
FUEL.....	---	40,700
CHILCARE FEE.....	---	300

TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS.....	9,024,791	9,185,430
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48B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A OPERATIONAL FORCES	1,587,456	1,609,956
Program increase - hearing enhancement and protection headsets		17,500
Program increase - autonomous robotic targets		5,000
1A2A FIELD LOGISTICS	1,532,630	1,522,630
Unjustified growth		-10,000
BSM1 SUSTAINMENT, RESTORATION & MODERNIZATION	1,221,117	1,354,316
Program increase		131,699
Program increase - AFFF removal repairs		1,500
BSS1 BASE OPERATING SUPPORT	2,563,278	2,549,308
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		5,530
Program increase - AFFF disposal		500
Unjustified growth		-20,000
3B4D TRAINING SUPPORT	490,975	486,475
Unjustified growth		-4,500
3C3F JUNIOR ROTC	26,065	29,065
Program increase - JROTC STEM training and education		3,000
4A4G ADMINISTRATION	410,729	410,799
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		70
UNJUSTIFIED GROWTH		-26,000
P.L. 115-68 IMPLEMENTATION		340
FUEL		40,700
TRANSPORTATION COMMAND WORKING CAPITAL FUND		10,000
CHILDCARE FEE		300
ELECTRIC VEHICLE INFRASTRUCTURE AND LEASE PROGRAM		5,000

(48)

OPERATION AND MAINTENANCE, AIR FORCE

The agreement provides \$55,103,948,000 for Operation and Maintenance, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (49A-F)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, AIR FORCE		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10 PRIMARY COMBAT FORCES.....	706,860	614,860
20 COMBAT ENHANCEMENT FORCES.....	2,382,448	2,453,264
30 AIR OPERATIONS TRAINING (OJT, MAINTAIN SKILLS).....	1,555,320	1,564,830
40 DEPOT PURCHASE EQUIPMENT MAINTENANCE.....	3,661,762	3,643,762
50 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION...	3,867,114	4,204,844
60 CYBERSPACE SUSTAINMENT.....	179,568	179,568
70 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	8,457,653	8,652,733
80 FLYING HOUR PROGRAM.....	5,646,730	5,724,650
90 BASE SUPPORT.....	9,846,037	9,786,015
COMBAT RELATED OPERATIONS		
100 GLOBAL C3I AND EARLY WARNING.....	979,705	969,705
110 OTHER COMBAT OPS SPT PROGRAMS.....	1,418,515	1,348,515
120 CYBERSPACE ACTIVITIES.....	864,761	864,761
SPACE OPERATIONS		
150 SPACE CONTROL SYSTEMS.....	13,223	13,223
COCOM		
160 US NORTHCOM/NORAD.....	196,774	202,339
170 US STRATCOM.....	475,015	524,445
180 US CYBERCOM.....	389,663	423,213
190 US CENTCOM.....	372,354	366,539
200 US SOCOM.....	28,733	29,623
210 US TRANSCOM.....	---	250
220 CENTCOM CYBERSPACE SUSTAINMENT.....	1,289	1,289
230 USSPACECOM.....	272,601	268,109
OPERATING FORCES		
CLASSIFIED PROGRAMS.....	1,454,383	1,458,233
TOTAL, BUDGET ACTIVITY 1.....	42,770,508	43,294,770

495

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
BUDGET ACTIVITY 2: MOBILIZATION		
240 MOBILITY OPERATIONS		
AIRLIFT OPERATIONS	2,422,784	2,392,784
250 MOBILIZATION PREPAREDNESS	667,851	667,851
TOTAL, BUDGET ACTIVITY 2	3,090,635	3,060,635
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
ACCESSION TRAINING		
260 OFFICER ACQUISITION	156,193	156,193
270 RECRUIT TRAINING	26,072	26,072
280 RESERVE OFFICER TRAINING CORPS (ROTC)	127,693	127,693
BASIC SKILLS AND ADVANCED TRAINING		
290 SPECIALIZED SKILL TRAINING	491,286	491,286
300 FLIGHT TRAINING	718,742	718,742
310 PROFESSIONAL DEVELOPMENT EDUCATION	302,092	306,092
320 TRAINING SUPPORT	162,165	154,165
RECRUITING, AND OTHER TRAINING AND EDUCATION		
330 RECRUITING AND ADVERTISING	171,339	171,339
340 EXAMINING	8,178	8,178
350 OFF DUTY AND VOLUNTARY EDUCATION	236,760	236,760
360 CIVILIAN EDUCATION AND TRAINING	306,602	306,602
370 JUNIOR ROTC	65,940	70,940
TOTAL, BUDGET ACTIVITY 3	2,773,062	2,774,062
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
LOGISTICS OPERATIONS		
380 LOGISTICS OPERATIONS	1,062,709	1,050,731
390 TECHNICAL SUPPORT ACTIVITIES	169,957	169,957
ADMIN SERVICEWIDE ACTIVITIES		
400 ADMINISTRATION	1,005,827	1,072,104
410 SERVICEWIDE COMMUNICATIONS	31,054	31,054
420 OTHER SERVICEWIDE ACTIVITIES	1,470,757	1,469,547
430 CIVIL AIR PATROL	29,128	47,300

49B

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
450 INTERNATIONAL SUPPORT.....	81,118	81,118
CLASSIFIED PROGRAMS.....	1,391,720	1,381,620
TOTAL, BUDGET ACTIVITY 4.....	5,242,270	5,303,431
HISTORICAL UNOBLIGATION.....	---	-75,000
UNJUSTIFIED GROWTH.....	---	-50,000
P.L. 115-68 IMPLEMENTATION.....	---	750
TRANSPORTATION COMMAND WORKING CAPITAL FUND.....	---	201,900
MINIMUM WAGE INCREASE.....	---	33,000
ELECTRIC VEHICLE INFRASTRUCTURE PROGRAM.....	---	10,000
FUEL.....	---	539,800
RED HILL.....	---	8,300
CHILCARE FEE.....	---	2,300
	=====	=====
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE.....	53,876,475	55,103,948
	=====	=====

445

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
11A PRIMARY COMBAT FORCES	706,860	614,860
Unjustified growth		-45,000
Air Force requested transfer to address CENTCOM requirements		-47,000
11C COMBAT ENHANCEMENT FORCES	2,382,448	2,453,264
Transfer from RDTE,AF lines 317, 318, 319		70,716
Air Force requested transfer to address CENTCOM requirements		100,100
Unjustified growth		-100,000
11D AIR OPERATIONS TRAINING	1,555,320	1,564,830
Program increase - INDOPACOM multi-domain training and experimentation capability		22,110
Program increase - adversary air		10,500
Unjustified growth		-20,000
Air Force requested transfer to address CENTCOM requirements		-3,100
11M DEPOT PURCHASE EQUIPMENT MAINTENANCE	3,661,762	3,643,762
Unjustified growth		-18,000
11R REAL PROPERTY MAINTENANCE	3,867,114	4,204,844
Program increase		330,000
Program increase - US Air Force Academy		10,000
Air Force requested transfer to OP,AF line 9		-2,270
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	8,457,653	8,652,733
Program increase - F-35 sustainment		185,000
Program increase - A-10 sustainment		70,080
Unjustified growth		-60,000
11Y FLYING HOUR PROGRAM	5,646,730	5,724,650
Program increase - A-10 sustainment		77,920
11Z BASE SUPPORT	9,846,037	9,786,015
Program increase - cyber resiliency for NC3 bases		8,000
Air Force requested transfer for USAFE logistics requirements		6,978
Unjustified growth		-75,000
12A GLOBAL C3I AND EARLY WARNING	979,705	969,705
Unjustified growth		-10,000
12C OTHER COMBAT OPERATIONS SUPPORT PROGRAMS	1,418,515	1,348,515
Program increase - cyber resilience for the Pacific		5,000
Unjustified growth		-25,000
Air Force requested transfer to address CENTCOM requirements		-50,000
15C US NORTHCOM/NORAD	196,774	202,339
Program increase - implementation of P.L. 115-68		565
Program increase - natural resource management		5,000

49 D

O-1	Budget Request	Final Bill
15D US STRATCOM	475,015	524,445
Program increase - implementation of P.L. 115-68		250
Transfer from RDTE,AF lines 317, 318, 319		49,180
15E US CYBERCOM	389,663	423,213
Program increase - implementation of P.L. 115-68		250
Program increase - threat hunting platform		10,000
Program increase - cyber training		23,300
15F US CENTCOM	372,354	366,539
Program increase - implementation of P.L. 115-68		185
Program increase - natural resource management		10,000
Unjustified growth - OSC-I		-16,000
15G US SOCOM	28,733	29,623
Program increase - implementation of P.L. 115-68		890
15H US TRANSCOM	0	250
Program increase - implementation of P.L. 115-68		250
15X USSPACECOM	272,601	268,109
Program increase - implementation of P.L. 115-68		508
Unjustified growth		-5,000
CLASSIFIED PROGRAMS	1,454,383	1,458,233
Program increase - INDOPACOM mission partner environment		
BICES-X		3,850
21A AIRLIFT OPERATIONS	2,422,784	2,392,784
Program decrease unaccounted for		-30,000
32C PROFESSIONAL DEVELOPMENT EDUCATION	302,092	306,092
Program increase - Air University Center of Excellence		4,000
32D TRAINING SUPPORT	162,165	154,165
Unjustified growth		-8,000
33E JUNIOR ROTC	65,940	70,940
Program increase - JROTC STEM training and education		5,000
41A LOGISTICS OPERATIONS	1,062,709	1,050,731
Unjustified growth		-5,000
Air Force requested for USAFE logistics requirements		-6,978
42A ADMINISTRATION	1,005,827	1,072,104
Program increase - Implementation of the Independent Review		
Commission on Sexual Assault in the Military		7,190
Transfer from RDTE,AF lines 317, 318, 319		79,087
Unjustified growth		-20,000

49E

O-1	Budget Request	Final Bill
42G OTHER SERVICEWIDE ACTIVITIES	1,470,757	1,469,547
Program increase - Implementation of the Independent Review		
Commission on Sexual Assault in the Military		13,790
Unjustified growth		-15,000
42I CIVIL AIR PATROL CORPORATION	29,128	47,300
Program increase		18,172
43A SECURITY PROGRAMS	1,391,720	1,381,620
Classified adjustment		-10,100
FUEL		539,800
RED HILL		8,300
TRANSPORTATION COMMAND WORKING CAPITAL FUND		201,900
MINIMUM WAGE INCREASE		33,000
CHILDCARE FEE		2,300
ELECTRIC VEHICLE PROGRAMS		10,000
HISTORICAL UNOBLIGATED BALANCES		-75,000
TRAVEL - UNJUSTIFIED GROWTH		-50,000
P.L. 115-68 IMPLEMENTATION		750

49F

OPERATIONAL SUPPORT AIRLIFT

The agreement directs the Secretary of the Air Force to conduct a review prior to making any final divestment decision on the C-40 program, and submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that includes the number of C-40 missions flown over the past five fiscal years, to include detailed information on the purpose of each such mission; the types of missions and passengers; and where each mission originated and terminated. The report shall also include an assessment of the demand for C-40 missions over the next five fiscal years, how a reduction in the number of available aircraft will impact the missions, and the alternative modes of transportation the Air Force is considering to fulfill these types of requirements.

PILOT SHORTAGE

Despite support from Congress, the Air Force continues to fail to meet its annual pilot training goals. The fiscal year 2022 budget request does not provide adequate resources to meet proposed goals for pilot production, and there is continued concern that the Air Force will not meet its stated goals. In addition, the Service-identified barriers to pilot production, such as the ability to hire simulator instructors, have not been addressed by Air Force senior leaders. Therefore, the agreement directs the Secretary of the Air Force, or his designee, to brief the House and Senate Appropriations Committees not less than 45 days after enactment of this Act, on plans to align its future year budgets to resolve the pilot shortfall within the next five fiscal years. Further, the agreement directs the Commander of Air Education and Training Command to provide quarterly updates to the House and Senate Appropriations Committees beginning not later than 45 days after the enactment of this Act.

REPORT ON DIVESTMENT

The Secretary of the Air Force is directed to provide a report to the congressional defense committees, not later than 30 days after submission of the President's budget for fiscal year 2023, on any proposed divestments of the A-10 aircraft during the future years defense plan. The report shall describe any proposed divestments by fiscal year and location, anticipated mission and personnel impacts, proposed mitigations of mission, personnel, or force structure impacts, and the budget implications of such plan.

OPERATION AND MAINTENANCE, SPACE FORCE

The agreement provides \$3,435,212,000 for Operation and Maintenance, Space Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (52A-B)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, SPACE FORCE		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10 GLOBAL C3I & EARLY WARNING.....	495,615	490,615
20 SPACE LAUNCH OPERATIONS.....	185,700	185,700
30 SPACE OPERATIONS.....	611,269	607,769
40 EDUCATION & TRAINING.....	22,887	22,887
60 DEPOT MAINTENANCE.....	280,165	283,165
70 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION...	213,347	222,347
80 CONTRACTOR LOGISTICS & SYSTEM SUPPORT.....	1,158,707	1,177,707
90 SPACE OPERATIONS -BOS.....	143,520	143,520
CLASSIFIED PROGRAMS.....	172,755	174,755

TOTAL, BUDGET ACTIVITY 1.....	3,283,965	3,308,465
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
100 ADMINISTRATION.....	156,747	126,747

TOTAL, BUDGET ACTIVITY 4.....	156,747	126,747
=====		
TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE.....	3,440,712	3,435,212
=====		

52A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
12A GLOBAL C3I & EARLY WARNING	495,615	490,615
Unjustified growth		-5,000
13C SPACE OPERATIONS	611,269	607,769
Unjustified increase		-3,500
13M DEPOT MAINTENANCE	280,165	283,165
Program increase - weapons system sustainment		10,000
Unjustified growth		-7,000
13R MAINTENANCE OF REAL PROPERTY	213,347	222,347
Program increase		9,000
13W CONTRACTOR LOGISTICS & SYSTEM SUPPORT	1,158,707	1,177,707
Program increase - weapon system sustainment		25,000
Unjustified growth		-6,000
999 CLASSIFIED PROGRAMS	172,755	174,755
Classified adjustment		2,000
42A ADMINISTRATION	156,747	126,747
Unjustified growth		-30,000

52B

OPERATION AND MAINTENANCE, DEFENSE-WIDE

The agreement provides \$45,864,202,000 for Operation and Maintenance, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~ R

INSERT (S3A-G)

~~(INSERT PROJECT-LEVEL TABLE)~~ R

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, DEFENSE-WIDE		
BUDGET ACTIVITY 1: OPERATING FORCES		
10 JOINT CHIEFS OF STAFF.....	407,240	402,440
20 JOINT CHIEFS OF STAFF - CE2T2.....	554,634	568,634
30 JOINT CHIEFS OF STAFF - CYBER.....	8,098	8,098
SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT		
40 ACTIVITIES.....	2,044,479	2,039,693
50 SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES.....	45,851	45,851
60 SPECIAL OPERATIONS COMMAND INTELLIGENCE.....	1,614,757	1,631,319
70 SPECIAL OPERATIONS COMMAND MAINTENANCE.....	1,081,869	1,067,523
SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL		
80 HEADQUARTERS.....	180,042	178,801
90 SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT.....	1,202,060	1,189,538
100 SPECIAL OPERATIONS COMMAND THEATER FORCES.....	3,175,789	3,200,444
TOTAL, BUDGET ACTIVITY 1.....	10,314,819	10,332,341
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
130 DEFENSE ACQUISITION UNIVERSITY.....	171,607	171,607
140 JOINT CHIEFS OF STAFF.....	92,905	92,905
SPECIAL OPERATIONS COMMAND PROFESSIONAL DEVELOPMENT		
150 EDUCATION.....	31,669	32,105
TOTAL, BUDGET ACTIVITY 3.....	296,181	296,617
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
170 CIVIL MILITARY PROGRAMS.....	137,311	264,592
190 DEFENSE CONTRACT AUDIT AGENCY.....	618,526	606,526
200 DEFENSE CONTRACT AUDIT AGENCY - CYBER.....	3,984	3,984
220 DEFENSE CONTRACT MANAGEMENT AGENCY.....	1,438,296	1,433,296
230 DEFENSE CONTRACT MANAGEMENT AGENCY - CYBER.....	11,999	11,999
240 DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY.....	941,488	941,488
DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY -		
260 CYBER.....	9,859	9,859
270 DEFENSE HUMAN RESOURCES ACTIVITY.....	816,168	949,948
280 DEFENSE HUMAN RESOURCES ACTIVITY - CYBER.....	17,655	17,655
290 DEFENSE INFORMATION SYSTEMS AGENCY.....	1,913,734	1,923,309
310 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER.....	530,278	592,378
350 DEFENSE LEGAL SERVICES AGENCY.....	229,498	224,498

(52A)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
360 DEFENSE LOGISTICS AGENCY.....	402,864	427,264
370 DEFENSE MEDIA ACTIVITY.....	222,655	222,655
380 DEFENSE PERSONNEL ACCOUNTING AGENCY.....	130,174	130,174
390 DEFENSE SECURITY COOPERATION AGENCY.....	2,067,446	2,261,570
420 DEFENSE TECHNOLOGY SECURITY AGENCY.....	39,305	39,305
440 DEFENSE THREAT REDUCTION AGENCY.....	885,749	875,749
460 DEFENSE THREAT REDUCTION AGENCY - CYBER.....	36,736	36,736
470 DEPARTMENT OF DEFENSE EDUCATION ACTIVITY.....	3,138,345	3,233,845
490 MISSILE DEFENSE AGENCY.....	502,450	502,450
530 OFFICE OF THE LOCAL DEFENSE COMMUNITY COOPERATION - OSD.....	89,686	237,686
540 OFFICE OF THE SECRETARY OF DEFENSE.....	1,766,614	1,822,640
550 OFFICE OF THE SECRETARY OF DEFENSE - CYBER.....	32,851	49,575
560 SPACE DEVELOPMENT AGENCY.....	53,851	53,851
570 WASHINGTON HEADQUARTERS SERVICES.....	369,698	367,198
CLASSIFIED PROGRAMS.....	17,900,146	17,870,114
TOTAL, BUDGET ACTIVITY 4.....	34,307,366	35,110,344
PROGRAM INCREASE: VIETNAM DIOXIN REMEDIATION.....	---	15,000
P.L. 115-68 IMPLEMENTATION.....	---	2,100
TRANSPORTATION COMMAND WORKING CAPITAL FUND.....	---	30,000
MINIMUM WAGE INCREASE.....	---	3,800
FUEL.....	---	54,000
CLIMATE PROGRAMS.....	---	10,000
COMMISSIONS.....	---	10,000
TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE.....	44,918,366	45,864,202

1535

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1PL1 JOINT CHIEFS OF STAFF	407,240	402,440
Unjustified growth		-6,500
Program increase - Transportation Working Capital Fund		1,700
8PL1 JOINT CHIEFS OF STAFF - CE2T2	554,634	568,634
Program increase - AFRICOM joint exercise program		18,000
Unjustified growth		-4,000
1PL6 SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	2,044,479	2,039,693
Classified adjustment		1,000
Program increase - AGMS acceleration		3,310
SOCOM requested realignment to SAG 1PLU and 1PLR for civilian personnel costs		-9,096
1PLU SPECIAL OPERATIONS COMMAND INTELLIGENCE	1,614,757	1,631,319
Program increase - DOMEX		10,000
SOCOM requested realignment from SAG 1PL6 for civilian personnel costs		9,064
Underexecution of JTWS		-2,502
1PL7 SPECIAL OPERATIONS COMMAND MAINTENANCE	1,081,869	1,067,523
Program increase - MC-12		1,102
Program increase - modernized forward-look sonar		900
Program decrease - excess to need		-16,348
1PLM SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS	180,042	178,801
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		130
SOCOM requested realignment to SAG 1PLR for civilian personnel costs		-1,371
1PLV SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	1,202,060	1,189,538
Program increase - identity management		15,000
Underexecution of C4IAS		-27,303
SOCOM requested realignments to SAG 3EV8 for civilian personnel costs		-219
1PLR SPECIAL OPERATIONS COMMAND THEATER FORCES	3,175,789	3,200,444
Program increase - tactical rinse system for aircraft		2,500
SOCOM requested realignment from SAG 1PLM for civilian personnel costs		3,717
Program increase - subterranean training facility		9,000
Program increase - Transportation Command Working Capital Fund		28,400
Transfer from Section 1202		-4,000
Transfer to USSOCOM Information Operations		4,000
Overestimation of flying hours		-9,640
Overestimation of 127e		-6,791
SOCOM requested realignment from 127e for civilian personnel costs		-2,531

53C

O-1	Budget Request	Final Bill
3EV8 SPECIAL OPERATIONS COMMAND PROFESSIONAL DEVELOPMENT EDUCATION	31,669	32,105
SOCOM requested realignment from SAG 1PLV for civilian personnel costs		436
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
4GT3 CIVIL MILITARY PROGRAMS	137,311	264,592
Program increase - National Guard Youth Challenge		85,281
Program increase - Starbase		42,000
4GT6 DEFENSE CONTRACT AUDIT AGENCY	618,526	606,526
Unjustified growth		-12,000
4GT0 DEFENSE CONTRACT MANAGEMENT AGENCY	1,438,296	1,433,296
Unjustified growth		-5,000
4GTE DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY	941,488	941,488
Program increase - commercial FOCI analytic tools		10,000
Program decrease unaccounted for		-10,000
4GT8 DEFENSE HUMAN RESOURCES ACTIVITY	816,168	949,948
Program increase - DLNSEO		15,000
Program increase - Language Flagship program		6,000
Program increase - Special Victims' Counsel		47,000
Program increase - Defense Suicide Prevention Office		3,000
Program increase - Sexual Assault Prevention and Response		7,500
Program increase - Defense Language Training Centers		20,000
Program increase - EASE		10,000
Program increase - Beyond Yellow Ribbon		22,000
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		7,280
Unjustified growth		-4,000
4GT9 DEFENSE INFORMATION SYSTEMS AGENCY	1,913,734	1,923,309
Transfer from RDTE,DW line 203 JAIC for proper execution - Responsible AI (RAI)		4,250
Transfer from RDTE,DW line 203 JAIC for proper execution - strategy and policy		4,775
Transfer to RDTE,DW line 203 for proper execution - JCF/Infrastructure		19,800
Transfer from RDTE,DW line 203 for proper execution - PB&A		750
Unjustified growth		-20,000
4GU9 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER	530,278	592,378
Program increase - hardening DOD networks		62,100
4GTA DEFENSE LEGAL SERVICES AGENCY	229,498	224,498
Historical unobligated balances		-5,000
4GTB DEFENSE LOGISTICS AGENCY	402,864	427,264
Program increase - Procurement Technical Assistance Program		24,400

53D)

O-1	Budget Request	Final Bill
4GTD DEFENSE SECURITY COOPERATION AGENCY	2,067,446	2,261,570
Program increase - International Security Cooperation Programs with countries in AFRICOM		59,571
Program increase - International Security Cooperation Programs - CENTCOM - Jordan		12,699
Program increase - International Security Cooperation Programs - EUCOM - Baltic Security Initiative		75,140
Program increase - International Security Cooperation Programs - EUCOM - Georgia		32,398
Program increase - International Security Cooperation Programs - EUCOM - Poland		28,740
Program increase - International Security Cooperation Programs - EUCOM - Romania		23,382
Program increase - International Security Cooperation Programs - EUCOM - Bulgaria		12,021
Program increase - International Security Cooperation Programs women's programs		3,000
Program increase - International Security Cooperation Programs human rights training		1,000
Program increase - Ukraine Security Assistance Initiative		50,000
Program increase - Regional Centers		4,000
Program increase - Regional Centers cybersecurity capacity building		3,000
Program increase - Arctic Regional Center		10,000
Program increase - Institute for Security Governance cybersecurity capacity building		5,000
Program increase - Irregular Warfare Functional Center		10,000
Program increase - Northern Triangle border security		8,000
International Security Cooperation Programs - CENTCOM program decrease		-785
Lift and Sustain program adjustment		-125,000
Transfer from Regional Defense Fellowship Program to Regional Defense Combating Terrorism and Irregular Warfare Fellowship Program		-25,193
Transfer to Regional Defense Combating Terrorism and Irregular Warfare Fellowship Program from Regional Defense Fellowship Program		25,193
Unjustified growth - Regional Defense Fellowship Program		-1,356
Unjustified request - International Security Cooperation Programs - Afghanistan		-6,686
Coalition Support Funds program adjustment		-10,000
4GTI DEFENSE THREAT REDUCTION AGENCY	885,749	875,749
Program decrease unaccounted for		-10,000
4GTJ DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	3,138,345	3,233,845
Program increase - World Language grants		15,000
Program increase - Impact Aid		50,000
Program increase - Impact Aid for children with disabilities		20,000
Program increase - military spouse pilot program		5,000
Program increase - military spouse licensures		3,000
Program increase - medical credentialing for military personnel transitioning to civilian medical employment		2,500

53E

O-1	Budget Request	Final Bill
4GTM OFFICE OF LOCAL DEFENSE COMMUNITY COOPERATION	89,686	237,686
Program increase - Defense Community Infrastructure Program		40,000
Program increase - Noise Mitigation Community Partnership		75,000
Program increase - Defense Manufacturing Community Support Program		30,000
Program increase - personnel increase		3,000
4GTN OFFICE OF THE SECRETARY OF DEFENSE	1,766,614	1,822,640
Transfer from SOLIC SOPP to OIOP		-1,250
Transfer from SOLIC OIOP from SOPP		1,250
Office of Secretary of Defense requested transfer to line 4GTC		-16,724
Program increase - Legacy Resources Management Program		5,000
Program increase - DASD Environment civilian growth		3,000
Program increase - CDC water contamination study and assessment		15,000
Program increase - Information Assurance Scholarship Program		20,000
Program increase - Emerging Contaminants Program		4,000
Program increase - Commission on Planning, Programming, Budgeting and Execution Reform		2,200
Program increase - Defense Environmental International Cooperation		1,500
Program increase - Office of the Under Secretary for Acquisition and Sustainment - domestic supply chain resiliency matrix		5,000
Program increase - Native American Lands Environmental Mitigation Program		8,000
Program increase - Ex Gratia payments		5,000
Program increase - Vietnam MIA program		2,000
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		17,050
Program increase - Red Hill operational risk assessment and auxiliary systems vulnerability study		5,000
Unjustified growth - non pay		-20,000
4GTC OFFICE OF THE SECRETARY OF DEFENSE- CYBER	32,851	49,575
Office of Secretary of Defense requested transfer from 4GTN		16,724
4GTQ WASHINGTON HEADQUARTERS SERVICES	369,698	367,198
Unjustified growth		-2,500
999 OTHER PROGRAMS	17,900,146	17,870,114
Classified adjustment		-30,032
VIETNAM DIOXIN REMEDIATION		15,000
P.L. 115-68 IMPLEMENTATION		2,100
FUEL		54,000
TRANSPORTATION COMMAND WORKING CAPITAL FUND		30,000
MINIMUM WAGE INCREASE		3,800
COMMISSIONS		10,000

53F)

O-1	Budget Request	Final Bill
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CLIMATE PROGRAMS

10,000

53)

PRIVATE SECTOR EMPLOYMENT VERIFICATION

While the Department of Defense utilizes existing systems to provide verifications of the employment status and income of civilian and military personnel and retirees, concerns remain about their efficiency and responsiveness. There are private sector solutions that are currently used by many other government agencies that provide more timely verifications, which are vital to economic activities of employees and servicemembers. Therefore, the agreement directs the Directors of the Defense Manpower Data Center and the Defense Civilian Personnel Advisory Service to utilize private sector technology solutions to provide verifications of the employment status and income of civilian and military personnel and retirees as permitted under the Fair Credit Reporting Act.

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

The Secretary of Defense is directed to provide a report to the House and Senate Appropriations Committees, not later than 30 days after the enactment of this Act, regarding the initiative established under Section 550D of the National Defense Authorization Act for fiscal year 2020 (Public Law 116-92). The report shall also address opportunities within the following subject matters: 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).

DEFENSE LANGUAGE AND NATIONAL SECURITY EDUCATION OFFICE

The agreement designates the funding included in the fiscal year 2022 President's budget request for the Language Training Centers as a congressional special interest item and directs that the funding profiles for the Language Training Centers and the Language Flagship Program 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.

DEFENSE COMMUNITY INFRASTRUCTURE PROGRAM

The agreement directs the Director of the Office of Local Defense Community Cooperation to provide a report to the House and Senate Appropriations Committees that details the Department of Defense's priorities for allocating the limited resources within the Defense Community Infrastructure Program prior to the award of fiscal year 2022 grant awards and with submission of the fiscal year 2023 President's budget request. Further, the Director of the Office of Local Defense Community Cooperation is directed to brief the House and Senate Appropriations Committees on the report and the Department's methodology for prioritization not later than 30 days after the release of the report.

LEGACY RESOURCE MANAGEMENT

The agreement does not include the additional funds allocated for the Readiness and Environmental Protection Initiative program identified in the House Report 117-88.

The agreement includes an additional \$5,000,000 for the Department of Defense Legacy Resource Management Program to continue the work begun in project 17-836 to

continue to identify habitat conservation opportunities that will benefit both the species and military readiness by avoiding or reducing regulatory constraints on military testing and training.

NOISE MITIGATION

The agreement includes a new provision under the noise mitigation program, which divides the amount of funds for the mitigation program between active and reserve components. This is to ensure that reserve components will be guaranteed a portion of the funds each year to address their communities' needs.

QUARTERLY REPORTS ON GUANTANAMO BAY DETENTION FACILITY

In lieu of House language on the Guantanamo Bay Detention Facility, the agreement directs the Secretary of Defense to submit a report to the House and Senate Appropriations Committees not later than 60 days after the enactment of this Act, and quarterly thereafter, on the current number of detainees at the Guantanamo Bay detention facility; their legal status; a description of all Department of Defense costs associated with the facility during the last two fiscal years by program, account, and activity; and the status of funds for the current fiscal year.

DEFENSE SECURITY COOPERATION AGENCY SPEND PLAN

The Secretary of Defense shall, not later than 30 days after the enactment of this Act, submit to the House and Senate Appropriations Committees a detailed spend plan for amounts made available for the Defense Security Cooperation Agency. The Secretary of Defense shall also notify such Committees in writing not less than 15 days prior to obligating funds in a manner that would deviate from the plan. The plan shall include amounts planned for each program listed in the budget justification documents and, for International Security Cooperation Programs, amounts provided in the prior two fiscal years and planned for fiscal year 2022 by combatant command, country, and authority. Amounts in the plan shall only reflect amounts requested in the fiscal year 2022 budget justification materials as modified by this Act. A similar document with requested amounts shall be provided to the House and Senate Appropriations Committees concurrent with the fiscal year 2023 budget submission.

DEFENSE SECURITY COOPERATION AGENCY QUARTERLY REPORTS

The agreement requires the Secretary of Defense to provide quarterly reports to the House and Senate Appropriations Committees on the use and status of funds. Such reports shall be submitted not later than 30 days after the last day of each quarter of the fiscal year and detail commitment, obligation, and expenditure data by sub-activity group for Operation and Maintenance, Defense-Wide, Defense Security Cooperation Agency,

INTEGRATED SECURITY COOPERATION STRATEGIES

The agreement supports increased measures to ensure that security cooperation programs supported by this Act are strategic, address clearly defined goals and

objectives, and are integrated with other programs. Accordingly, not later than 90 days after the enactment of this Act, the Secretary of Defense, in coordination with the Secretary of State, shall submit to the congressional defense committees an integrated security cooperation strategy for Colombia, Jordan, Mexico, the Philippines, Tunisia, and Ukraine. Each strategy shall include an overview of the security relationship between the United States and the country; a description of the goals, objectives, and milestones of security cooperation programs and initiatives supported by the Department of Defense and the Department of State; a description of how programs complement rather than duplicate one another; funding by account and program for fiscal year 2022 and the prior two fiscal years; and a description of host country capabilities and financial contributions towards shared security goals. The Secretary of Defense shall consult with the Committees on Appropriations of the House of Representatives and the Senate not later than 30 days after the enactment of this Act.

EL MOZOTE MASSACRE

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

DEFENSE SECURITY COOPERATION AGENCY

The agreement does not include the directive under this heading in House Report 117-88 regarding Army security force assistance brigade deployments.

COALITION SUPPORT FUNDS

The agreement provides \$50,000,000 for Coalition Support Funds to reimburse key cooperating nations for their support of United States military and stability operations in Afghanistan and to counter the Islamic State of Iraq and Syria. The agreement supports the Department of Defense in making any final payments to coalition nations who supported operations in Afghanistan and directs the Secretary of Defense to complete these payments by the end of fiscal year 2023.

CIVILIAN HARM MITIGATION AND RESPONSE

The agreement supports Department of Defense reforms to avoid, mitigate, and respond to civilian harm. The agreement also supports the January 27, 2022, Memorandum from the Secretary of Defense directing a Civilian Harm Mitigation and Response Action Plan. The Secretary of Defense is directed to provide a briefing to the congressional defense committees not later than 15 days following the release of the plan outlining the details and any additional authorities and funding necessary to implement the plan, including costs planned for fiscal year 2022 and requested for fiscal year 2023, by program, account, and activity. The agreement provides sufficient funds under Operation and Maintenance, Defense-Wide for payments made to redress injury and loss pursuant to section 1213 of the National Defense Authorization Act for Fiscal Year 2020

(Public Law 116-92), including for families of the victims of the August 29, 2021, air strike in Kabul, Afghanistan.

CLIMATE CHANGE REPORT AND ADAPTATION ROADMAP, GREENHOUSE GAS EMISSIONS
REPORT, AND FOSSIL FUELS

In lieu of related items directed in House Report 117-88, the agreement directs the Secretary of Defense to provide a briefing to the congressional defense committees on the outcome of the assessments directed by section 335 of the National Defense Authorization Act for Fiscal Year 2022 (Public Law 117-81) and the plans that are developed therefrom within 90 days of their completion. Furthermore, the agreement directs the Secretary of Defense to provide to the House and Senate Appropriations Committees the briefing directed by section 323 of the National Defense Authorization Act for Fiscal Year 2022 (Public Law 117-81).

AFGHANISTAN SECURITY FORCES FUND

The agreement does not include an appropriation for Afghanistan Security Forces Fund.

The Secretary of Defense shall brief the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act on plans to establish over-the-horizon platforms, including the number of United States personnel necessary to carry out these missions; basing agreements and arrangements with host countries; a description of the authorities used to conduct these operations; and costs during fiscal year 2021 and planned for fiscal year 2022, by program, account, and activity. This language replaces the directives under this heading in House Report 117-88.

COUNTER-ISIS TRAIN AND EQUIP FUND

The agreement provides \$500,000,000 for Counter-ISIS Train and Equip Fund, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final bill
Iraq Train and Equip	345,000	345,000
Syria Train and Equip	177,000	155,000
Program decrease		-22,000
TOTAL, COUNTER-ISIS TRAIN AND EQUIP FUND	522,000	500,000

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 (SDF) to participate in activities to counter the Islamic State of Iraq and Syria (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.

The agreement directs that congressional notifications for funds provided under this heading include a description of the amount, type, and purpose of assistance to be funded, and the recipient of the assistance; the budget and implementation timeline, with anticipated delivery schedule for assistance; and a description of any material misuse of

assistance since the last notification was submitted, along with a description of any remedies taken.

The agreement also directs the Secretary of Defense to consult with the House and Senate Appropriations Committees prior to submitting any notification that includes detention facility fortification or construction and prohibits the use of funds under this heading for any other construction activity. The liberation of ISIS controlled territory has left the SDF holding thousands of hardened foreign fighters and their families under challenging conditions. Accordingly, the agreement directs the Secretary of Defense to continue to engage with the SDF on these matters, including to ensure that detainees are afforded all protections due under the Geneva Conventions.

OPERATION AND MAINTENANCE, ARMY RESERVE

The agreement provides \$3,032,255,000 for Operation and Maintenance, Army Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (63AB)

~~(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.....	10,465 10,465
20	ECHELONS ABOVE BRIGADES.....	554,992 554,992
30	THEATER LEVEL ASSETS.....	120,892 120,892
40	LAND FORCES OPERATIONS SUPPORT.....	597,718 597,718
50	AVIATION ASSETS.....	111,095 111,095
LAND FORCES READINESS		
60	FORCES READINESS OPERATIONS SUPPORT.....	385,506 385,506
70	LAND FORCES SYSTEM READINESS.....	98,021 98,021
80	DEPOT MAINTENANCE.....	34,368 34,368
LAND FORCES READINESS SUPPORT		
90	BASE OPERATIONS SUPPORT.....	584,513 581,513
100	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION...	342,433 382,433
110	MANAGEMENT AND OPERATIONS HEADQUARTERS.....	22,472 22,472
120	CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	2,764 2,764
130	CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,476 7,476
TOTAL, BUDGET ACTIVITY 1.....		
	2,872,715	2,909,715
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
LOGISTICS OPERATIONS		
140	SERVICEWIDE TRANSPORTATION.....	15,400 15,400
150	ADMINISTRATION.....	19,611 19,611
160	SERVICEWIDE COMMUNICATIONS.....	37,458 37,458
170	PERSONNEL/FINANCIAL ADMINISTRATION.....	7,162 7,162
180	OTHER PERSONNEL SUPPORT.....	48,289 51,509
TOTAL, BUDGET ACTIVITY 4.....		
	127,920	131,140
UNJUSTIFIED GROWTH.....		
	---	-15,000
TRAUMA TRAINING.....		
	---	1,500
FUEL.....		
	---	4,900
TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE.....		
	3,000,635	3,032,255

63A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
131 BASE OPERATIONS SUPPORT	584,513	581,513
Unjustified growth		-3,000
132 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	342,433	382,433
Program increase		40,000
434 OTHER PERSONNEL SUPPORT	48,289	51,509
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		3,220
TRAUMA TRAINING		1,500
UNJUSTIFIED GROWTH		-15,000
FUEL		4,900

63B

OPERATION AND MAINTENANCE, NAVY RESERVE

The agreement provides \$1,173,598,000 for Operation and Maintenance, Navy Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT 64A-B

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, NAVY RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
OPERATING FORCES		
10 MISSION AND OTHER FLIGHT OPERATIONS.....	628,522	613,522
20 INTERMEDIATE MAINTENANCE.....	9,593	9,593
30 AIRCRAFT DEPOT MAINTENANCE.....	135,280	135,280
40 AIRCRAFT DEPOT OPERATIONS SUPPORT.....	497	497
50 AVIATION LOGISTICS.....	29,435	29,435
70 COMBAT COMMUNICATIONS.....	18,469	18,469
80 COMBAT SUPPORT FORCES.....	136,710	136,710
90 CYBERSPACE ACTIVITIES.....	440	440
100 ENTERPRISE INFORMATION.....	26,628	26,628
110 SUSTAINMENT, RESTORATION & MODERNIZATION.....	42,311	67,311
120 BASE OPERATING SUPPORT.....	103,606	103,606
TOTAL, BUDGET ACTIVITY 1.....	1,131,491	1,141,491
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
130 ADMINISTRATION.....	1,943	1,943
140 MILITARY MANPOWER & PERSONNEL MANAGEMENT.....	12,191	12,191
150 ACQUISITION AND PROGRAM MANAGEMENT.....	3,073	3,073
TOTAL, BUDGET ACTIVITY 4.....	17,207	17,207
TRAUMA TRAINING.....	---	1,500
FUEL.....	---	13,400
TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE.....	1,148,698	1,173,598

(GUA)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A MISSION AND OTHER FLIGHT OPERATIONS	628,522	613,522
Program decrease unaccounted for		-15,000
BSMF SUSTAINMENT, RESTORATION & MODERNIZATION	42,311	67,311
Program increase		25,000
TRAUMA TRAINING		1,500
FUEL		13,400

6115

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

The agreement provides \$294,860,000 for Operation and Maintenance, Marine Corps Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT 65A-B

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
10	OPERATING FORCES.....	102,271 102,271
20	DEPOT MAINTENANCE.....	16,811 16,811
30	SUSTAINMENT, RESTORATION & MODERNIZATION.....	42,702 52,702
40	BASE OPERATING SUPPORT.....	109,210 107,320

TOTAL, BUDGET ACTIVITY 1.....		270,994 279,104
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
50	ADMINISTRATION.....	14,056 14,056

TOTAL, BUDGET ACTIVITY 4.....		14,056 14,056
TRAUMA TRAINING.....		--- 1,500
FUEL.....		--- 200
=====		
TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE		285,050 294,860
=====		

GSA

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
BSM1 SUSTAINMENT, RESTORATION & MODERNIZATION	42,702	52,702
Program increase		10,000
BSS1 BASE OPERATING SUPPORT	109,210	107,320
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		110
Unjustified growth		-2,000
TRAUMA TRAINING		1,500
FUEL		200

65 P.

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

The agreement provides \$3,417,706,000 for Operation and Maintenance, Air Force Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (66A-B)

~~- (INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, AIR FORCE RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10 PRIMARY COMBAT FORCES.....	1,665,015	1,649,015
20 MISSION SUPPORT OPERATIONS.....	179,486	179,486
30 DEPOT PURCHASE EQUIPMENT MAINTENANCE.....	530,540	530,540
40 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION...	114,987	144,987
50 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	254,831	254,831
60 BASE SUPPORT.....	470,801	465,801
70 CYBERSPACE ACTIVITIES.....	1,372	1,372
TOTAL, BUDGET ACTIVITY 1.....	3,217,032	3,226,032
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
80 ADMINISTRATION.....	91,289	91,289
90 RECRUITING AND ADVERTISING.....	23,181	23,181
100 MILITARY MANPOWER AND PERS MGMT (ARPC).....	13,966	13,966
110 OTHER PERS SUPPORT (DISABILITY COMP).....	6,196	6,196
120 AUDIOVISUAL.....	442	442
TOTAL, BUDGET ACTIVITY 4.....	135,074	135,074
UNJUSTIFIED GROWTH.....	---	-15,000
TRAUMA TRAINING.....	---	1,500
TRANSPORTATION COMMAND WORKING CAPITAL FUND.....	---	18,700
FUEL.....	---	51,400
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE.	3,352,106	3,417,706

66A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
11A PRIMARY COMBAT FORCES Program decrease unaccounted for	1,665,015	1,649,015 -16,000
11R FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION Program increase	114,987	144,987 30,000
11Z BASE OPERATING SUPPORT Unjustified growth	470,801	465,801 -5,000
UNJUSTIFIED GROWTH		-15,000
TRAUMA TRAINING		1,500
FUEL		51,400
TRANSPORTATION COMMAND WORKING CAPITAL FUND		18,700

(56B)

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

The agreement provides \$7,714,473,000 for Operation and Maintenance, Army National Guard, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT

67A-C

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD		
BUDGET ACTIVITY 1: OPERATING FORCES		
LAND FORCES		
10 MANEUVER UNITS.....	799,854	809,354
20 MODULAR SUPPORT BRIGADES.....	211,561	211,561
30 ECHELONS ABOVE BRIGADE.....	835,709	830,709
40 THEATER LEVEL ASSETS.....	101,179	101,179
50 LAND FORCES OPERATIONS SUPPORT.....	34,436	34,436
60 AVIATION ASSETS.....	1,110,416	1,097,916
LAND FORCES READINESS		
70 FORCE READINESS OPERATIONS SUPPORT.....	704,827	691,861
80 LAND FORCES SYSTEMS READINESS.....	47,886	47,886
90 LAND FORCES DEPOT MAINTENANCE.....	244,439	244,439
LAND FORCES READINESS SUPPORT		
100 BASE OPERATIONS SUPPORT.....	1,097,960	1,085,860
110 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION...	956,988	1,027,488
120 MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	1,047,870	1,069,300
130 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	8,071	10,071
140 CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,828	7,828
TOTAL, BUDGET ACTIVITY 1.....	7,209,024	7,269,888
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
150 SERVICEWIDE TRANSPORTATION.....	8,017	8,017
160 ADMINISTRATION.....	76,993	81,993
170 SERVICEWIDE COMMUNICATIONS.....	101,113	98,113
180 MANPOWER MANAGEMENT.....	8,920	8,920
190 OTHER PERSONNEL SUPPORT.....	240,292	240,292

67A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
200 REAL ESTATE MANAGEMENT.....	2,850	2,850
TOTAL, BUDGET ACTIVITY 4.....	438,185	440,185
HISTORICAL UNOBLIGATION.....	---	-20,000
TRAUMA TRAINING.....	---	2,000
TRANSPORTATION COMMAND WORKING CAPITAL FUND.....	---	900
FUEL.....	---	21,500
	=====	=====
TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.	7,647,209	7,714,473
	=====	=====

67B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
111 MANEUVER UNITS	799,854	809,354
Program increase - Northern Strike		13,000
Program decrease unaccounted for		-3,500
113 ECHELONS ABOVE BRIGADE	835,709	830,709
Unjustified growth		-5,000
116 AVIATION ASSETS	1,110,416	1,097,916
Unjustified growth		-12,500
121 FORCE READINESS OPERATIONS SUPPORT	704,827	691,861
Program increase - Advanced trauma and public health direct training services		534
Program increase - wildfire training		1,500
Program decrease unaccounted for		-15,000
131 BASE OPERATIONS SUPPORT	1,097,960	1,085,860
Program increase - AFFF disposal		650
Program increase - warrior resiliency and fitness		2,250
Unjustified growth		-15,000
132 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	956,988	1,027,488
Program increase		70,500
133 MANAGEMENT AND OPERATIONAL HEADQUARTERS	1,047,870	1,069,300
Program increase - prevention workforce		1,600
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		19,830
151 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS	8,071	10,071
Program increase - pilot program for remote provision of cybersecurity technical assistance		2,000
431 ADMINISTRATION	76,993	81,993
Program increase - State Partnership Program		5,000
432 SERVICEWIDE COMMUNICATIONS	101,113	98,113
Unjustified growth		-3,000
HISTORICAL UNOBLIGATED BALANCES		-20,000
TRAUMA TRAINING		2,000
FUEL		21,500
TRANSPORTATION COMMAND WORKING CAPITAL FUND		900

(27C)

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

The agreement provides \$6,786,420,000 for Operation and Maintenance, Air National Guard, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT 68A-B

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10 AIRCRAFT OPERATIONS.....	2,281,432	2,356,932
20 MISSION SUPPORT OPERATIONS.....	582,848	599,988
30 DEPOT PURCHASE EQUIPMENT MAINTENANCE.....	1,241,318	1,233,818
40 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION...	353,193	395,193
50 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	1,077,654	1,067,654
60 BASE SUPPORT.....	908,198	940,358
70 CYBERSPACE SUSTAINMENT.....	23,895	23,895
80 CYBERSPACE ACTIVITIES.....	17,263	17,263

TOTAL, BUDGET ACTIVITY 1.....	6,485,801	6,635,101
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
90 ADMINISTRATION.....	46,455	46,455
100 RECRUITING AND ADVERTISING.....	41,764	41,764

TOTAL, BUDGET ACTIVITY 4.....	88,219	88,219
UNJUSTIFIED GROWTH.....	---	-20,000
TRAUMA TRAINING.....	---	2,000
FUEL.....	---	81,100
=====		
TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD.,	6,574,020	6,786,420
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
11F AIRCRAFT OPERATIONS	2,281,432	2,356,932
Program increase - RC-26B		10,000
Transfer from National Guard Personnel, Air Force for full time support		65,500
11G MISSION SUPPORT OPERATIONS	582,848	599,988
Program increase - State Partnership Program		3,700
Program increase - advanced trauma and public health direct training services		1,800
Program increase - Joint Terminal Attack Controller training		8,000
Program increase - wildfire training		1,140
Program increase - warrior resiliency and fitness		2,500
11M DEPOT PURCHASE EQUIPMENT MAINTENANCE	1,241,318	1,233,818
Unjustified growth		-7,500
11R REAL PROPERTY MAINTENANCE	353,193	395,193
Program increase		42,000
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	1,077,654	1,067,654
Unjustified growth		-10,000
11Z BASE OPERATING SUPPORT	908,198	940,358
Program increase - PFAS environmental activities		19,030
Program increase - prevention workforce		900
Program increase - pilot program for remote provision of cybersecurity technical assistance		2,000
Program increase HMMWV modernization program		3,800
Program increase - Implementation of the Independent Review Commission on Sexual Assault in the Military		6,430
TRAUMA TRAINING		2,000
UNJUSTIFIED GROWTH		-20,000
FUEL		81,100

575

UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES

The agreement provides \$15,589,000 for the United States Court of Appeals for the Armed Forces.

ENVIRONMENTAL RESTORATION, ARMY

The agreement provides \$299,008,000, an increase of \$98,202,000 above the budget request, for Environmental Restoration, Army. Specifically, \$50,202,000 is provided as a general program increase and \$48,000,000 is provided for the Army and Army National Guard to address costs associated with remediating contamination caused by per- and polyfluoroalkyl substances.

ENVIRONMENTAL RESTORATION, NAVY

The agreement provides \$390,113,000, an increase of \$91,863,000 above the budget request, for Environmental Restoration, Navy. Specifically, \$74,563,000 is provided as a general program increase and \$17,300,000 is provided to address costs associated with remediating contamination caused by per- and polyfluoroalkyl substances.

ENVIRONMENTAL RESTORATION, AIR FORCE

The agreement provides \$522,010,000, an increase of \$220,242,000 above the budget request, for Environmental Restoration, Air Force. Specifically, \$75,442,000 is provided as a general program increase and \$144,800,000 is provided for the Air Force

and Air National Guard to address costs associated with remediating contamination caused by per- and polyfluoroalkyl substances.

ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

The agreement provides \$10,979,000, an increase of \$2,196,000 above the budget request, for Environmental Restoration, Defense-Wide.

ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

The agreement provides \$292,580,000, an increase of \$74,000,000 above the budget request, for Environmental Restoration, Formerly Used Defense Sites.

OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

The agreement provides \$160,051,000 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	30,000
Program increase		10,000
HUMANITARIAN ASSISTANCE	75,051	107,551
Program increase		32,500
HUMANITARIAN MINE ACTION PROGRAM	15,000	22,500
Program increase		7,500
TOTAL, OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID	110,051	160,051

COOPERATIVE THREAT REDUCTION ACCOUNT

The agreement provides \$344,849,000 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	2,997	2,997
Chemical Weapons Destruction	13,250	13,250
Global Nuclear Security	17,767	17,767
Biological Threat Reduction Program	124,022	229,022
Program increase - Biological Threat Reduction Program		105,000
Proliferation Prevention Program	58,754	58,754
Other Assessments/Admin Costs	23,059	23,059
TOTAL, COOPERATIVE THREAT REDUCTION ACCOUNT	239,849	344,849

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT

The agreement provides \$56,679,000 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		51,840
Retention and Recognition		1,395
Recruiting and Hiring		3,444
Program increase - diversity STEM talent development		2,000
TOTAL, DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT	54,679	56,679

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE REPORTING REQUIREMENTS

The Under Secretary of Defense for Acquisition and Sustainment is directed to provide the Department of Defense Acquisition Workforce Development Account annual report to the congressional defense committees not later than 30 days after submission of the fiscal year 2023 President's budget request. Further, as in previous years, the Under Secretary of Defense for Acquisition and Sustainment is directed to provide the congressional defense committees, with the fiscal year 2023 President's budget request, additional details regarding total funding for the acquisition workforce by funding category and specific appropriations accounts in the future years defense program, to include an explanation of changes from prior years' submissions.

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT ACCOUNT

REPROGRAMMING REQUIREMENTS

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 joint explanatory statement. The dollar threshold for reprogramming DAWDA funds remains \$10,000,000.

TITLE III – PROCUREMENT

The agreement provides \$144,942,486,000 in Title III, Procurement, as follows:

~~(INSERT PROCUREMENT SUMMARY TABLE)~~

INSERT (75A)

(DOLLARS IN THOUSANDS)

BUDGET
REQUEST

FINAL
BILL

SUMMARY

ARMY

AIRCRAFT.....	2,806,452	3,295,431
MISSILES.....	3,556,251	3,460,064
WEAPONS AND TRACKED COMBAT VEHICLES.....	3,875,893	4,319,082
AMMUNITION.....	2,158,110	2,276,667
OTHER.....	8,873,558	9,453,524
TOTAL, ARMY.....	21,270,264	22,804,768

NAVY

AIRCRAFT.....	16,477,178	17,799,321
WEAPONS.....	4,220,705	3,982,657
AMMUNITION.....	988,018	845,289
SHIPS.....	22,571,059	26,664,526
OTHER.....	10,875,912	11,072,651
MARINE CORPS.....	3,043,091	3,093,770
TOTAL, NAVY.....	58,175,963	63,458,214

AIR FORCE

AIRCRAFT.....	15,727,669	18,383,946
MISSILES.....	2,669,811	2,475,206
AMMUNITION.....	795,168	665,977
OTHER.....	25,251,137	26,615,079
TOTAL, AIR FORCE.....	44,443,785	48,140,208

SPACE FORCE

SPACE PROGRAMS.....	2,766,854	3,023,408
TOTAL, SPACE FORCE.....	2,766,854	3,023,408

DEFENSE-WIDE

DEFENSE-WIDE.....	5,548,212	6,177,561
NATIONAL GUARD AND RESERVE EQUIPMENT.....		950,000
DEFENSE PRODUCTION ACT PURCHASES.....	340,927	388,327
TOTAL PROCUREMENT.....	132,546,005	144,942,486

(75A)

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense Appropriations bill for Fiscal Year 2008 (House Report 110-279). Specifically, the dollar threshold for reprogramming funds 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. Additional guidance is provided in the overview of this explanatory statement.

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 joint 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 joint explanatory statement.

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, for restoration of any lost capability to meet future organic wartime manufacturing needs.

AGILE PROCUREMENT TRANSITION PILOT

The agreement appropriates \$100,000,000 to establish the Agile Procurement Transition Pilot under the management of the Deputy Secretary of Defense in collaboration with the Vice Chairman of the Joint Staff and the Service Acquisition Officials, with the goal to aid the warfighter, to transition technologies from pilot programs, prototype projects, and research projects to scale to capability, software, or

service acquisitions. Awards made pursuant to this fund shall be limited to between \$10,000,000 to \$50,000,000 per fiscal year and for no more than three years. Participants in the fund shall have a total present contract value of \$500,000,000 or less in cumulative revenue from the Department of Defense to be eligible for funding. The agreement also directs the Deputy Secretary of Defense to submit a report to the congressional defense committees not later than March 1 and September 1 of each fiscal year in which the funding is appropriated to provide an overview on the capabilities being tested and the proposed path to scale innovative technologies, including successes and failures to date.

AIRCRAFT PROCUREMENT, ARMY

The agreement provides \$3,295,431,000 for Aircraft Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT

79A-C

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, ARMY		
AIRCRAFT FIXED WING		
1 UTILITY F/W AIRCRAFT.....	---	6,000
4 SMALL UNMANNED AIRCRAFT SYSTEM.....	16,005	16,005
ROTARY		
7 AH-64 APACHE BLOCK IIIA REMAN.....	504,136	469,136
8 AH-64 APACHE BLOCK IIIA REMAN (AP-CY).....	192,230	192,230
10 UH-60 BLACKHAWK (MYP).....	630,263	841,763
11 UH-60 BLACKHAWK (MYP) (AP-CY).....	146,068	146,068
12 UH-60 BLACKHAWK L AND V MODELS.....	166,205	166,205
13 CH-47 HELICOPTER.....	145,218	286,118
14 CH-47 HELICOPTER (AP-CY).....	18,559	47,559

TOTAL, AIRCRAFT.....	1,818,684	2,171,084
MODIFICATION OF AIRCRAFT		
17 GRAY EAGLE MODS2.....	3,143	123,143
18 MULTI SENSOR ABN RECON.....	127,665	120,910
19 AH-64 MODS.....	118,560	118,560
20 CH-47 CARGO HELICOPTER MODS (MYP).....	9,918	21,918
21 GRCS SEMA MODS.....	2,762	2,762
22 ARL SEMA MODS.....	9,437	14,437
23 EMARSS SEMA MODS.....	1,568	1,568
24 UTILITY/CARGO AIRPLANE MODS.....	8,530	8,530
25 UTILITY HELICOPTER MODS.....	15,826	25,326
26 NETWORK AND MISSION PLAN.....	29,206	29,206
27 COMMS, NAV SURVEILLANCE.....	58,117	58,117
29 AVIATION ASSURED PNT.....	47,028	45,862
30 GATM ROLLUP.....	16,776	16,776
31 RQ-7 UAV MODS.....	---	6,000
32 UAS MODS.....	3,840	3,840

TOTAL, MODIFICATION OF AIRCRAFT.....	452,376	596,955

774

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

SUPPORT EQUIPMENT AND FACILITIES		
GROUND SUPPORT AVIONICS		
33 AIRCRAFT SURVIVABILITY EQUIPMENT.....	64,561	62,961
34 SURVIVABILITY CM.....	5,104	5,104
35 CMWS.....	148,570	148,570
36 COMMON INFRARED COUNTERMEASURES (CIRCM).....	240,412	234,012
OTHER SUPPORT		
38 COMMON GROUND EQUIPMENT.....	13,561	13,561
39 AIRCREW INTEGRATED SYSTEMS.....	41,425	41,425
40 AIR TRAFFIC CONTROL.....	21,759	21,759
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	535,392	527,392

=====		
TOTAL, AIRCRAFT PROCUREMENT, ARMY.....	2,806,452	3,295,431
=====		

79B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 UTILITY F/W AIRCRAFT	0	6,000
Program increase - fixed wing avionics upgrade		6,000
7 AH-64 APACHE BLOCK IIIA REMAN	504,136	469,136
Unit cost growth		-10,000
Program growth		-25,000
10 UH-60 BLACKHAWK M MODEL (MYP)	630,263	841,763
Program increase - nine HH-60M for the National Guard		211,500
13 CH-47 HELICOPTER	145,218	286,118
Program increase - F Block II		140,900
14 CH-47 HELICOPTER ADVANCE PROCUREMENT (CY)	18,559	47,559
Program increase - F Block II		29,000
17 GRAY EAGLE MODS2	3,143	123,143
Program increase - recapitalization of legacy MQ-1C to extended range MDO configuration		120,000
18 MULTI SENSOR ABN RECON	127,665	120,910
Spares previously funded		-4,755
Cost growth		-2,000
20 CH-47 CARGO HELICOPTER MODS (MYP)	9,918	21,918
Program increase - hybrid enhanced ballistic missile protection system		10,000
Program increase - improved vibration control		2,000
22 ARL SEMA MODS	9,437	14,437
Program increase - APUs		5,000
25 UTILITY HELICOPTER MODS	15,826	25,326
Program increase - UH-60 generators		9,500
29 AVIATION ASSURED PNT	47,028	45,862
Fielding costs previously funded		-1,166
31 RQ-7 UAV MODS	0	6,000
Program increase - block III kit installation		6,000
33 AIRCRAFT SURVIVABILITY EQUIPMENT	64,561	62,961
Cost growth		-1,600
36 COMMON INFRARED COUNTERMEASURES (CIRCM)	240,412	234,012
Fielding costs previously funded		-4,000
Training support cost growth		-2,400

79C

MISSILE PROCUREMENT, ARMY

The agreement provides \$3,460,064,000 for Missile Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (80A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

MISSILE PROCUREMENT, ARMY		
OTHER MISSILES		
SURFACE-TO-AIR MISSILE SYSTEM		
2 Lower Tier Air and Missile Defense (AMD) Sen.....	35,473	33,473
3 M-SHORAD - PROCUREMENT.....	331,575	331,575
4 MSE MISSILE.....	776,696	771,696
5 PRECISION STRIKE MISSILE (PRSM).....	166,130	166,130
6 INDIRECT FIRE PROTECTION CAPABILITY INC 2 - I.....	25,253	19,053
AIR-TO-SURFACE MISSILE SYSTEM		
7 HELLFIRE SYS SUMMARY.....	118,800	115,431
8 JOINT AIR-TO-GROUND MSLs (JAGM).....	152,177	147,177
9 LONG RANGE PRECISION MUNITION.....	44,744	44,744
ANTI-TANK/ASSAULT MISSILE SYSTEM		
10 JAVELIN (AAWS-M) SYSTEM SUMMARY.....	120,842	128,812
11 TOW 2 SYSTEM SUMMARY.....	104,412	101,912
12 GUIDED MLRS ROCKET (GMLRS).....	935,917	862,699
13 MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR).....	29,574	29,574
14 HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)....	128,438	128,438
16 LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)....	68,278	61,408

TOTAL, OTHER MISSILES.....	3,038,309	2,942,122
MODIFICATION OF MISSILES		
MODIFICATIONS		
17 PATRIOT MODS.....	205,469	205,469
21 AVENGER MODS.....	11,227	11,227
22 ITAS/TOW MODS.....	4,561	4,561
23 MLRS MODS.....	273,856	273,856
24 HIMARS MODIFICATIONS.....	7,192	7,192

TOTAL, MODIFICATION OF MISSILES.....	502,305	502,305

(20A)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
25 SPARES AND REPAIR PARTS		
SPARES AND REPAIR PARTS.....	5,019	5,019
SUPPORT EQUIPMENT AND FACILITIES		
26 AIR DEFENSE TARGETS.....	10,618	10,618
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	10,618	10,618
	=====	=====
TOTAL, MISSILE PROCUREMENT, ARMY.....	3,556,251	3,460,064
	=====	=====

805

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 LOWER TIER AIR AND MISSILE DEFENSE (AMD) SENSOR IPF excess request	35,473	33,473 -2,000
4 MSE MISSILE Obsolescence	776,696	771,696 -5,000
6 INDIRECT FIRE PROTECTION CAPABILITY INC 2-I Maintain level of effort	25,253	19,053 -6,200
7 HELLFIRE SYS SUMMARY Price savings	118,800	115,431 -3,369
8 JOINT AIR-TO-GROUND MSLS (JAGM) Unit cost growth	152,177	147,177 -5,000
10 JAVELIN (AAWS-M) SYSTEM SUMMARY AUR unit cost growth Program increase - tooling for G model upgrade	120,842	128,812 -2,030 10,000
11 TOW 2 SYSTEM SUMMARY Obsolescence	104,412	101,912 -2,500
12 GUIDED MLRS ROCKET (GMLRS) Tooling request previously funded Unit cost adjustment Program increase - additional AURs	935,917	862,699 -17,655 -105,563 50,000
16 LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) Unit cost adjustment	68,278	61,408 -6,870

(80C)

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

The agreement provides \$4,319,082,000 for Procurement of Weapons and Tracked Combat Vehicles, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (81A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY		
TRACKED COMBAT VEHICLES		
1 ARMORED MULTI PURPOSE VEHICLE (AMPV).....	104,727	83,346
2 ASSAULT BREACHER VEHICLE (ABV).....	16,454	16,454
3 MOBILE PROTECTED FIREPOWER.....	286,977	286,977
MODIFICATION OF TRACKED COMBAT VEHICLES		
5 STRYKER UPGRADE.....	1,005,028	1,082,828
6 BRADLEY PROGRAM (MOD).....	461,385	460,385
7 M109 FOV MODIFICATIONS.....	2,534	2,534
8 PALADIN INTEGRATED MANAGEMENT (PIM).....	446,430	662,900
9 IMPROVED RECOVERY VEHICLE (M88A2 HERCULES).....	52,059	52,059
10 ASSAULT BRIDGE (MOD).....	2,136	2,136
13 JOINT ASSAULT BRIDGE.....	110,773	110,773
15 ABRAMS UPGRADE PROGRAM.....	981,337	1,145,837
16 VEHICLE PROTECTION SYSTEMS (VPS).....	80,286	75,286
TOTAL, TRACKED COMBAT VEHICLES.....	3,550,126	3,981,515
WEAPONS AND OTHER COMBAT VEHICLES		
17 M240 MEDIUM MACHINE GUN (7.62MM).....	---	10,500
18 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS.....	31,623	31,623
19 MORTAR SYSTEMS.....	37,485	32,985
20 XM320 GRENADE LAUNCHER MODULE (GLM).....	8,666	8,666
21 PRECISION SNIPER RIFLE.....	11,040	9,240
23 CARBINE.....	4,434	4,434
24 NEXT GENERATION SQUAD WEAPON.....	97,087	97,087
26 HANDGUN.....	4,930	4,930
MOD OF WEAPONS AND OTHER COMBAT VEH		
27 MK-19 GRENADE MACHINE GUN MODS.....	13,027	23,027
28 M777 MODS.....	21,976	16,576
30 M2 50 CAL MACHINE GUN MODS.....	3,612	6,612

81A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

SUPPORT EQUIPMENT AND FACILITIES		
36 ITEMS LESS THAN \$5.0M (WOCV-WTCV).....	1,068	1,068
37 PRODUCTION BASE SUPPORT (WOCV-WTCV).....	90,819	90,819

TOTAL, WEAPONS AND OTHER COMBAT VEHICLES.....	325,767	337,567
=====		
TOTAL, PROCUREMENT OF W&TCV, ARMY.....	3,875,893	4,319,082
=====		

(818)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 ARMORED MULTI PURPOSE VEHICLE (AMPV)	104,727	83,346
Maintain level of effort		-6,781
Change orders early to need		-14,600
5 STRYKER UPGRADE	1,005,028	1,082,828
Fielding costs excess growth		-18,000
CROWS-J overestimation		-23,000
Engineering support early to need		-20,200
Program increase		139,000
6 BRADLEY PROGRAM (MOD)	461,385	460,385
Training device excess request		-4,000
Survivability enhancements insufficient justification		-2,000
Price discrepancies		-6,400
Mobility modifications early to need		-8,600
Program increase - Bradley program modifications		20,000
8 PALADIN INTEGRATED MANAGEMENT (PIM)	446,430	662,900
Unit cost growth		-11,000
Program increase - additional 23 PIM		227,470
15 ABRAMS UPGRADE PROGRAM	981,337	1,145,837
Field modifications installation early to need		-10,500
Program increase - additional 20 Abrams		175,000
16 VEHICLE PROTECTION SYSTEMS (VPS)	80,286	75,286
Excess request		-5,000
17 M240 MEDIUM MACHINE GUN (7.62MM)	0	10,500
Program increase - M240 machine guns		10,500
19 MORTAR SYSTEMS	37,485	32,985
Unit cost growth		-4,500
21 PRECISION SNIPER RIFLE	11,040	9,240
Unit cost growth		-1,800
27 MK-19 GRENADE MACHINE GUN MODS	13,027	23,027
Program increase - MK93 machine gun mounts		10,000
28 M777 MODS	21,976	16,576
Unjustified cost growth		-5,400
30 M2 50 CAL MACHINE GUN MODS	3,612	6,612
Program increase - cannon life extension program		3,000

81C

PROCUREMENT OF AMMUNITION, ARMY

The agreement provides \$2,276,667,000 for Procurement of Ammunition, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (82A-D)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
PROCUREMENT OF AMMUNITION, ARMY		
AMMUNITION		
1	SMALL/MEDIUM CAL AMMUNITION CTG, 5.56MM, ALL TYPES.....	47,490 65,490
2	CTG, 7.62MM, ALL TYPES.....	74,870 101,926
3	NEXT GENERATION SQUAD WEAPON AMMUNITION.....	76,794 71,234
4	CTG, HANDGUN, ALL TYPES.....	7,812 7,812
5	CTG, .50 CAL, ALL TYPES.....	29,716 58,116
6	CTG, 20MM, ALL TYPES.....	4,371 4,371
8	CTG, 30MM, ALL TYPES.....	34,511 45,450
9	CTG, 40MM, ALL TYPES.....	35,231 38,344
MORTAR AMMUNITION		
10	60MM MORTAR, ALL TYPES.....	23,219 19,365
11	81MM MORTAR, ALL TYPES.....	52,135 42,735
12	120MM MORTAR, ALL TYPES.....	104,144 90,801
TANK AMMUNITION		
13	CTG TANK 105MM AND 120MM: ALL TYPES.....	224,503 204,003
ARTILLERY AMMUNITION		
14	CTG, ARTY, 75MM AND 105MM: ALL TYPES.....	26,709 26,709
15	ARTILLERY PROJECTILE, 155MM, ALL TYPES.....	174,015 142,582
16	PROJ 155MM EXTENDED RANGE XM982.....	73,498 56,755
17	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES.....	150,873 262,451
MINES		
18	MINES AND CLEARING CHARGES, ALL TYPES.....	25,980 20,980
19	CLOSE TERRAIN SHAPING OBSTACLE.....	34,761 34,761
ROCKETS		
20	SHOULDER LAUNCHED MUNITIONS, ALL TYPES.....	24,408 17,384
21	ROCKET, HYDRA 70, ALL TYPES.....	109,536 117,536
OTHER AMMUNITION		
22	CAD/PAD ALL TYPES.....	6,549 4,597
23	DEMOLITION MUNITIONS, ALL TYPES.....	27,904 23,468
24	GRENADES, ALL TYPES.....	37,437 31,437
25	SIGNALS, ALL TYPES.....	7,530 7,530
26	SIMULATORS, ALL TYPES.....	8,350 7,350
27	REACTIVE ARMOR TILES.....	17,755 17,755

827

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
28 MISCELLANEOUS AMMO COMPONENTS, ALL TYPES.....	2,784	1,500
29 ITEMS LESS THAN \$5 MILLION.....	17,797	16,297
30 AMMUNITION PECULIAR EQUIPMENT.....	12,290	9,790
31 FIRST DESTINATION TRANSPORTATION (AMMO).....	4,331	4,331
32 CLOSEOUT LIABILITIES.....	99	99
TOTAL, AMMUNITION.....	1,477,402	1,552,959
AMMUNITION PRODUCTION BASE SUPPORT PRODUCTION BASE SUPPORT		
34 INDUSTRIAL FACILITIES.....	538,120	588,120
35 CONVENTIONAL MUNITIONS DEMILITARIZATION.....	139,410	132,410
36 ARMS INITIATIVE.....	3,178	3,178
TOTAL, AMMUNITION PRODUCTION BASE SUPPORT.....	680,708	723,708
TOTAL, PROCUREMENT OF AMMUNITION, ARMY.....	2,158,110	2,276,667

(125)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 CTG, 5.56MM, ALL TYPES	47,490	65,490
5.56mm Blank, M200 Linked f/SAW E01101 excess to need		-864
5.56mm Ball, M855A1 EPR, Clipped Mil Pack, E95400 excess to need		-2,000
Program increase		20,864
2 CTG, 7.62MM, ALL TYPES	74,870	101,926
Unit cost growth		-1,417
Program increase		28,473
3 NEXT GENERATION SQUAD WEAPON AMMUNITION	76,794	71,234
Reduce carryover		-5,560
5 CTG, .50 CAL, ALL TYPES	29,716	58,116
Unit cost growth		-2,000
Program increase		30,400
8 CTG, 30MM, ALL TYPES	34,511	45,450
CTG 30mm HEDP M789 Single Round, E09900 excess to need		-1,900
Complete Round M788 TP, E10100 excess to need		-161
Program increase - Mk317 and Mk258		13,000
9 CTG, 40MM, ALL TYPES	35,231	38,344
BA54, 40mm TP-Day/Nite/Ther Low Velocity excess to need		-7,873
BA55, 40mm TP-Day/Nite/Ther, Hi Velocity excess to need		-3,014
Program increase - 40mm Training Practice (TP) M918/M385A1 Mixed Belt rounds		14,000
10 60MM MORTAR, ALL TYPES	23,219	19,365
60mm Mortar FRTR, M769 Series w/ Practice Fuze, E92900 excess to need		-743
60mm Mortar HE, M768 Series w/ PD Fuze, E92200 unit cost growth		-3,111
11 81MM MORTAR, ALL TYPES	52,135	42,735
81mm Mortar HE, M821 Series w/ MOFM, E18403 excess to need		-9,400
12 120MM MORTAR, ALL TYPES	104,144	90,801
120mm Mortar HE, M933 Series w/PD Fuze, E25502 unjustified growth		-10,490
120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze, E25503 unjustified growth		-2,853
13 CARTRIDGES, TANK, 105MM AND 120MM, ALL TYPES	224,503	204,003
Program decrease		-20,500
15 ARTILLERY PROJECTILE, 155MM, ALL TYPES	174,015	142,582
Program increase - XM1113 and XM1128		5,000
155mm Extended Range Spotting, M1121, E21618 excess to need		-1,478
155mm HE, M795, E66800 excess to need		-30,890
155mm WP Smoke M825, E67800 excess to need		-4,065
16 PROJ 155MM EXTENDED RANGE M982	73,498	56,755
E80103 restoring acquisition accountability		-16,743

82C

P-1	Budget Request	Final Bill
17 ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL	150,873	262,451
Program increase - PGK		120,000
XM654, E99350 and XM59, E99360 early to need		-8,422
18 MINES & CLEARING CHARGES, ALL TYPES	25,980	20,980
Reduce carryover		-5,000
20 SHOULDER LAUNCHED MUNITIONS, ALL TYPES	24,408	17,384
Munition 83mm Bunker Defeat (BDM) Rocket and Launcher M141, E88401 excess to need		-7,024
21 ROCKET, HYDRA 70, ALL TYPES	109,536	117,536
Program increase		8,000
22 CAD/PAD, ALL TYPES	6,549	4,597
Reduce carryover		-1,952
23 DEMOLITION MUNITIONS, ALL TYPES	27,904	23,468
Charge, Demo Cratering 40 lb, E51300 reduce carryover		-3,878
Charge, Demo, (50ft), Sheet Explosive, M186 quantities previously funded		-558
24 GRENADES, ALL TYPES	37,437	31,437
Grenade 66MM Vehicle Launched White Smoked Screening Training, E00500 restoring acquisition accountability		-1,000
Grenade Hand Offensive M111, E33010 unjustified growth		-5,000
26 SIMULATORS, ALL TYPES	8,350	7,350
Reduce carryover		-1,000
28 AMMO COMPONENTS, ALL TYPES	2,784	1,500
Excess to need		-1,284
29 ITEMS LESS THAN \$5 MILLION (AMMO)	17,797	16,297
Unjustified growth		-1,500
30 AMMUNITION PECULIAR EQUIPMENT	12,290	9,790
Reduce carryover		-2,500
34 INDUSTRIAL FACILITIES	538,120	588,120
Program increase		50,000
35 CONVENTIONAL MUNITIONS DEMILITARIZATION	139,410	132,410
Reduce carryover		-7,000

82

CONVENTIONAL AMMUNITION DEMILITARIZATION MISSION AWARD DELAYS

The agreement directs the Secretary of the Army to provide a report to the congressional defense committees, not later than 90 days after the enactment of this Act, that will address the Army allocation of the conventional demilitarization budget across the industrial base; the strategy for government-owned, government-operated; government-owned, contractor-operated; and contractor-owned, contractor-operated allocations that focus on efficiency and environmental compliance; any recent cost-benefit analyses and cost trends; the percentage of open burn/open detonation across all industrial base locations and efforts to minimize the activity; and whether Environmental Protection Agency compliance for clean air standards is an allocation factor for demilitarization requirements.

ALIGNING THE MUNITIONS REQUIREMENTS PROCESS WITH ACQUISITION

The agreement directs the Secretary of the Army to study the sequencing of the Munitions Requirement Process in relation to the development of its annual budget request and to submit a report to the congressional defense committees on its findings and recommendations not later than 90 days after the enactment of this Act.

OTHER PROCUREMENT, ARMY

The agreement provides \$9,453,524,000 for Other Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (84A-I)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OTHER PROCUREMENT, ARMY		
TACTICAL AND SUPPORT VEHICLES		
TACTICAL VEHICLES		
2 SEMITRAILERS, FLATBED:.....	12,539	11,239
3 SEMITRAILERS, TANKERS:.....	17,985	17,985
HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE		
4 (HMMWV).....	60,706	120,706
5 GROUND MOBILITY VEHICLES (GMV).....	29,807	44,807
6 ARNG HMMWV MODERNIZATION PROGRAM.....	---	100,000
8 JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES...	574,562	574,562
9 TRUCK, DUMP, 20t (CCE).....	9,882	29,382
10 FAMILY OF MEDIUM TACTICAL VEH (FMTV).....	36,885	61,885
11 FAMILY OF COLD WEATHER ALL-TERRAIN VEHICLE (C).....	16,450	16,450
12 FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMEN.....	26,256	26,256
13 FAMILY OF HEAVY TACTICAL VEHICLES (FHTV).....	64,282	173,282
14 PLS ESP.....	16,943	16,943
17 TACTICAL WHEELED VEHICLE PROTECTION KITS.....	17,957	17,957
18 MODIFICATION OF IN SVC EQUIP.....	29,349	212,349
NON-TACTICAL VEHICLES		
20 PASSENGER CARRYING VEHICLES.....	1,232	---
21 NONTACTICAL VEHICLES, OTHER.....	24,246	19,246
TOTAL, TACTICAL AND SUPPORT VEHICLES.....		
	939,081	1,443,049
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		
COMM - JOINT COMMUNICATIONS		
22 SIGNAL MODERNIZATION PROGRAM.....	140,036	140,036
23 TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE.....	436,524	433,124
25 DISASTER INCIDENT RESPONSE COMMS TERMINAL (DI.....	3,863	3,863
26 JCSE EQUIPMENT (USREDCOM).....	4,845	4,845
COMM - SATELLITE COMMUNICATIONS		
29 DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS.....	97,369	90,928
30 TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS.....	120,550	132,050
31 SHF TERM.....	38,129	38,129
32 ASSURED POSITIONING, NAVIGATION AND TIMING.....	115,291	112,791
33 SMART-T (SPACE).....	15,407	15,407
34 GLOBAL BRDCST SVC - GBS.....	2,763	2,763

84A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
COMM - COMBAT SUPPORT COMM		
COMM - C3 SYSTEM		
37 COE TACTICAL SERVER INFRASTRUCTURE (TSI).....	99,858	99,858
COMM - COMBAT COMMUNICATIONS		
38 HANDHELD MANPACK SMALL FORM FIT (HMS).....	775,069	724,099
40 ARMY LINK 16 SYSTEMS.....	17,749	17,749
42 UNIFIED COMMAND SUITE.....	17,984	17,984
43 COTS COMMUNICATIONS EQUIPMENT.....	191,702	185,302
44 FAMILY OF MED COMM FOR COMBAT CASUALTY CARE.....	15,957	15,957
45 ARMY COMMUNICATIONS & ELECTRONICS.....	89,441	79,441
COMM - INTELLIGENCE COMM		
47 CI AUTOMATION ARCHITECTURE (MIP).....	13,317	13,317
48 DEFENSE MILITARY DECEPTION INITIATIVE.....	5,207	5,207
49 MULTI-DOMAIN INTELLIGENCE.....	20,095	20,095
INFORMATION SECURITY		
51 INFORMATION SYSTEM SECURITY PROGRAM-ISSP.....	987	987
52 COMMUNICATIONS SECURITY (COMSEC).....	126,273	126,273
53 DEFENSIVE CYBER OPERATIONS.....	27,389	27,389
56 SIO CAPABILITY.....	21,303	17,303
57 BIOMETRIC ENABLING CAPABILITY (BEC).....	914	914
COMM - LONG HAUL COMMUNICATIONS		
59 BASE SUPPORT COMMUNICATIONS.....	9,209	9,209
COMM - BASE COMMUNICATIONS		
60 INFORMATION SYSTEMS.....	219,026	214,026
61 EMERGENCY MANAGEMENT MODERNIZATION PROGRAM.....	4,875	4,875
64 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM.....	223,001	218,001
ELECT EQUIP		
ELECT EQUIP - TACT INT REL ACT (TIARA)		
67 JTT/CIBS-M (MIP).....	5,463	5,463
68 TERRESTRIAL LAYER SYSTEMS (TLS).....	39,240	39,240
70 DCGS-A INTEL.....	92,613	92,613
71 JOINT TACTICAL GROUND STATION (JTAGS)-INTEL.....	8,088	8,088
72 TROJAN.....	30,828	30,828
73 MOD OF IN-SVC EQUIP (INTEL SPT).....	39,039	51,039

(34P)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
74 BIOMETRIC TACTICAL COLLECTION DEVICES.....	11,097	11,097
76 ELECT EQUIP - ELECTRONIC WARFARE (EW) EW PLANNING AND MANAGEMENT TOOLS (EWPMT).....	783	783
77 AIR VIGILANCE (AV).....	13,486	13,486
79 FAMILY OF PERSISTENT SURVEILLANCE CAP.....	14,414	14,414
80 COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES.....	19,111	19,111
81 CI MODERNIZATION.....	421	421
82 ELECT EQUIP - TACTICAL SURV. (TAC SURV) SENTINEL MODS.....	47,642	47,642
83 NIGHT VISION DEVICES.....	1,092,341	667,377
84 SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF.....	21,103	21,103
85 INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS.....	6,153	6,153
86 FAMILY OF WEAPON SIGHTS (FWS).....	184,145	184,145
87 ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SE.....	2,371	2,371
88 FORWARD LOOKING INFRARED (IFLIR).....	11,929	11,929
89 COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS).....	60,058	434,058
90 JOINT BATTLE COMMAND - PLATFORM (JBC-P).....	263,661	253,661
91 JOINT EFFECTS TARGETING SYSTEM (JETS).....	62,082	62,082
93 COMPUTER BALLISTICS: LHMBC XM32.....	2,811	2,811
94 MORTAR FIRE CONTROL SYSTEM.....	17,236	17,236
95 MORTAR FIRE CONTROL SYSTEM MODIFICATIONS.....	2,830	2,830
96 COUNTERFIRE RADARS.....	31,694	26,694
97 ELECT EQUIP - TACTICAL C2 SYSTEMS ARMY COMMAND POST INTEGRATED INFRASTRUCTURE.....	49,410	49,410
98 FIRE SUPPORT C2 FAMILY.....	9,853	9,853
99 AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD).....	67,193	67,193
100 IAMD BATTLE COMMAND SYSTEM.....	301,872	296,872
101 LIFE CYCLE SOFTWARE SUPPORT (LCSS).....	5,182	5,182
102 NETWORK MANAGEMENT INITIALIZATION AND SERVICE.....	31,349	31,349
104 GLOBAL COMBAT SUPPORT SYSTEM-ARMY (GCSS-A).....	11,271	11,271
105 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY.....	16,077	16,077
107 MOD OF IN-SERVICE EQUIPMENT (ENFIRE).....	3,160	14,560
108 ELECT EQUIP - AUTOMATION ARMY TRAINING MODERNIZATION.....	9,833	12,333
109 AUTOMATED DATA PROCESSING EQUIPMENT.....	130,924	130,924

(84C)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
110 ACCESSIONS INFORMATION ENVIRONMENT (AIE)	44,635	39,635
111 GENERAL FUND ENTERPRISE BUSINESS SYSTEM	1,452	1,452
112 HIGH PERF COMPUTING MOD PROGRAM	69,943	69,943
113 CONTRACT WRITING SYSTEM	16,957	14,957
114 CSS COMMUNICATIONS	73,110	73,110
115 RESERVE COMPONENT AUTOMATION SYS (RCAS)	12,905	12,905
ELECT EQUIP - AUDIO VISUAL SYS (A/V)		
ELECT EQUIP - SUPPORT		
117 BCT EMERGING TECHNOLOGIES	13,835	13,835
CLASSIFIED PROGRAMS	18,304	18,304
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT	5,822,037	5,687,762
OTHER SUPPORT EQUIPMENT		
CHEMICAL DEFENSIVE EQUIPMENT		
118 FAMILY OF NON-LETHAL EQUIPMENT (FNLE)	---	27,000
119 BASE DEFENSE SYSTEMS (BDS)	62,295	14,220
120 CBRN DEFENSE	55,632	55,632
BRIDGING EQUIPMENT		
122 TACTICAL BRIDGING	9,625	9,625
123 TACTICAL BRIDGE, FLOAT-RIBBON	76,082	74,182
124 BRIDGE SUPPLEMENTAL SET	19,867	19,867
125 COMMON BRIDGE TRANSPORTER RECAP	109,796	109,796
ENGINEER (NON-CONSTRUCTION) EQUIPMENT		
126 HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST	5,628	5,628
128 HUSKY MOUNTED DETECTION SYSTEM (HMDS)	26,823	26,823
131 ROBOTICS AND APPLIQUE SYSTEMS	124,233	119,233
132 RENDER SAFE SETS KITS OUTFITS	84,000	84,000
COMBAT SERVICE SUPPORT EQUIPMENT		
134 HEATERS AND ECU'S	7,116	6,116
135 SOLDIER ENHANCEMENT	1,286	1,286
136 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)	9,741	9,741
137 GROUND SOLDIER SYSTEM	150,244	150,244
138 MOBILE SOLDIER POWER	17,815	17,815
139 FORCE PROVIDER	28,860	38,860
140 FIELD FEEDING EQUIPMENT	2,321	12,321

84D

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
141 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM.....	40,240	37,040
142 FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS.....	36,163	36,163
PETROLEUM EQUIPMENT		
144 QUALITY SURVEILLANCE EQUIPMENT18355.....	744	744
145 DISTRIBUTION SYSTEMS, PETROLEUM & WATER.....	72,296	72,296
MEDICAL EQUIPMENT		
146 COMBAT SUPPORT MEDICAL.....	122,145	132,145
MAINTENANCE EQUIPMENT		
147 MOBILE MAINTENANCE EQUIPMENT SYSTEMS.....	14,756	134,756
CONSTRUCTION EQUIPMENT		
154 ALL TERRAIN CRANES.....	112,784	112,784
156 CONST EQUIP ESP.....	8,694	18,694
RAIL FLOAT CONTAINERIZATION EQUIPMENT		
158 ARMY WATERCRAFT ESP.....	44,409	58,009
159 MANEUVER SUPPORT VESSEL (MSV).....	76,660	76,660
GENERATORS		
161 GENERATORS AND ASSOCIATED EQUIPMENT.....	47,606	105,892
162 TACTICAL ELECTRIC POWER RECAPITALIZATION.....	10,500	10,500
MATERIAL HANDLING EQUIPMENT		
163 FAMILY OF FORKLIFTS.....	13,325	13,325
TRAINING EQUIPMENT		
164 COMBAT TRAINING CENTERS SUPPORT.....	79,565	94,965
165 TRAINING DEVICES, NONSYSTEM.....	174,644	174,644
166 SYNTHETIC TRAINING ENVIRONMENT (STE).....	122,104	92,266
168 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING.....	11,642	11,642
TEST MEASURE AND DIG EQUIPMENT (TMD)		
170 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE).....	42,934	42,934
172 TEST EQUIPMENT MODERNIZATION (TEMOD).....	24,304	24,304
OTHER SUPPORT EQUIPMENT		
174 PHYSICAL SECURITY SYSTEMS (OPA3).....	86,930	91,930
175 BASE LEVEL COM'L EQUIPMENT.....	27,823	27,823

84E

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
176 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3).....	32,392	42,392
177 BUILDING, PRE-FAB, RELOCATABLE.....	32,227	32,227
179 SPECIAL EQUIPMENT FOR TEST AND EVALUATION.....	76,917	76,917
TOTAL, OTHER SUPPORT EQUIPMENT.....	2,103,168	2,303,441
SPARE AND REPAIR PARTS		
180 INITIAL SPARES - C&E.....	9,272	9,272
181 TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEMS...	---	10,000
TOTAL, OTHER PROCUREMENT, ARMY.....	8,873,558	9,453,524

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 SEMITRAILERS, FLATBED	12,539	11,239
Unit cost growth		-1,300
4 HI MOB MULTI-PURP WHLD VEH (HMMWV)	60,706	120,706
Program increase		60,000
5 GROUND MOBILITY VEHICLES (GMV)	29,807	44,807
Program increase - Infantry Squad Vehicle		15,000
6 ARNG HMMWV MODERNIZATION PROGRAM	0	100,000
Program increase		100,000
9 TRUCK, DUMP, 20T (CCE)	9,882	29,382
Program increase		19,500
10 FAMILY OF MEDIUM TACTICAL VEH (FMTV)	36,885	61,885
Program increase		25,000
13 FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)	64,282	173,282
Program increase		109,000
18 MODIFICATION OF IN SVC EQUIP	29,349	212,349
Program increase - HMMWV ABS/ESC retrofit kits		183,000
20 PASSENGER CARRYING VEHICLES	1,232	0
Reduce carryover		-1,232
21 NONTACTICAL VEHICLES, OTHER	24,246	19,246
Excess carryover		-5,000
23 TACTICAL NETWORK TECHNOLOGY MOD IN SVC	436,524	433,124
SATCOM obsolescence		-7,500
Program increase - Joint CONUS communications support environment satellite communications upgrade		4,100
29 DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS	97,369	90,928
EWS terminal MOD justification discrepancies		-6,441
30 TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	120,550	132,050
Program increase - T2C2 heavy		11,500
32 ASSURED POSITIONING, NAVIGATION AND TIMING	115,291	112,791
Spares and repairs previously funded		-2,500
38 HANDHELD MANPACK SMALL FORM FIT (HMS)	775,069	724,099
Unit cost increase		-10,899
Support costs excess		-5,000
IVAS SCDR ahead of need		-35,071

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P-1	Budget Request	Final Bill
43 COTS COMMUNICATIONS EQUIPMENT Unit cost growth	191,702	185,302 -6,400
45 ARMY COMMUNICATIONS & ELECTRONICS Insufficient justification	89,441	79,441 -10,000
56 SIO CAPABILITY Insufficient justification	21,303	17,303 -4,000
60 INFORMATION SYSTEMS Reduce carryover	219,026	214,026 -5,000
64 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM EUCOM costs previously funded	223,001	218,001 -5,000
73 MOD OF IN-SVC EQUIP (INTEL SPT) Program increase - Prophet Enhanced ESP	39,039	51,039 12,000
83 NIGHT VISION DEVICES Laser target locator systems anticipated savings IVAS ahead of need Transfer to RDTE, A line 57 for IVAS development Program increase - ENVG-B Program increase - laser target locator	1,092,341	667,377 -2,140 -393,724 -55,000 17,000 8,900
89 COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS) Program increase	60,058	434,058 374,000
90 JOINT BATTLE COMMAND - PLATFORM (JBC-P) Unit cost growth	263,661	253,661 -10,000
96 COUNTERFIRE RADARS Facilitization costs excess request	31,694	26,694 -5,000
100 IAMD BATTLE COMMAND SYSTEM Costs previously funded	301,872	296,872 -5,000
107 MOD OF IN-SVC EQUIPMENT (ENFIRE) Program increase - land surveying systems	3,160	14,560 11,400
108 ARMY TRAINING MODERNIZATION Program increase - CUAS training facility	9,833	12,333 2,500
110 ACCESSIONS INFORMATION ENVIRONMENT (AIE) Excess growth	44,635	39,635 -5,000
113 CONTRACT WRITING SYSTEM Program growth	16,957	14,957 -2,000
118 FAMILY OF NON-LETHAL EQUIPMENT (FNLE) Program increase - acoustic hailing device Program increase - CEWs	0	27,000 20,000 7,000

84H

P-1	Budget Request	Final Bill
119 BASE DEFENSE SYSTEMS (BDS) Requirement no longer valid	62,295	14,220 -48,075
123 TACTICAL BRIDGE, FLOAT-RIBBON Unit cost growth	76,082	74,182 -1,900
131 ROBOTICS AND APPLIQUE SYSTEMS Prior year execution delays	124,233	119,233 -5,000
134 HEATERS AND ECU'S Contract delays	7,116	6,116 -1,000
139 FORCE PROVIDER Program increase - expeditionary shelter protection systems	28,860	38,860 10,000
140 FIELD FEEDING EQUIPMENT Program increase - multi-temperature refrigerated container program	2,321	12,321 10,000
141 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM ATPS cost growth	40,240	37,040 -3,200
146 COMBAT SUPPORT MEDICAL Program increase - AMEDDS hospital program	122,145	132,145 10,000
147 MOBILE MAINTENANCE EQUIPMENT SYSTEMS Program increase - next generation HMMWV shop equipment contact maintenance vehicle	14,756	134,756 120,000
156 CONST EQUIP ESP Program increase - high mobility engineer excavator SLEP	8,694	18,694 10,000
158 ARMY WATERCRAFT ESP Program increase - watercraft modernization service life extension program	44,409	58,009 13,600
161 GENERATORS AND ASSOCIATED EQUIP Program increase - AMMPS	47,606	105,892 58,286
164 COMBAT TRAINING CENTERS SUPPORT Program increase - INDOPACOM Pacific multi-domain training and experimentation capability	79,565	94,965 15,400
166 SYNTHETIC TRAINING ENVIRONMENT (STE) RVCT ahead of need	122,104	92,266 -29,838
174 PHYSICAL SECURITY SYSTEMS (OPA3) Program increase - biometric fast lanes	86,930	91,930 5,000
176 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) Program increase - RTCH modernization	32,392	42,392 10,000
181 TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEMS Program increase - active hearing protection	0	10,000 10,000

84I

AIRCRAFT PROCUREMENT, NAVY

The agreement provides \$17,799,321,000 for Aircraft Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (85A-F)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, NAVY			
COMBAT AIRCRAFT			
1	F/A-18E/F (FIGHTER) HORNET (MYP).....	87,832	977,161
3	JOINT STRIKE FIGHTER CV.....	2,108,645	2,088,924
4	JOINT STRIKE FIGHTER CV (AP-CY).....	249,145	185,695
5	JSF STOVL.....	2,256,735	2,189,283
6	JSF STOVL (AP-CY).....	216,814	216,814
7	CH-53K (HEAVY LIFT)	1,286,264	1,486,394
8	CH-53K (HEAVY LIFT) (AP-CY).....	182,903	182,903
9	V-22 (MEDIUM LIFT).....	751,716	1,064,027
11	UH-1Y/AH-1Z.....	939	939
13	P-8A POSEIDON.....	44,595	44,595
14	E-2D ADV HAWKEYE	765,945	749,619
15	E-2D ADV HAWKEYE (AP-CY).....	118,938	118,938
TOTAL, COMBAT AIRCRAFT.....		8,070,471	9,305,292

TRAINER AIRCRAFT			
16	ADVANCED HELICOPTER TRAINING SYSTEM.....	163,490	163,490
TOTAL, TRAINER AIRCRAFT.....		163,490	163,490

OTHER AIRCRAFT			
17	KC-130J.....	520,787	512,289
18	KC-130J (AP-CY).....	68,088	68,088
21	MQ-4 TRITON.....	160,151	483,151
23	MQ-8 UAV.....	49,249	49,249
24	STUASLO UAV.....	13,151	13,151
25	MQ-25 (AP-CY).....	47,468	47,468
27	MARINE GROUP 5 UAS.....	233,686	272,666
TOTAL, OTHER AIRCRAFT.....		1,092,580	1,446,062

MODIFICATION OF AIRCRAFT			
30	F-18 A-D UNIQUE.....	163,095	162,095
31	F-18E/F AND EA-18G MODERNIZATION AND SUSTAIN.....	482,899	445,721
32	MARINE GROUP 5 UAS SERIES.....	1,982	1,982
33	AEA SYSTEMS.....	23,296	20,221
34	AV-8 SERIES.....	17,882	14,793
35	INFRARED SEARCH AND TRACK (IRST).....	138,827	120,377

85A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
36 ADVERSARY	143,571	137,930
37 F-18 SERIES	327,571	324,399
38 H-53 SERIES	112,436	109,106
39 MH-60 SERIES	94,794	94,794
40 H-1 SERIES	124,194	118,857
41 EP-3 SERIES	28,848	28,848
42 E-2 SERIES	204,826	199,991
43 TRAINER A/C SERIES	7,849	7,849
44 C-2A	2,843	2,843
45 C-130 SERIES	145,610	142,610
46 FEWSG	734	734
47 CARGO/TRANSPORT A/C SERIES	10,682	5,371
48 E-6 SERIES	128,029	113,301
49 EXECUTIVE HELICOPTERS SERIES	45,326	40,158
51 T-45 SERIES	158,772	155,579
52 POWER PLANT CHANGES	24,915	24,915
53 JPATS SERIES	22,955	20,958
54 AVIATION LIFE SUPPORT MODS	2,477	2,477
55 COMMON ECM EQUIPMENT	119,574	119,574
56 COMMON AVIONICS CHANGES	118,839	103,006
57 COMMON DEFENSIVE WEAPON SYSTEM	5,476	5,476
58 ID SYSTEMS	13,154	13,154
59 P-8 SERIES	131,298	115,998
60 MAGTF EW FOR AVIATION	29,151	29,151
61 MQ-8 SERIES	31,624	31,624
62 V-22 (TILT/ROTOR ACFT) OSPREY	312,835	310,512
63 NEXT GENERATION JAMMER (NGJ)	266,676	255,393
64 F-35 STOVL SERIES	177,054	161,776
65 F-35 CV SERIES	138,269	118,933
66 QUICK REACTION CAPABILITY (QRC)	98,563	93,563

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
67 MQ-4 SERIES.....	7,100	7,100
68 RQ-21 SERIES.....	14,123	14,123
TOTAL, MODIFICATION OF AIRCRAFT.....	3,878,149	3,675,292
AIRCRAFT SPARES AND REPAIR PARTS		
72 SPARES AND REPAIR PARTS.....	2,339,077	2,295,603
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		
73 COMMON GROUND EQUIPMENT.....	517,267	497,438
74 AIRCRAFT INDUSTRIAL FACILITIES.....	80,500	80,500
75 WAR CONSUMABLES.....	42,496	42,496
76 OTHER PRODUCTION CHARGES.....	21,374	21,374
77 SPECIAL SUPPORT EQUIPMENT.....	271,774	271,774
TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES..	933,411	913,582
TOTAL, AIRCRAFT PROCUREMENT, NAVY.....	16,477,178	17,799,321

(X5)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 F/A-18E/F (FIGHTER) HORNET	87,832	977,161
Production line shutdown early to need		-10,671
Program increase - 12 additional aircraft		900,000
3 JOINT STRIKE FIGHTER CV	2,108,645	2,088,924
Fixed JPO support excess growth		-19,721
4 JOINT STRIKE FIGHTER CV (AP-CY)	249,145	185,695
CFE - long lead excess to need		-63,450
5 JSF STOVL	2,256,735	2,189,283
Engines unit cost growth		-33,864
Fixed JPO support excess growth		-43,588
Non-recurring cost growth		-40,000
Program increase - depot acceleration		50,000
7 CH-53K (HEAVY LIFT)	1,286,264	1,486,394
NRE production capacity excess growth		-7,000
Airframe PGSE previously funded		-5,339
Engine PGSE previously funded		-4,370
Pubs/tech data previously funded		-14,782
Other ILS excess growth		-12,379
GFE growth		-6,000
Program increase - two additional aircraft		250,000
9 V-22 (MEDIUM LIFT)	751,716	1,064,027
Support costs previously funded		-7,689
Program increase - four additional MV-22		320,000
14 E-2D ADV HAWKEYE	765,945	749,619
Avionics PGSE excess growth		-8,776
Other ILS excess growth		-7,550
17 KC-130J	520,787	512,289
NRE previously funded		-1,120
Unit cost growth		-7,378
21 MQ-4 TRITON	160,151	483,151
Program increase - two additional aircraft		323,000
27 MARINE GROUP 5 UAS	233,686	272,666
Airframe excess unit cost		-1,020
Program increase - two additional aircraft		40,000
30 F-18 A-D UNIQUE	163,095	162,095
F/A-18 aircraft structural life management plan (OSIP 11-99) inner wing installation excess cost growth		-1,000

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P-1	Budget Request	Final Bill
31 F-18E/F AND EA-18G MODERNIZATION AND SUSTAINMENT	482,899	445,721
EA-18G unique (OSIP 011-10) support equipment excess growth		-2,987
EA-18G unique (OSIP 011-10) ECP 6482 processor unit early to need		-5,312
EA-18G unique (OSIP 011-10) ECP 6482 digital measure receiver early to need		-17,868
EA-18G unique (OSIP 011-10) ECP 6482 power supply early to need		-864
E/F and EA-18G correction of deficiencies (OSIP 14-03) E/F A-kits early to need		-10,147
33 AEA SYSTEMS	23,296	20,221
Excess support costs		-3,075
34 AV-8 SERIES	17,882	14,793
Obsolescence replacement (OSIP 006-06) other support costs prior year carryover		-3,089
35 INFRARED SEARCH AND TRACK (IRST)	138,827	120,377
Reduction of four units/limit production growth		-18,450
36 ADVERSARY	143,571	137,930
F-16 SLEP (OSIP 011-21) Falcon STAR excess NRE		-5,641
37 F-18 SERIES	327,571	324,399
Core avionics improvements/upgrades (OSIP 023-04) SCS previously funded		-2,033
SUU-63 unit cost growth (OSIP 10-16)		-1,139
38 H-53 SERIES	112,436	109,106
T-64 engine fuel controls (OSIP 010-05) previously funded		-3,330
40 H-1 SERIES	124,194	118,857
ECS thermal kits (OSIP 013-14) unit cost growth		-2,350
ECS thermal kits (OSIP 013-14) installation previously funded		-1,500
Floorboards upgrade kits (OSIP 013-14) installation excess cost		-1,487
42 E-2 SERIES	204,826	199,991
NAVWAR A-kit installation (OSIP 011-19) previously funded		-1,250
Electronic support measures (OSIP 007-21) previously funded		-1,785
Electronic support measures (OSIP 007-21) excess installation costs		-1,800
45 C-130 SERIES	145,610	142,610
Installation cost growth		-3,000
47 CARGO/TRANSPORT A/C SERIES	10,682	5,371
Modifications (OSIP 012-04) previously funded		-5,311
48 E-6 SERIES	128,029	113,301
Phase 1 AC electrical B-kit (OSIP 003-04) previously funded		-1,600
MR-TCDL B-kits installation delay (OSIP 013-10)		-7,785
APU A-kits installation delay (OSIP 002-12)		-2,834
FAB-T/PNVC installation delay (OSIP 014-14)		-2,509

(USE)

P-1	Budget Request	Final Bill
49 EXECUTIVE HELICOPTER SERIES	45,326	40,158
Shipboard interoperability (OSIP 006-21) previously funded		-5,168
51 T-45 SERIES	158,772	155,579
Airframe structural installation cost growth (OSIP 008-95)		-1,712
GGU-25 kits installation early to need (OSIP 012-19)		-1,481
53 JPATS SERIES	22,955	20,958
Airframe emergent ECP excess to need (OSIP 008-20)		-1,997
56 COMMON AVIONICS CHANGES	118,839	103,006
NAVWAR installation kits cost growth (OSIP 71-88)		-992
NAVWAR installation equipment cost growth (OSIP 71-88)		-1,223
Training equipment previously funded (OSIP 21-01)		-2,400
AvCIP installation equipment NRE (OSIP 11-09) previously funded		-2,232
Secure communications installation kits (OSIP 10-19) previously funded		-1,733
Secure communications installation equipment cost growth (OSIP 10-19)		-2,253
Installation equipment NRE excess growth (OSIP 06-20)		-5,000
59 P-8 SERIES	131,298	115,998
Program delays		-15,300
62 V-22 (TILT/ROTOR ACFT) OSPREY	312,835	310,512
Drive link/proprotor hub spring change (OSIP 028-12) previously funded		-2,323
63 NEXT GENERATION JAMMER (NGJ)	266,676	255,393
Other support (OSIP 002-19) excess growth		-3,000
Support equipment (OSIP 002-19) previously funded		-4,263
Training equipment (OSIP 002-19) previously funded		-4,020
64 F-35 STOVL SERIES	177,054	161,776
Block 4 B kits early to need		-10,204
A-kits cost growth (OSIP 009-21)		-5,074
65 F-35 CV SERIES	138,269	118,933
Block 4 B-kits schedule delay (OSIP 011-20)		-16,650
Vehicle systems installation excess growth (OSIP 001-21)		-2,686
66 QRC	98,563	93,563
Unjustified growth		-5,000
72 SPARES AND REPAIR PARTS	2,339,077	2,295,603
Aviation outfitting accounts spares excess growth		-171,385
Program increase - four F-35B engines		117,800
Program increase - KC130J weapons system trainer initial spares		3,111
Program increase - KC130J initial spares		7,000
73 COMMON GROUND EQUIPMENT	517,267	497,438
USMC fed sim ADVTE modernization previously funded		-10,187
USMC fed sim MV-22 CFTD modernization previously funded		-6,000
NASMP common simulation models upgrade previously funded		-3,642

(25F)

NAVY ADVERSARY AIRCRAFT FOR TRAINING PURPOSES

The agreement directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act which provides a description of the current air aggressor fleet, an identification of any risk incurred by the continued use of legacy aircraft, and a plan to complete the transition of all Navy Reserve aggressor squadrons to a more capable aircraft fleet over a ten-year period.

NAVY RESERVE AVIATION MODERNIZATION

The agreement directs the Secretary of the Navy to provide a plan to modernize Navy Reserve aviation squadrons with F/A-18E/F or other modern aircraft, such as F-35Cs, and to brief the plan, to include the anticipated costs to implement the plan, along with impacts on personnel and manning levels at each squadron, to the congressional defense committees not later than 90 days after the enactment of this Act.

WEAPONS PROCUREMENT, NAVY

The agreement provides \$3,982,657,000 for Weapons Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (87A-D)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL	
WEAPONS PROCUREMENT, NAVY			
BALLISTIC MISSILES			
MODIFICATION OF MISSILES			
1	TRIDENT II MODS.....	1,144,446 1,120,241	
SUPPORT EQUIPMENT AND FACILITIES			
2	MISSILE INDUSTRIAL FACILITIES.....	7,319 7,319	
TOTAL, BALLISTIC MISSILES.....			1,151,765 1,127,560
OTHER MISSILES			
STRATEGIC MISSILES			
3	TOMAHAWK.....	124,513 139,983	
TACTICAL MISSILES			
5	SIDEWINDER.....	86,366 78,606	
6	STANDARD MISSILE.....	521,814 515,314	
7	STANDARD MISSILE (AP-CY).....	45,357 45,357	
8	JASSM.....	37,039 ---	
9	SMALL DIAMETER BOMB II.....	40,877 33,764	
10	RAM.....	92,981 73,015	
11	JOINT AIR GROUND MISSILE (JAGM).....	49,702 46,702	
12	HELLFIRE.....	7,557 7,557	
13	AERIAL TARGETS.....	150,339 141,446	
14	DRONES AND DECOYS.....	30,321 30,321	
15	OTHER MISSILE SUPPORT.....	3,474 3,474	
16	LRASM.....	161,212 161,212	
17	NAVAL STRIKE MISSILE (NSM).....	59,331 52,377	
MODIFICATION OF MISSILES			
18	TOMAHAWK MODS.....	206,233 172,074	
19	ESSM.....	248,619 248,619	
21	AARGM.....	116,345 109,835	
22	STANDARD MISSILES MODS.....	148,834 130,482	
SUPPORT EQUIPMENT AND FACILITIES			
23	WEAPONS INDUSTRIAL FACILITIES.....	1,819 11,819	

87A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
26	ORDNANCE SUPPORT EQUIPMENT ORDNANCE SUPPORT EQUIPMENT.....	191,905 143,089
	TOTAL, OTHER MISSILES.....	2,324,638 2,145,046
27	TORPEDOES AND RELATED EQUIPMENT TORPEDOES AND RELATED EQUIP SSTD.....	4,545 4,545
28	MK-48 TORPEDO.....	159,107 130,972
29	ASW TARGETS.....	13,630 13,630
30	MOD OF TORPEDOES AND RELATED EQUIP MK-54 TORPEDO MODS.....	106,112 94,168
31	MK-48 TORPEDO ADCAP MODS.....	35,680 27,987
32	MARITIME MINES.....	8,567 8,567
33	SUPPORT EQUIPMENT TORPEDO SUPPORT EQUIPMENT.....	93,400 90,832
34	ASW RANGE SUPPORT.....	3,997 3,997
35	DESTINATION TRANSPORTATION FIRST DESTINATION TRANSPORTATION.....	4,023 4,023
	TOTAL, TORPEDOES AND RELATED EQUIPMENT.....	429,061 378,721
36	OTHER WEAPONS GUNS AND GUN MOUNTS SMALL ARMS AND WEAPONS.....	14,909 12,461
37	MODIFICATION OF GUNS AND GUN MOUNTS CIWS MODS.....	6,274 6,274
38	COAST GUARD WEAPONS.....	45,958 45,958
39	GUN MOUNT MODS.....	68,775 93,775
40	LCS MODULE WEAPONS.....	2,121 2,121
41	AIRBORNE MINE NEUTRALIZATION SYSTEMS.....	14,822 14,822
	TOTAL, OTHER WEAPONS.....	152,859 175,411
43	SPARES AND REPAIR PARTS.....	162,382 155,919
	TOTAL, WEAPONS PROCUREMENT, NAVY.....	4,220,705 3,982,657

87B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 TRIDENT II MODS	1,144,446	1,120,241
Guidance production support excess growth		-10,000
SPALT assemblies unjustified request		-5,000
Shape stable nose tip excess growth		-2,400
Production support/missile hardware excess growth		-6,805
3 TOMAHAWK	124,513	139,983
MK14 canisters previously funded		-1,900
Program increase - ten additional tomahawks		17,370
5 SIDEWINDER	86,366	78,606
AUR Block II contract award delay		-6,700
CATM Block II contract award delay		-1,060
6 STANDARD MISSILE	521,814	515,314
Diminishing manufacturing sources delays		-6,500
8 JASSM	37,039	0
Early to need		-37,039
9 SMALL DIAMETER BOMB II	40,877	33,764
Contract award savings		-7,113
10 RAM	92,981	73,015
Contract award delay		-19,966
11 JOINT AIR GROUND MISSILE (JAGM)	49,702	46,702
AUR unit cost growth		-3,000
13 AERIAL TARGETS	150,339	141,446
EM441 install/mission kits previously funded		-625
EM203 GQM-163A contract award delay		-8,268
17 NAVAL STRIKE MISSILE (NSM)	59,331	52,377
Contract award delay		-6,954
18 TOMAHAWK MODS	206,233	172,074
Classified adjustment		-34,159
21 AARGM	116,345	109,835
AARGM-ER excess ILS costs		-3,011
AARGM-ER excess facilitization costs		-3,499

(87C)

P-1	Budget Request	Final Bill
22 STANDARD MISSILE MODS	148,834	130,482
SM-2 Block IIIC contract award delay		-7,335
SM-2 Block IIIC canisters contract award delay		-2,206
SM-2 Block IIIA2 modifications contract award delay		-1,983
Diminishing manufacturing resources excess to need		-6,828
23 WEAPONS INDUSTRIAL FACILITIES	1,819	11,819
Program increase		10,000
26 ORDNANCE SUPPORT EQUIPMENT	191,905	143,089
Classified adjustment		-48,816
28 MK-48 TORPEDO	159,107	130,972
Guidance and control section contract award delay		-21,656
Warhead electronics contract award delay		-3,849
Installation previously funded		-2,630
30 MK-54 TORPEDO MODS	106,112	94,168
HAAWC contract award delay		-11,944
31 MK-48 TORPEDO ADCAP MODS	35,680	27,987
CBASS kits unit cost growth		-3,563
CBASS installation previously funded		-4,130
33 TORPEDO SUPPORT EQUIPMENT	93,400	90,832
Replacement warshot afterbodies contract award delay		-2,568
36 SMALL ARMS AND WEAPONS	14,909	12,461
SU-289/PVQ variable combat optical gunsight early to need		-1,108
Crew served weapons optics early to need		-1,340
39 GUN MOUNT MODS	68,775	93,775
Program increase - operator ballistic protection for crew-served weapons		25,000
43 SPARES AND REPAIR PARTS	162,382	155,919
Tomahawk spares excess growth		-5,259
RAM spares excess growth		-1,204

(27D)

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

The agreement provides \$845,289,000 for Procurement of Ammunition, Navy and Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (88 A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMO, NAVY & MARINE CORPS		
PROC AMMO, NAVY		
NAVY AMMUNITION		
1 GENERAL PURPOSE BOMBS.....	48,635	43,424
2 JDAM.....	74,140	48,526
3 AIRBORNE ROCKETS, ALL TYPES.....	75,383	75,383
4 MACHINE GUN AMMUNITION.....	11,215	11,215
5 PRACTICE BOMBS.....	52,225	50,084
6 CARTRIDGES & CART ACTUATED DEVICES.....	70,876	68,387
7 AIR EXPENDABLE COUNTERMEASURES.....	61,600	56,249
8 JATOS.....	6,620	6,620
9 5 INCH/54 GUN AMMUNITION.....	28,922	25,923
10 INTERMEDIATE CALIBER GUN AMMUNITION.....	36,038	28,610
11 OTHER SHIP GUN AMMUNITION.....	39,070	34,949
12 SMALL ARMS & LANDING PARTY AMMO.....	45,493	37,995
13 PYROTECHNIC AND DEMOLITION.....	9,163	8,757
15 AMMUNITION LESS THAN \$5 MILLION.....	1,575	790

TOTAL, PROC AMMO, NAVY.....	560,955	496,912
PROC AMMO, MARINE CORPS		
MARINE CORPS AMMUNITION		
16 MORTARS.....	50,707	41,228
17 DIRECT SUPPORT MUNITIONS.....	120,037	114,153
18 INFANTRY WEAPONS AMMUNITION.....	94,001	67,088
19 COMBAT SUPPORT MUNITIONS.....	35,247	26,386
20 AMMO MODERNIZATION.....	16,267	15,144
21 ARTILLERY MUNITIONS.....	105,669	79,243
22 ITEMS LESS THAN \$5 MILLION.....	5,135	5,135

TOTAL, PROC AMMO, MARINE CORPS.....	427,063	348,377
=====		
TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS.....	988,018	845,289
=====		

(88A)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 GENERAL PURPOSE BOMBS	48,635	43,424
Q2898 BLU-137 NRE excess to need		-5,211
2 JDAM	74,140	48,526
Contract award delay		-25,614
5 PRACTICE BOMBS	52,225	50,084
Q1300 LGTR unit cost savings		-2,141
6 CARTRIDGES & CART ACTUATED DEVICES	70,876	68,387
Thermal batteries previously funded		-514
MK122 parachute deploy rocket MT29 units previously funded		-1,975
7 AIR EXPENDABLE COUNTERMEASURES	61,600	56,249
IR decoys previously funded		-4,351
IR decoys acceptance test and evaluation excess growth		-500
RR-198AL and RR-199AL contract award delays		-500
9 5 INCH/54 GUN AMMUNITION	28,922	25,923
Renovation components unjustified request		-2,000
5"/54 prop charge, full DA65 unit cost growth		-999
10 INTERMEDIATE CALIBER GUN AMMUNITION	36,038	28,610
CART, .57MM HE-PD previously funded		-7,428
11 OTHER SHIP GUN AMMUNITION	39,070	34,949
30MM APFSDS-T cartridge contract award delay		-1,034
20MM MK244 ELC cartridge unit cost growth		-3,087
12 SMALL ARMS & LANDING PARTY AMMO	45,493	37,995
NSW SMCA previously funded		-1,298
Integrated warfare systems .50 cal cartridges unit cost growth		-1,000
Integrated warfare systems 7.66MM cartridges unit cost growth		-639
G881 grenade, hand frag NSW excess to need		-916
9MM MMR green primer (red) excess to need		-405
NSW .50 cal linked ball MK322 Mod 1/TRAC previously funded		-3,240
13 PYROTECHNIC AND DEMOLITION	9,163	8,757
NSW SIM hand grenade unit cost growth		-406
15 AMMUNITION LESS THAN \$5 MILLION	1,575	790
Contract award delays		-785
16 MORTARS	50,707	41,228
Mortar 81MM HE Frag unjustified growth		-9,479
17 DIRECT SUPPORT MUNITIONS	120,037	114,153
Various munitions unit cost growth		-4,004
20MM Carl Gustaf trainer system excess to need		-1,880

(88B)

P-1	Budget Request	Final Bill
18 INFANTRY WEAPONS AMMUNITION	94,001	67,088
BA54 and BA55 termination		-30,742
AC55 XM1198 unit cost growth		-1,340
25MM TPDS-T linked M910 unit cost growth		-1,031
Program increase - Mk281 mod 3		6,200
19 COMBAT SUPPORT MUNITIONS	35,247	26,386
ML25 M59A1 linear demolition charge excess to need		-7,880
DWHH MK18 electric blasting cap excess to need		-981
20 AMMO MODERNIZATION	16,267	15,144
Excess program growth		-1,123
21 ARTILLERY MUNITIONS	105,669	79,243
DA67 unit cost growth		-2,462
DA529 M795 metal parts carryover		-16,031
DA529 wooden pallets carryover		-632
155MM (MACS) M32A2 excess to need		-7,301

28C

ALIGNING THE NAVAL MUNITIONS REQUIREMENTS PROCESS WITH ACQUISITION

The agreement directs the Secretary of the Navy to study the sequencing of the Naval Munitions Requirement Process in relation to the development of its annual budget request and to submit a report to the congressional defense committees on its findings and recommendations not later than 90 days after the enactment of this Act.

SHIPBUILDING AND CONVERSION, NAVY

The agreement provides \$26,664,526,000 for Shipbuilding and Conversion, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (90A-D)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
SHIPBUILDING & CONVERSION, NAVY		
FLEET BALLISTIC MISSILE SHIPS		
1 COLUMBIA CLASS SUBMARINE.....	3,003,000	3,003,000
2 COLUMBIA CLASS SUBMARINE (AP-CY).....	1,643,980	1,773,980
OTHER WARSHIPS		
3 CARRIER REPLACEMENT PROGRAM (CVN 80).....	1,068,705	1,062,205
4 CARRIER REPLACEMENT PROGRAM (CVN 81).....	1,299,764	1,287,719
5 VIRGINIA CLASS SUBMARINE.....	4,249,240	4,234,240
6 VIRGINIA CLASS SUBMARINE (AP-CY).....	2,120,407	2,105,407
7 CVN REFUELING OVERHAUL.....	2,456,018	2,424,218
8 CVN REFUELING OVERHAULS (AP-CY).....	66,262	66,262
9 DDG 1000.....	56,597	56,597
10 DDG-51.....	2,016,787	3,675,987
11 DDG-51 (AP-CY).....	---	120,000
13 FFG-FRIGATE.....	1,087,900	1,090,900
14 FFG-FRIGATE (AP-CY).....	69,100	---
TOTAL, OTHER WARSHIPS.....	14,490,780	16,123,535
AMPHIBIOUS SHIPS		
15 LPD FLIGHT II.....	60,636	60,636
16 LPD 32 (AP).....	---	250,000
17 EXPEDITIONARY SEA BASE (ESB).....	---	577,000
19 LHA REPLACEMENT.....	68,637	68,637
20 EXPEDITIONARY FAST TRANSPORT.....	---	590,000
TOTAL, AMPHIBIOUS SHIPS.....	129,273	1,546,273
AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS		
21 TAO FLEET OILER.....	668,184	1,463,784
22 TAO FLEET OILER (AP-CY).....	76,012	---
23 TAGOS SURTASS SHIPS.....	434,384	434,384
24 TOWING, SALVAGE, AND RESCUE SHIP (ATS).....	183,800	183,800
25 LCU 1700.....	67,928	67,928
26 OUTFITTING.....	655,707	614,731
27 SHIP TO SHORE CONNECTOR.....	156,738	391,838
28 SERVICE CRAFT.....	67,866	67,866
29 LCAC SLEP.....	32,712	32,712

(914)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
30 AUXILIARY VESSELS	299,900	299,900
31 COMPLETION OF PY SHIPBUILDING PROGRAMS	660,795	660,795

TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM	3,304,026	4,217,738
	=====	=====
TOTAL, SHIPBUILDING & CONVERSION, NAVY	22,571,059	26,664,526
	=====	=====

(70E)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 COLUMBIA CLASS SUBMARINE (AP-CY)	1,643,980	1,773,980
SSBN 827 AP (IFF FY24-25)	[1,251,428]	[1,251,428]
SSBN 828 AP (FF FY26)	[149,899]	[149,899]
SSBN 829 AP (FF FY27)	[77,973]	[77,973]
SSBN 830 AP (FF FY28)	[10,667]	[10,667]
SSBN 831 AP (FF FY29)	[2,241]	[2,241]
SSBN 832 AP (FF FY30)	[892]	[892]
SSBN 833 AP (FF FY31)	[893]	[893]
SSBN 834 AP (FF FY32)	[892]	[892]
SSBN 835 AP (FF FY33)	[892]	[892]
SSBN 836 AP (FF FY34)	[892]	[892]
SSBN 837 AP (FF FY35)	[147,311]	[147,311]
Program increase - submarine supplier development		130,000
3 CARRIER REPLACEMENT PROGRAM (CVN 80)	1,068,705	1,062,205
Basic construction growth		-6,500
4 CARRIER REPLACEMENT PROGRAM (CVN-81)	1,299,764	1,287,719
Automatic carrier landing system early to need		-7,872
Air traffic control system early to need		-4,173
5 VIRGINIA CLASS SUBMARINE	4,249,240	4,234,240
Unjustified request		-15,000
6 VIRGINIA CLASS SUBMARINE (AP-CY)	2,120,407	2,105,407
Long-lead time CFE for two-year AP early to need		-15,000
SSN 810 AP (FF FY23)	[305,960]	[305,960]
SSN 811 AP (FF FY23)	[305,960]	[305,960]
SSN 812 AP (FF FY24)	[754,244]	[754,244]
SSN 813 AP (FF FY24)	[754,254]	[754,254]
7 CVN REFUELING OVERHAULS	2,456,018	2,424,218
Excess growth		-20,000
Program decrease		-11,800
8 CVN REFUELING OVERHAULS (AP-CY)	66,262	66,262
CVN 75 AP (IFF in FY25-26)	[66,262]	[66,262]
10 DDG-51	2,016,787	3,675,987
Program increase - one additional DDG-51		1,659,200
11 DDG-51 (AP-CY)	0	120,000
Program increase - advance procurement for DDG-51		120,000
13 FFG-FRIGATE	1,087,900	1,090,900
Program increase - bromine free water systems		3,000

900

P-1	Budget Request	Final Bill
14 FFG-FRIGATE (AP-CY) Advance procurement unjustified request	69,100	0 -69,100
16 LPD FLIGHT II (AP-CY) Program increase - advance procurement for LPD-32	0	250,000 250,000
17 EXPEDITIONARY SEA BASE (ESB) Program increase - expeditionary sea base	0	577,000 577,000
20 EXPEDITIONARY FAST TRANSPORT (EPF) Program increase - one additional EMS Program increase - one additional EPF	0	590,000 330,000 260,000
21 TAO FLEET OILER Program increase - one additional T-AO Fleet Oiler Program increase - affordability initiatives	668,184	1,463,784 775,600 20,000
22 TAO FLEET OILER (AP-CY) Unjustified request	76,012	0 -76,012
26 OUTFITTING Outfitting early to need Post-delivery early to need	655,707	614,731 -32,781 -8,195
27 SHIP TO SHORE CONNECTOR Program increase - three additional SSC	156,738	391,838 235,100

SUBMARINE INDUSTRIAL BASE INVESTMENTS

The agreement provides \$35,000,000 for submarine industrial base investments in order to support facilities infrastructure at submarine production shipyards. Further, it is understood that the Navy and the shipbuilders are committed to jointly resourcing the capital investments necessary to meet the Navy's goal of building two VIRGINIA Class submarines per year during construction of COLUMBIA Class submarines.

The Secretary of the Navy is directed to provide a report to the congressional defense committees with the submission of the fiscal year 2023 President's budget request, on the execution plan, inclusive of outyear cost share arrangements, for the facilities supported by this funding. Further, the Secretary of the Navy is directed to provide to the congressional defense committees details on additionally planned Navy and shipyard investments for submarine industrial base shipyards in the Future Years Defense Program accompanying the fiscal year 2023 President's budget request.

CONSTELLATION CLASS FRIGATE

The agreement notes that the detail design and construction contract for FFG-62 USS CONSTELLATION, the first ship of the class, CONSTELLATION Class Frigate (CCF), was awarded in April 2021. While the CCF is based on a proven hull design and mature shipboard technologies, it remains a new class and the Navy and the shipbuilding industrial base have had past production challenges in managing costs, technical concurrency, design changes and schedule of lead ships of a class. There is concern that prematurely adding a second CCF shipyard before the first shipyard has identified and corrected technical and production issues will inject unneeded risk and complexity into the program. Therefore, prior to award of a contract for second CCF shipyard, the agreement directs the Navy to prioritize the following objectives: technology maturation and risk reduction for critical shipboard components; major systems integration; full ship

technical data package creation; and successful operationally realistic testing for the first ship. The agreement further directs the Secretary of the Navy to submit a report 90 days prior to awarding a contract for the second CCF shipyard to the congressional defense committees outlining the acquisition strategy for achieving the full Frigate Program of Record and meeting these technology maturation and risk reduction objectives.

COLUMBIA CLASS SUBMARINES

The agreement notes that the fiscal year 2022 President's budget request includes \$4,646,980,000 for the incrementally funded procurement of the first COLUMBIA Class submarine (CLB) and advance procurement (AP) of eleven additional hulls of the COLUMBIA Class. Included in the fiscal year 2022 President's budget request for AP is \$247,960,000 to implement Integrated Enterprise Plan (IEP) initiatives that were not identified in prior year budget submissions. The fiscal year 2022 President's budget justification material did not include the future year funding amounts required to implement the IEP initiatives requested in fiscal year 2022. The agreement further notes that the budget submission did not provide sufficient details regarding the future year funding requirements for the IEP initiatives requested in the fiscal year 2022 budget submission and is concerned about a similar lack of transparency for such initiatives requested in future budget submissions. Therefore, the Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to submit to the congressional defense committees the Navy's fully funded IEP initiative strategy, by fiscal year, with the submission of any future President's budget request that includes funding for IEP initiatives.

OTHER PROCUREMENT, NAVY

The agreement provides \$11,072,651,000 for Other Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ 2

INSERT (93A-K)

~~(INSERT PROJECT LEVEL TABLE)~~ 2

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	FINAL BILL
OTHER PROCUREMENT, NAVY			
1	SHIPS SUPPORT EQUIPMENT SHIP PROPULSION EQUIPMENT SURFACE POWER EQUIPMENT.....	41,414	41,414
2	GENERATORS SURFACE COMBATANT HM&E.....	83,746	78,054
3	NAVIGATION EQUIPMENT OTHER NAVIGATION EQUIPMENT.....	72,300	72,300
4	PERISCOPES SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT PROGRAM.....	234,932	209,792
5	OTHER SHIPBOARD EQUIPMENT DDG MOD.....	583,136	535,667
6	FIREFIGHTING EQUIPMENT.....	15,040	13,970
7	COMMAND AND CONTROL SWITCHBOARD.....	2,194	2,194
8	LHA/LHD MIDLIFE.....	133,627	119,428
9	LCC 19/20 EXTENDED SERVICE LIFE PROGRAM.....	4,387	1,401
10	POLLUTION CONTROL EQUIPMENT.....	18,159	18,159
11	SUBMARINE SUPPORT EQUIPMENT.....	88,284	88,284
12	VIRGINIA CLASS SUPPORT EQUIPMENT.....	22,669	22,669
13	LCS CLASS SUPPORT EQUIPMENT.....	9,640	9,640
14	SUBMARINE BATTERIES.....	21,834	21,834
15	LPD CLASS SUPPORT EQUIPMENT.....	34,292	22,093
16	DDG-1000 SUPPORT EQUIPMENT.....	126,107	71,561
17	STRATEGIC PLATFORM SUPPORT EQUIP.....	12,256	12,256
18	DSSP EQUIPMENT.....	10,682	3,282
19	CRUISER MODERNIZATION.....	156,951	138,926
20	LCAC.....	21,314	21,314
21	UNDERWATER EOD PROGRAMS.....	24,146	24,146
22	ITEMS LESS THAN \$5 MILLION.....	84,789	83,545
23	CHEMICAL WARFARE DETECTORS.....	2,997	2,429
25	SHIP MAINTENANCE, REPAIR AND MODERNIZATION.....	1,307,651	1,307,651
26	REACTOR PLANT EQUIPMENT REACTOR POWER UNITS.....	3,270	3,270
27	REACTOR COMPONENTS.....	438,729	438,729

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
28 OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT.....	10,772	10,772
29 SMALL BOATS STANDARD BOATS.....	58,770	57,718
30 PRODUCTION FACILITIES EQUIPMENT OPERATING FORCES IPE.....	168,822	460,822
31 OTHER SHIP SUPPORT LCS COMMON MISSION MODULES EQUIPMENT.....	74,231	63,501
32 LCS MCM MISSION MODULES.....	40,630	30,119
33 LCS ASW MISSION MODULES.....	1,565	1,565
34 LCS SUW MISSION MODULES.....	3,395	3,395
35 LCS IN-SERVICE MODERNIZATION.....	122,591	153,726
36 LOGISTICS SUPPORT SMALL & MEDIUM UUV.....	32,534	44,534
TOTAL, SHIPS SUPPORT EQUIPMENT.....	4,067,856	4,190,160
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		
SHIP SONARS		
38 SPQ-9B RADAR.....	15,927	14,209
39 AN/SQQ-89 SURF ASW COMBAT SYSTEM.....	131,829	126,871
40 SSN ACOUSTICS EQUIPMENT.....	379,850	379,498
41 UNDERSEA WARFARE SUPPORT EQUIPMENT.....	13,965	13,965
ASW ELECTRONIC EQUIPMENT		
42 SUBMARINE ACOUSTIC WARFARE SYSTEM.....	24,578	24,578
43 SSTD.....	11,010	11,010
44 FIXED SURVEILLANCE SYSTEM.....	363,651	363,651
45 SURTASS.....	67,500	67,500
ELECTRONIC WARFARE EQUIPMENT		
46 AN/SLQ-32.....	370,559	360,817
RECONNAISSANCE EQUIPMENT		
47 SHIPBOARD IW EXPLOIT.....	261,735	261,735
48 AUTOMATED IDENTIFICATION SYSTEM (AIS).....	3,777	3,777
OTHER SHIP ELECTRONIC EQUIPMENT		
49 COOPERATIVE ENGAGEMENT CAPABILITY.....	24,641	24,641
50 NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS).....	14,439	14,439
51 ATDLS.....	101,595	101,595

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
52 NAVY COMMAND AND CONTROL SYSTEM (NCCS).....	3,535	3,535
53 MINESWEEPING SYSTEM REPLACEMENT.....	15,640	15,640
54 SHALLOW WATER MCM.....	5,610	5,610
55 NAVSTAR GPS RECEIVERS (SPACE).....	33,097	33,097
56 ARMED FORCES RADIO AND TV.....	2,513	2,513
57 STRATEGIC PLATFORM SUPPORT EQUIP.....	4,823	4,823
AVIATION ELECTRONIC EQUIPMENT		
58 ASHORE ATC EQUIPMENT.....	83,464	82,510
59 AFLOAT ATC EQUIPMENT.....	67,055	65,302
60 ID SYSTEMS.....	46,918	46,918
61 JOINT PRECISION APPROACH AND LANDING SYSTEM.....	35,386	35,386
62 NAVAL MISSION PLANNING SYSTEMS.....	17,951	16,777
OTHER SHORE ELECTRONIC EQUIPMENT		
63 MARITIME INTEGRATED BROADCAST SYSTEM.....	2,360	1,760
64 TACTICAL/MOBILE C41 SYSTEMS.....	18,919	18,919
65 DCGS-N.....	16,691	16,691
66 CANES.....	412,002	412,002
67 RADIAC.....	9,074	7,828
68 CANES-INTELL.....	51,593	51,593
69 GPETE.....	23,930	23,930
70 NETWORK TACTICAL COMMON DATA LINK.....	8,795	8,795
71 INTEG COMBAT SYSTEM TEST FACILITY.....	5,829	5,829
72 EMI CONTROL INSTRUMENTATION.....	3,925	3,925
73 ITEMS LESS THAN \$5 MILLION.....	156,042	87,475
SHIPBOARD COMMUNICATIONS		
74 SHIPBOARD TACTICAL COMMUNICATIONS.....	43,212	43,212
75 SHIP COMMUNICATIONS AUTOMATION.....	90,724	90,073
76 COMMUNICATIONS ITEMS UNDER \$5M.....	44,447	44,447
SUBMARINE COMMUNICATIONS		
77 SUBMARINE BROADCAST SUPPORT.....	47,579	47,579
78 SUBMARINE COMMUNICATION EQUIPMENT.....	64,642	64,642
SATELLITE COMMUNICATIONS		
79 SATELLITE COMMUNICATIONS SYSTEMS.....	38,636	38,636
80 NAVY MULTIBAND TERMINAL (NMT).....	34,723	34,723

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
81 SHORE COMMUNICATIONS JCS COMMUNICATIONS EQUIPMENT.....	2,651	2,651
82 CRYPTOGRAPHIC EQUIPMENT INFO SYSTEMS SECURITY PROGRAM (ISSP).....	146,879	145,311
83 MIO INTEL EXPLOITATION TEAM.....	977	977
84 CRYPTOLOGIC EQUIPMENT CRYPTOLOGIC COMMUNICATIONS EQUIP.....	17,809	17,809
92 OTHER ELECTRONIC SUPPORT COAST GUARD EQUIPMENT.....	63,214	81,464
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	3,405,701	3,330,668
94 AVIATION SUPPORT EQUIPMENT SONOBUOYS SONOBUOYS - ALL TYPES.....	249,121	296,871
95 AIRCRAFT SUPPORT EQUIPMENT MINOTAUR.....	4,963	4,963
96 WEAPONS RANGE SUPPORT EQUIPMENT.....	98,898	87,748
97 AIRCRAFT SUPPORT EQUIPMENT.....	178,647	175,439
98 ADVANCED ARRESTING GEAR (AAG).....	22,265	22,265
99 METEOROLOGICAL EQUIPMENT.....	13,687	13,687
100 LEGACY AIRBORNE MINE COUNTERMEASURES.....	4,446	4,446
101 COMMON CONTROL SYSTEM.....	1,470	1,470
102 AVIATION SUPPORT EQUIPMENT.....	70,665	62,496
103 UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL.....	86,584	67,226
TOTAL, AVIATION SUPPORT EQUIPMENT.....	730,746	736,611
104 ORDNANCE SUPPORT EQUIPMENT SHIP GUN SYSTEM EQUIPMENT SHIP GUN SYSTEMS EQUIPMENT.....	5,536	5,536
105 SHIP MISSILE SYSTEMS EQUIPMENT HARPOON SUPPORT EQUIPMENT.....	204	204
106 SHIP MISSILE SUPPORT EQUIPMENT.....	237,987	221,476
107 TOMAHAWK SUPPORT EQUIPMENT.....	88,726	87,147
108 FBM SUPPORT EQUIPMENT STRATEGIC MISSILE SYSTEMS EQUIP.....	281,259	276,430
109 ASW SUPPORT EQUIPMENT SSN COMBAT CONTROL SYSTEMS.....	143,289	128,117

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
110 ASW SUPPORT EQUIPMENT.....	30,595	26,852
OTHER ORDNANCE SUPPORT EQUIPMENT		
111 EXPLOSIVE ORDNANCE DISPOSAL EQUIP.....	1,721	1,721
112 ITEMS LESS THAN \$5 MILLION.....	8,746	8,746
OTHER EXPENDABLE ORDNANCE		
113 ANTI-SHIP MISSILE DECOY SYSTEM.....	76,994	76,994
114 SUBMARINE TRAINING DEVICE MODS.....	75,813	75,813
115 SURFACE TRAINING EQUIPMENT.....	127,814	135,814
TOTAL, ORDNANCE SUPPORT EQUIPMENT.....	1,078,684	1,044,850
CIVIL ENGINEERING SUPPORT EQUIPMENT		
116 PASSENGER CARRYING VEHICLES.....	4,140	4,140
117 GENERAL PURPOSE TRUCKS.....	2,805	2,805
118 CONSTRUCTION & MAINTENANCE EQUIP.....	48,403	50,857
119 FIRE FIGHTING EQUIPMENT.....	15,084	15,084
120 TACTICAL VEHICLES.....	27,400	27,400
121 POLLUTION CONTROL EQUIPMENT.....	2,607	5,369
122 ITEMS UNDER \$5 MILLION.....	51,963	50,619
123 PHYSICAL SECURITY VEHICLES.....	1,165	1,165
TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT.....	153,567	157,439
SUPPLY SUPPORT EQUIPMENT		
124 SUPPLY EQUIPMENT.....	24,698	24,698
125 FIRST DESTINATION TRANSPORTATION.....	5,385	5,385
126 SPECIAL PURPOSE SUPPLY SYSTEMS.....	660,750	660,750
TOTAL, SUPPLY SUPPORT EQUIPMENT.....	690,833	690,833
PERSONNEL AND COMMAND SUPPORT EQUIPMENT		
TRAINING DEVICES		
127 TRAINING SUPPORT EQUIPMENT.....	3,465	3,202
128 TRAINING AND EDUCATION EQUIPMENT.....	60,114	58,823
COMMAND SUPPORT EQUIPMENT		
129 COMMAND SUPPORT EQUIPMENT.....	31,007	31,007
130 MEDICAL SUPPORT EQUIPMENT.....	7,346	14,346
132 NAVAL MIP SUPPORT EQUIPMENT.....	2,887	2,887
133 OPERATING FORCES SUPPORT EQUIPMENT.....	12,815	12,815

(93E)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
134 C4ISR EQUIPMENT.....	6,324	6,324
135 ENVIRONMENTAL SUPPORT EQUIPMENT.....	25,098	25,098
136 PHYSICAL SECURITY EQUIPMENT.....	110,647	107,471
137 ENTERPRISE INFORMATION TECHNOLOGY.....	31,709	31,709
141 NEXT GENERATION ENTERPRISE SERVICE.....	41	175,041
142 CYBERSPACE ACTIVITIES.....	12,859	12,859
TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT..	304,312	481,582
143 SPARES AND REPAIR PARTS.....	424,405	420,700
CLASSIFIED PROGRAMS.....	19,808	19,808
TOTAL, OTHER PROCUREMENT, NAVY.....	10,875,912	11,072,651

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 SURFACE COMBATANT HM&E	83,746	78,054
DDG-51 ship control systems unjustified growth		-3,664
HM&E condition system unjustified growth		-9,028
Program increase - DDG-51 lightweight advanced degaussing mine protection system		7,000
4 SUB PERISCOPE, IMAGING AND SUPT EQUIP PROG	234,932	209,792
AN/BLQ-10B technical insertion kits for TI22 688/21 class unjustified request		-25,140
5 DDG MOD	583,136	535,667
DDG mod installation unjustified growth		-15,008
GEDMS equipment flight IIA installation excess growth		-4,821
MCS/DCS equipment flight II/IIA installation excess growth		-4,387
IBNS equipment installation excess growth		-1,104
AWS upgrade installation excess growth		-15,272
Multi-mission SIGPRO equipment installation excess growth		-2,374
IVCS equipment installation excess growth		-4,503
6 FIREFIGHTING EQUIPMENT	15,040	13,970
EEBD replacement and PES previously funded		-1,070
8 LHA/LHD MIDLIFE	133,627	119,428
Hydra installation excess to need		-881
Amplified announcing system contract award delay		-1,978
IVN upgrade contract award delay		-7,201
Ballast and DC console excess to need		-2,928
ICT upgrade early to need		-1,211
9 LCC 19/20 EXTENDED SERVICE LIFE PROGRAM	4,387	1,401
Excess to need		-2,986
15 LPD CLASS SUPPORT EQUIPMENT	34,292	22,093
HM&E survivability modifications installation delay		-731
SWAN-CANES installation delay		-2,989
HM&E mechanical/auxiliary mods knuckleboom crane improvements installation delay		-1,093
HM&E mechanical/auxiliary mod common fuel rail unjustified request		-7,386
16 DDG 1000 CLASS SUPPORT EQUIPMENT	126,107	71,561
Diminishing manufacturing sources and material shortages unjustified growth		-3,846
TSCE modernization software integration early to need		-10,500
Data center lab insufficient budget justification		-16,700
CPS early to need		-23,500

7/2/01

P-1	Budget Request	Final Bill
18 DSSP EQUIPMENT	10,682	3,282
SRDRS shallow water transfer skirt concurrency		-7,400
19 CG MODERNIZATION	156,951	138,926
Prior year carryover for CG66 and CG68		-18,025
22 ITEMS LESS THAN \$5 MILLION	84,789	83,545
CVN78 excess growth		-5,244
Program increase - modernized personnel transfer systems		3,000
Program increase - centrifuge testing for surface combatants		1,000
23 CHEMICAL WARFARE DETECTORS	2,997	2,429
Chemical warfare embed upgrade kits excess installation costs		-568
29 STANDARD BOATS	58,770	57,718
40PB unit cost growth		-1,052
30 OPERATING FORCES IPE	168,822	460,822
CNC shaft lathe contract award delay		-18,000
Program increase - interim SSN maintenance support complexes		10,000
Program increase - Naval Shipyard Capital Investment program		300,000
31 LCS COMMON MISSION MODULES EQUIPMENT	74,231	63,501
Mission bay training modules early to need		-10,730
32 LCS MCM MISSION MODULES	40,630	30,119
AN/SLW-2 unmanned surface vehicle early to need		-10,511
35 LCS IN-SERVICE MODERNIZATION	122,591	153,726
LCS maintenance modernization insufficient budget justification		-4,265
Program increase - USS FORT WORTH, USS DETROIT, USS LITTLE ROCK		25,400
Program increase - condition-based maintenance for combat and communications systems		10,000
36 SMALL & MEDIUM UUV	32,534	44,534
Program increase		12,000
38 SPQ-9B RADAR	15,927	14,209
AN/SPQ-9B radar equipment previously funded		-1,718
39 AN/SQQ-89 SURF ASW COMBAT SYSTEM	131,829	126,871
Technology insertion/refresh kits contract award delay		-4,958
40 SSN ACOUSTIC EQUIPMENT	379,850	379,498
Virginia class technical insertion kits previously funded		-18,952
Program increase - TB-29C towed arrays		18,600
46 AN/SLQ-32	370,559	360,817
Block 3 spares and ECPs unjustified growth		-9,742

(93H)

P-1	Budget Request	Final Bill
58 ASHORE ATC EQUIPMENT	83,464	82,510
AMTAC support unjustified request		-954
59 AFLOAT ATC EQUIPMENT	67,055	65,302
AN/SPN-50 unit cost growth		-1,753
62 NAVAL MISSION PLANNING SYSTEMS	17,951	16,777
Mission planning seat previously funded		-1,174
63 MARITIME INTEGRATED BROADCAST SYSTEM	2,360	1,760
Contract award delay		-600
67 RADIAC	9,074	7,828
APD ship contract award delay		-1,246
73 ITEMS LESS THAN \$5 MILLION	156,042	87,475
Historical underexecution		-11,939
Dual band radar unjustified growth		-16,318
Next generation surface search radar contract award delay		-40,310
75 SHIP COMMUNICATIONS AUTOMATION	90,724	90,073
Tactical messaging installation cost growth		-651
82 INFO SYSTEMS SECURITY PROGRAM (ISSP)	146,879	145,311
NCSA early to need		-1,568
92 COAST GUARD EQUIPMENT	63,214	81,464
ARC-210 contract award delay		-1,510
OE-57D contract award delay		-240
Program increase - Sea Giraffe (AN/SPS 77) tech data transfer and test asset		20,000
94 SONOBUOYS - ALL TYPES	249,121	296,871
AN/SSQ-125 (multi-static coherent source) previously funded		-6,650
Program increase - additional sonobuoys, all types		54,400
96 WEAPONS RANGE SUPPORT EQUIPMENT	98,898	87,748
Systems replacement and modernization previously funded		-918
Ocean systems previously funded		-7,516
Electronic warfare training equipment previously funded		-2,716
97 AIRCRAFT SUPPORT EQUIPMENT	178,647	175,439
AN/SRQ-4 installations cost growth		-3,208
102 AVIATION SUPPORT EQUIPMENT	70,665	62,496
ASIP-SY126 previously funded		-2,706
LEP-SY80 contract award delay		-2,876
Aviation maintenance advancement solutions contract award delay		-2,587

93I

P-1	Budget Request	Final Bill
103 UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CNTRL	86,584	67,226
Ship change document previously funded		-3,163
Product support and assembly unjustified growth		-5,395
MQ-25 infrastructure early to need (CVN 72)		-5,900
Ground control station insufficient budget justification		-4,900
106 SHIP MISSILE SUPPORT EQUIPMENT	237,987	221,476
I-Stalker install previously funded		-1,219
SSDS production support unjustified growth		-4,920
Depot special tooling/test equipment previously funded		-656
MK57 UCEU hardware procurement contract award delay		-4,200
SSDS COTS conversion kits installation excess to need		-1,516
OTH WS installation excess to need		-4,000
107 TOMAHAWK SUPPORT EQUIPMENT	88,726	87,147
TMPC ILS previously funded		-1,579
108 STRATEGIC MISSILE SYSTEMS EQUIPMENT	281,259	276,430
Flight test instrumentation refresh previously funded		-4,829
109 SSN COMBAT CONTROL SYSTEMS	143,289	128,117
Combat system tech refresh/legacy integration unjustified growth		-8,993
VB034 upgrades from TI04 and out baseline SSN774 class installation cost growth		-2,321
VB034 upgrades from TI04 and out baseline SSN774 w/CWL installation excess to need		-3,858
110 ASW SUPPORT EQUIPMENT	30,595	26,852
Fast attack craft target previously funded		-738
High speed maneuverable surface target contract award delay		-3,005
115 SURFACE TRAINING EQUIPMENT	127,814	135,814
BFTT ship sets poor justification material		-2,000
Program increase - littoral combat ship mission bay trainer		10,000
118 CONSTRUCTION & MAINTENANCE EQUIPMENT	48,403	50,857
Acquisition support previously funded		-2,146
Program increase - GPS laser leveling systems for Seabees		4,600
121 POLLUTION CONTROL EQUIPMENT	2,607	5,369
Program increase - Red Hill		2,762
122 ITEMS LESS THAN \$5 MILLION	51,963	50,619
Expeditionary facilities unit cost growth		-644
Diesel generators unit cost growth		-700
127 TRAINING SUPPORT EQUIPMENT	3,465	3,202
BST-21 training management system previously funded		-263
128 TRAINING AND EDUCATION EQUIPMENT	60,114	58,823
West coast network consolidation unjustified request		-1,291

25

P-1	Budget Request	Final Bill
130 MEDICAL SUPPORT EQUIPMENT	7,346	14,346
Program increase - expeditionary medical facilities		7,000
136 PHYSICAL SECURITY EQUIPMENT	110,647	107,471
Naval non-lethal effects failure to comply with congressional direction		-1,588
C4I previously funded		-1,588
141 NEXT GENERATION ENTERPRISE SERVICE	41	175,041
Transfer from RDTE,N line 255		175,000
143 SPARES AND REPAIR PARTS	424,405	420,700
UMCS - UCA mission control stations spares early to need		-3,705

925

PROCUREMENT, MARINE CORPS

The agreement provides \$3,093,770,000 for Procurement, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (91A-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.....	36,836	36,836
2 AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES.....	532,355	520,697
3 LAV PIP.....	23,476	22,116
ARTILLERY AND OTHER WEAPONS		
4 155MM LIGHTWEIGHT TOWED HOWITZER.....	32	32
5 ARTILLERY WEAPONS SYSTEM.....	67,548	221,347
6 WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION.....	35,402	30,901
OTHER SUPPORT		
TOTAL, WEAPONS AND COMBAT VEHICLES.....	695,649	831,929
GUIDED MISSILES AND EQUIPMENT		
GUIDED MISSILES		
8 GROUND BASED AIR DEFENSE.....	9,349	9,349
9 ANTI-ARMOR MISSILE - JAVELIN.....	937	937
10 FAMILY OF ANTI-ARMOR WEAPON SYSTEMS.....	20,481	20,481
11 ANTI-ARMOR MISSILE - TOW.....	14,359	9,793
12 GUIDED MLRS ROCKET (GMLRS).....	98,299	76,368
TOTAL, GUIDED MISSILES AND EQUIPMENT.....	143,425	116,928
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		
COMMAND AND CONTROL SYSTEMS		
13 COMMON AVIATION COMMAND AND CONTROL SYSTEM.....	18,247	18,247
REPAIR AND TEST EQUIPMENT		
14 REPAIR AND TEST EQUIPMENT.....	33,554	33,554
15 MODIFICATION KITS.....	167	167
OTHER SUPPORT (TEL)		
COMMAND AND CONTROL		
16 ITEMS UNDER \$5 MILLION (COMM & ELEC).....	64,879	103,158
17 AIR OPERATIONS C2 SYSTEMS.....	1,291	1,291
RADAR + EQUIPMENT (NON-TEL)		
19 GROUND/AIR TASK ORIENTED RADAR.....	297,369	339,369
INTELL/COMM EQUIPMENT (NON-TEL)		
20 GCSS-MC.....	604	---
21 FIRE SUPPORT SYSTEM.....	39,810	33,808
22 INTELLIGENCE SUPPORT EQUIPMENT.....	67,309	61,860

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
24 UNMANNED AIR SYSTEMS (INTEL).....	24,299	24,299
25 DCGS-MC.....	28,633	28,633
26 UAS PAYLOADS.....	3,730	3,074
OTHER SUPPORT (NON-TEL)		
29 NEXT GENERATION ENTERPRISE NETWORK.....	97,060	90,974
30 COMMON COMPUTER RESOURCES.....	83,606	77,315
31 COMMAND POST SYSTEMS.....	53,708	48,633
32 RADIO SYSTEMS.....	468,678	401,346
33 COMM SWITCHING & CONTROL SYSTEMS.....	49,600	42,294
34 COMM & ELEC INFRASTRUCTURE SUPPORT.....	110,835	95,943
35 CYBERSPACE ACTIVITIES.....	25,377	25,377
CLASSIFIED PROGRAMS.....	4,034	4,034
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	1,472,790	1,433,376
SUPPORT VEHICLES		
ADMINISTRATIVE VEHICLES		
38 COMMERCIAL CARGO VEHICLES.....	17,848	17,848
TACTICAL VEHICLES		
39 MOTOR TRANSPORT MODIFICATIONS.....	23,363	17,647
40 JOINT LIGHT TACTICAL VEHICLE.....	322,013	322,013
42 TRAILERS.....	9,876	9,876
TOTAL, SUPPORT VEHICLES.....	373,100	367,384
ENGINEER AND OTHER EQUIPMENT		
ENGINEER AND OTHER EQUIPMENT		
44 TACTICAL FUEL SYSTEMS.....	2,161	2,161
45 POWER EQUIPMENT ASSORTED.....	26,625	16,040
46 AMPHIBIOUS SUPPORT EQUIPMENT.....	17,119	12,319
47 EOD SYSTEMS.....	94,472	94,472
MATERIALS HANDLING EQUIPMENT		
48 PHYSICAL SECURITY EQUIPMENT.....	84,513	87,120
GENERAL PROPERTY		
49 FIELD MEDICAL EQUIPMENT.....	8,105	8,105
50 TRAINING DEVICES.....	37,814	31,638
51 FAMILY OF CONSTRUCTION EQUIPMENT.....	34,658	39,638
52 ULTRA-LIGHT TACTICAL VEHICLE.....	15,439	15,439

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

53 OTHER SUPPORT ITEMS LESS THAN \$5 MILLION.....	4,402	4,402

TOTAL, ENGINEER AND OTHER EQUIPMENT.....	325,308	311,334

54 SPARES AND REPAIR PARTS.....	32,819	32,819

TOTAL, PROCUREMENT, MARINE CORPS.....	3,043,091	3,093,770
=====		

(94C)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES	532,355	520,697
Engineering change orders excess growth/reduce carryover		-3,000
NRE and industrial tooling unjustified growth		-8,658
3 LAV PIP	23,476	22,116
Reduce carryover		-1,360
5 ARTILLERY WEAPONS SYSTEM	67,548	221,347
Program increase - tactical tomahawk		96,000
Program increase - naval strike missile		57,799
6 WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION	35,402	30,901
Principal end item re-procurement unjustified request		-1,690
RHGPk production units failure to comply with congressional direction		-1,086
RHGPk accessories excess growth		-1,725
11 ANTI-ARMOR MISSILE-TOW	14,359	9,793
Guided missiles restoring acquisition accountability		-4,566
12 GUIDED MLRS ROCKET (GMLRS)	98,299	76,368
Tactical GMLRS hardware restoring acquisition accountability		-21,931
16 ITEMS UNDER \$5 MILLION (COMM & ELEC)	64,879	103,158
Combat camera systems previously funded		-474
SIGMAN equipment unjustified growth		-1,247
Program increase - squad binocular night vision goggle		40,000
19 GROUND/AIR TASK ORIENTED RADAR (G/ATOR)	297,369	339,369
Depot tooling facilitization early to need		-2,000
Program increase - AN/TPS-80 G/ATOR long range radar		44,000
20 GCSS-MC	604	0
Reduce carryover		-604
21 FIRE SUPPORT SYSTEM	39,810	33,808
Mobile shelter modernization previously funded		-6,002
22 INTELLIGENCE SUPPORT EQUIPMENT	67,309	61,860
Reduce carryover		-11,000
Program increase - sensitive compartmented information network		5,551
26 UAS PAYLOADS	3,730	3,074
Excess to need		-656
29 NEXT GENERATION ENTERPRISE NETWORK (NGEN)	97,060	90,974
Excess growth		-6,086

94D

P-1	Budget Request	Final Bill
30 COMMON COMPUTER RESOURCES	83,606	77,315
Wargaming hardware early to need		-2,000
Training and education headquarters support unjustified request		-2,291
Recruit training early to need		-2,000
31 COMMAND POST SYSTEMS	53,708	48,633
NOTM ULTV systems early to need		-5,075
32 RADIO SYSTEMS	468,678	401,346
Excess to need		-67,332
33 COMM SWITCHING & CONTROL SYSTEMS	49,600	42,294
Excess growth		-7,306
34 COMM & ELEC INFRASTRUCTURE SUPPORT	110,835	95,943
Unified capabilities and dense wave division multiplexing excess growth		-10,000
BTI defense policy review initiative Guam early to need		-4,892
39 MOTOR TRANSPORT MODIFICATIONS	23,363	17,647
Heavy trailer ECP excess growth		-4,277
Light tactical vehicle modifications ECPs unjustified growth		-1,439
45 POWER EQUIPMENT ASSORTED	26,625	16,040
IPMS intelligent power distribution excess to need		-10,585
46 AMPHIBIOUS SUPPORT EQUIPMENT	17,119	12,319
Tactical unmanned resupply aircraft system and support unjustified request		-4,800
48 PHYSICAL SECURITY EQUIPMENT	84,513	87,120
Collateral equipment early to need		-18,693
Program increase - multi-domain counter-intrusion systems		21,300
50 TRAINING DEVICES	37,814	31,638
CACCTUS lab equipment previously funded		-3,573
RTAM multiple instrum previously funded		-2,603
51 FAMILY OF CONSTRUCTION EQUIPMENT	34,658	39,638
Program increase - rough terrain container handler		4,980

(94E)

AIRCRAFT PROCUREMENT, AIR FORCE

The agreement provides \$18,383,946,000 for Aircraft Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (95A-G)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, AIR FORCE		
1	COMBAT AIRCRAFT	
	B-21 RAIDER (AP-CY)	108,027 108,027
2	TACTICAL FORCES	
	F-35	4,167,604 4,217,604
3	F-35 (AP-CY)	352,632 342,536
5	F-15EX	1,186,903 1,104,440
6	F-15EX (AP-CY)	147,919 147,919
	TOTAL, COMBAT AIRCRAFT	5,963,085 5,920,526
7	AIRLIFT AIRCRAFT/TACTICAL AIRLIFT	
	KC-46A TANKER	2,380,315 2,289,015
8	OTHER AIRLIFT	
	C-130J	128,896 2,385,206
9	MC-130J	220,049 220,049
	TOTAL, AIRLIFT AIRCRAFT	2,729,260 4,894,270
11	TRAINER AIRCRAFT	
	ADVANCED TRAINER REPLACEMENT T-X	10,397 ---
	TOTAL, TRAINER AIRCRAFT	10,397 ---
12	OTHER AIRCRAFT	
	HELICOPTERS	
	UH-1N REPLACEMENT	--- 141,360
13	COMBAT RESCUE HELICOPTER	792,221 743,921
16	MISSION SUPPORT AIRCRAFT	
	CIVIL AIR PATROL A/C	2,813 11,400
17	OTHER AIRCRAFT	
	TARGET DRONES	116,169 112,443
19	E-11 BACN/HAG	124,435 124,435
21	HQ-9	3,288 92,267
	TOTAL, OTHER AIRCRAFT	1,038,926 1,225,826
MODIFICATION OF INSERVICE AIRCRAFT		
STRATEGIC AIRCRAFT		
23	B-2A	29,944 29,944
24	B-1B	30,518 27,406
25	B-52	74,957 70,420
26	COMBAT RESCUE HELICOPTER	61,191 ---

(95A)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
27 LARGE AIRCRAFT INFRARED COUNTERMEASURES.....	57,001	57,001
TACTICAL AIRCRAFT		
28 A-10.....	83,621	83,621
29 E-11 BACN/HAG.....	68,955	68,955
30 F-15.....	234,340	178,953
31 F-16.....	613,166	612,408
32 F-22A.....	424,722	407,927
33 F-35 MODIFICATIONS.....	304,135	247,928
34 F-15 EPAW.....	149,797	149,797
36 KC-46A MODS.....	1,984	1,984
AIRLIFT AIRCRAFT		
37 C-5.....	25,431	20,330
38 C-17A.....	59,570	54,649
40 C-32A.....	1,949	1,949
41 C-37A.....	5,984	5,984
TRAINER AIRCRAFT		
42 GLIDER MODS.....	142	142
43 T-6.....	8,735	8,735
44 T-1.....	3,872	872
45 T-38.....	49,851	45,039
OTHER AIRCRAFT		
46 U-2 MODS.....	126,809	121,009
47 KC-10A (ATCA).....	1,902	1,902
49 VC-25A MOD.....	96	96
50 C-40.....	262	10,262
51 C-130.....	29,071	272,251
52 C-130J MODS.....	110,784	110,784
53 C-135.....	61,376	58,776
54 COMPASS CALL MODS.....	195,098	195,098
56 RC-135.....	207,596	207,596
57 E-3.....	109,855	91,964
58 E-4.....	19,081	19,081
59 E-8.....	16,312	16,312
60 AIRBORNE WARNING AND CONTROL SYSTEM.....	30,327	24,827

45

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	FINAL BILL
62	H-1	1,533	1,533
63	H-60	13,709	14,479
64	RQ-4 UAV MODS	3,205	3,205
65	HC/MC-130 MODIFICATIONS	150,263	148,063
66	OTHER AIRCRAFT	54,828	54,828
67	MQ-9 MODS	144,287	144,287
68	MQ-9 UAS PAYLOADS	40,800	55,200
69	SENIOR LEADER C3, SYSTEM - AIRCRAFT	23,554	23,554
70	CV-22 MODS	158,162	230,962
	TOTAL, MODIFICATION OF INSERVICE AIRCRAFT	3,788,775	3,880,113
	AIRCRAFT SPARES AND REPAIR PARTS		
71	INITIAL SPARES/REPAIR PARTS	923,573	1,007,068
	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		
	COMMON SUPPORT EQUIPMENT		
72	AIRCRAFT REPLACEMENT SUPPORT EQUIP.	138,761	138,761
	POST PRODUCTION SUPPORT		
73	B-2A	1,651	1,651
74	B-2B	38,811	38,811
75	B-52	5,602	3,602
78	F-15	2,324	2,324
79	F-16 POST PRODUCTION SUPPORT	10,456	10,456
81	RQ-4 POST PRODUCTION CHARGES	24,592	24,592
	INDUSTRIAL RESPONSIVENESS		
82	INDUSTRIAL RESPONSIVENESS	18,110	18,110
	WAR CONSUMABLES		
83	WAR CONSUMABLES	35,866	35,866

(95C)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OTHER PRODUCTION CHARGES		
84 OTHER PRODUCTION CHARGES.....	979,388	1,163,878
TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	1,255,561	1,438,051
CLASSIFIED PROGRAMS.....	18,092	18,092
TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE.....	15,727,669	18,383,946

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 F-35	4,167,604	4,217,604
Program increase - depot acceleration		50,000
3 F-35 (AP)	352,632	342,536
Airframe/CFE long lead material unjustified growth		-8,380
Engines/Eng ACC unjustified growth		-1,716
5 F-15EX	1,186,903	1,104,440
Unit cost adjustment		-51,347
Spares unjustified growth		-9,016
Depot activation ahead of need		-22,100
7 KC-46A MDAP	2,380,315	2,289,015
PMA excess growth		-2,400
G-SIL delays		-88,900
8 C-130J	128,896	2,385,206
Program increase - four aircraft only for the Air Force Reserve		429,200
Program increase - sixteen aircraft only for Air National Guard operational squadrons		1,800,800
Program increase - critical production DMS requirements		26,310
11 ADVANCED REPLACEMENT TRAINER T-X	10,397	0
Ahead of need		-10,397
12 UH-1N REPLACEMENT	0	141,360
Reappropriation of FY21 funds for eight aircraft		141,360
13 COMBAT RESCUE HELICOPTER	792,221	743,921
Airframe unit cost adjustment		-35,303
Other flyaway cost adjustment		-12,997
16 CIVIL AIR PATROL	2,813	11,400
Program increase		8,587
17 TARGET DRONES	116,169	112,443
Excess to requirement		-3,726
21 MQ-9	3,288	92,267
Program increase - four aircraft		88,979
24 B-1B	30,518	27,406
Radio crypto mod ahead of need		-3,112
25 B-52	74,957	70,420
Air Force requested transfer from line 71 for GPS-IU		7,863
TDL production decision delays		-10,000
Low cost improvements ahead of need		-2,400
26 COMBAT RESCUE HELICOPTER	61,191	0
DAIRCM ahead of need		-61,191

(95E)

P-1		Budget Request	Final Bill
30	F-15	234,340	178,953
	F-15E MIDS-JTRS installs excess to need		-1,883
	ADCP II contract delays		-28,329
	ADCP depot gap analysis ahead of need		-10,029
	F-15E digital color display ahead of need		-15,146
31	F-16	613,166	612,408
	Program increase - AESA radars only for Air National Guard		62,700
	Program increase - AESA spares kits only for Air National Guard		25,620
	Program increase - AESA wideband radomes and spares only for Air National Guard		7,540
	AESA (active) cost adjustment for increased quantity		-26,975
	Program increase - HUD upgrade		20,000
	MMC/PDG development delays		-15,386
	Unjustified growth - MMC/PDG interim contractor support		-4,795
	Comm suite installations ahead of need		-10,368
	ALR-69A DRWR decision point alignment		-49,964
	Center display unit excess to need		-610
	SLEP induction delays		-8,520
32	F-22A	424,722	407,927
	Sensor enhancement contract delay		-7,400
	Program increase - RAMP		10,000
	OGC carryover		-13,326
	Link 16 block 35 - ACAT carryover		-6,069
33	F-35 MODIFICATIONS	304,135	247,928
	Block 4 group A installs ahead of need		-44,000
	SLLP2 delays		-12,207
37	C-5	25,431	20,330
	CNS/ATM excess to need		-5,101
38	C-17A	59,570	54,649
	PMA carryover		-2,200
	RHUD installations excess to need		-2,721
44	T-1	3,872	872
	AMP A-kit excess to need		-3,000
45	T-38	49,851	45,039
	MFD/EED ahead of need		-1,554
	Overestimation of PCIII installation costs		-3,258
46	U-2	126,809	121,009
	ASARS-2B contract delay		-5,800
50	C-40	262	10,262
	Program increase - SATCOM upgrades		10,000

(95F)

P-1	Budget Request	Final Bill
51 C-130	29,071	272,251
Program increase - eight blade propeller upgrade		151,000
Program increase - engine enhancement program		79,000
Program increase - modular airborne firefighting system		20,000
AMP Inc 2 installations ahead of need		-6,820
53 C-135	61,376	58,776
RPI delays		-2,600
57 E-3	109,855	91,964
ACIP ahead of need		-17,891
60 AWACS 40/45	30,327	24,827
Overestimation of block 40/45 kit installation costs		-5,500
63 H-60	13,709	14,479
OLR ICS contract delay		-1,000
DSU ICS excess to need		-3,600
Program increase - combat rescue helicopter load stabilizers		5,370
65 HC/MC-130 MODS	150,263	148,063
SACU installations ahead of need		-2,200
68 MQ-9 UAS PAYLOADS	40,800	55,200
Program increase - Gorgon Stare operational loss replacement		14,400
70 CV-22 MODS	158,162	230,962
Program increase - SOCOM unfunded priority for CV-22 reliability acceleration		82,400
Overestimation of OGA costs		-4,700
Level II air vehicle carryover		-4,900
71 INITIAL SPARES/REPAIR PARTS	923,573	1,007,068
Air Force requested transfer to line 25 for B-52 GPS-IU		-7,863
Program increase - unfunded priority for F135 spare engine power modules only for Air Force		175,000
F-15E carryover		-8,250
F-22 carryover		-8,543
KC-46A award delays		-55,000
HH-60 DVE termination		-1,849
C-17 contract delay		-10,000
75 B-52	5,602	3,602
CONNECT ICS carryover		-2,000
84 OTHER PRODUCTION CHARGES	979,388	1,163,878
Program increase - P6 combat training system		14,490
Classified adjustment		170,000

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C-130 DIMINISHING MANUFACTURING SOURCES

The agreement recognizes the importance of maintaining a viable C-130 production line which requires significant investments in diminishing manufacturing sources (DMS) through fiscal year 2026. The agreement includes DMS resources within current and prior year Aircraft Procurement, Air Force appropriations to satisfy the Air Force's list of unfunded C-130J DMS requirements. For fiscal year 2022, this includes \$68,000,000 within the congressional increase for Air National Guard aircraft, \$26,310,000 through a congressional increase specifically for DMS, and \$113,300,000 included in the President's budget request. Additionally, fiscal year 2021 resources available to fund DMS requirements include \$26,700,000 from previous congressional increases for aircraft, \$29,600,000 previously allocated for DMS from MC-130 funding, and \$68,300,000 remaining within the MC-130 program following the rescission of excess funds.

The Secretary of the Air Force is directed to submit an updated list of C-130J DMS requirements with the total estimated costs by effort for each fiscal year to the House and Senate Appropriations Committees with the fiscal year 2023 President's budget request. This list shall also include current resources applied to DMS efforts, as well as any additional resources allocated to those efforts within the fiscal year 2023 future years defense program, including the current year and prior year.

MISSILE PROCUREMENT, AIR FORCE

The agreement provides \$2,475,206,000 for Missile Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (97A-C)

~~-(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
MISSILE PROCUREMENT, AIR FORCE		
BALLISTIC MISSILES		
1 MISSILE REPLACEMENT EQUIPMENT - BALLISTIC		
MISSILE REPLACEMENT EQ-BALLISTIC	57,793	57,793
BALLISTIC MISSILES		
2 GROUND BASED STRATEGIC DETERRENT	10,895	---
GROUND BASED STRATEGIC DETERRENT ADVANCE		
2A PROCUREMENT (AP-CY)	---	8,895
OTHER MISSILES		
TACTICAL		
3 REPLAC EQUIP & WAR CONSUMABLES	7,681	7,681
4 AGM-183A AIR-LAUNCHED RAPID RESPONSE WEAPON	160,850	---
6 JOINT AIR-SURFACE STANDOFF MISSILE (JASSM)	710,550	710,550
8 SIDEWINDER (AIM-9X)	107,587	102,507
9 AMRAAM	214,002	214,002
10 PREDATOR HELLFIRE MISSILE	103,684	103,684
11 SMALL DIAMETER BOMB	82,819	72,859
12 SMALL DIAMETER BOMB II	294,649	275,934
INDUSTRIAL FACILITIES		
13 INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION	757	757
TOTAL, OTHER MISSILES		
	1,682,579	1,487,974
MODIFICATION OF INSERVICE MISSILES		
CLASS IV		
15 ICBM FUZE MOD	53,013	65,263
16 ICBM FUZE MOD	47,757	35,507
17 MM III MODIFICATIONS	88,579	88,579
19 AIR LAUNCH CRUISE MISSILE	46,799	46,799
TOTAL, MODIFICATION OF INSERVICE MISSILES		
	236,148	236,148
SPARES AND REPAIR PARTS		
20 INITIAL SPARES/REPAIR PARTS	14,212	16,212
21 REPLEN SPARES/REPAIR PARTS	63,547	63,547
22 INITIAL SPARES/REPAIR PARTS	4,045	4,045
TOTAL, SPARES AND REPAIR PARTS		
	81,804	83,804

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

SPECIAL PROGRAMS		
27 SPECIAL UPDATE PROGRAMS.....	30,352	30,352
CLASSIFIED PROGRAMS.....	570,240	570,240
	-----	-----
TOTAL, SPECIAL PROGRAMS.....	600,592	600,592
	=====	=====
TOTAL, MISSILE PROCUREMENT, AIR FORCE.....	2,669,811	2,475,206
	=====	=====

(97B)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 GROUND BASED STRATEGIC DETERRENT	10,895	0
Air Force requested transfer to line 20 for KS-75		-2,000
Air Force requested transfer to line 2A		-8,895
GROUND BASED STRATEGIC DETERRENT ADVANCE		
2A PROCUREMENT (AP-CY)	0	8,895
Air Force requested transfer from line 2		8,895
4 AGM-183A AIR-LAUNCHED RAPID RESPONSE WEAPON	160,850	0
Early to need		-80,425
Transfer to RDTE,AF line 43A for testing shortfall		-80,425
8 SIDEWINDER (AIM-9X)	107,587	102,507
Unit cost adjustment - AUR Block II		-3,720
Unit cost adjustment - CATM Block II		-1,360
11 SMALL DIAMETER BOMB	82,819	72,859
Contract delays		-9,960
12 SMALL DIAMETER BOMB II	294,649	275,934
Pricing adjustment		-18,715
15 ICBM FUZE MOD	53,013	65,263
Air Force requested transfer from line 16		12,250
16 ICBM FUZE MOD (AP)	47,757	35,507
Air Force requested transfer to line 15		-12,250
20 MISSILE SPARES / REPAIR PARTS (INITIAL)	14,212	16,212
Air Force requested transfer from line 2 for KS-75		2,000

(97C)

PROCUREMENT OF AMMUNITION, AIR FORCE

The agreement provides \$665,977,000 for Procurement of Ammunition, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (98A-B)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMUNITION, AIR FORCE		
1	PROCUREMENT OF AMMO, AIR FORCE	
	ROCKETS.....	36,597 36,572
2	CARTRIDGES.....	169,163 161,917
	BOMBS	
3	PRACTICE BOMBS.....	48,745 48,745
4	GENERAL PURPOSE BOMBS.....	176,565 160,976
5	MASSIVE ORDNANCE PENETRATOR (MOP).....	15,500 15,500
6	JOINT DIRECT ATTACK MUNITION.....	124,102 48,584
7	B61.....	2,709 2,709
8	CAD/PAD.....	47,210 59,010
9	EXPLOSIVE ORDNANCE DISPOSAL (EOD).....	6,151 5,151
10	SPARES AND REPAIR PARTS.....	535 535
11	MODIFICATIONS.....	292 292
12	ITEMS LESS THAN \$5,000,000.....	9,164 9,164
	FLARES/FUZES	
13	FLARES.....	95,297 85,934
14	FUZES.....	50,795 20,795
	TOTAL, PROCUREMENT OF AMMO, AIR FORCE.....	782,825 655,884
	WEAPONS	
15	SMALL ARMS.....	12,343 10,093
	=====	=====
	TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE.....	795,168 665,977
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 ROCKETS	36,597	36,572
Excess to need - warhead SMK M156		-25
2 CARTRIDGES	169,163	161,917
Quantities previously funded - A165 cartridge 7.62MM M80		-1,650
Quantities previously funded - AA24 20MM, TP PGU-27 A/B		-3,197
Excess to need - BA54		-2,399
4 GENERAL PURPOSE BOMBS	176,565	160,976
Quantities previously funded - BLU-136/B 2000LB GP Bomb		-15,589
6 JOINT DIRECT ATTACK MUNITION	124,102	48,584
Prior year carryover - JDAM tail kits		-75,518
8 CAD/PAD	47,210	59,010
Program increase - CAD/PAD safety improvements		11,800
9 EXPLOSIVE ORDNANCE DISPOSAL	6,151	5,151
Excess to need - CTG, 50 CAL Elec Blank MK201 MOD 1		-500
Excess to need - M031 CHG Demo TNT 1/2 LB		-500
13 FLARES	95,297	85,934
Excess to need - LA85 MJU-75 flare		-9,363
14 FUZES	50,795	20,795
Early to need - C-HOBS		-25,000
Reduce carryover - FMU-139D/B		-5,000
15 SMALL ARMS	12,343	10,093
Hold for price adjustments excess growth		-2,250

(985)

ALIGNING THE NON-NUCLEAR CONSUMABLES ANNUAL ANALYSIS WITH ACQUISITION

The agreement directs the Secretary of the Air Force to study the sequencing of the Non-Nuclear Consumables Annual Analysis in relation to the development of annual budget requests and submit a report to the congressional defense committees on the findings and recommendations not later than 90 days after the enactment of this Act.

CARTRIDGE ACTUATED DEVICES/ PROPELLANT ACTUATED DEVICES (CAD/PAD) SAFETY

The agreement directs the Secretary of the Air Force to conduct a review of the current number of CAD/PAD devices operating with temporary life extensions and to develop a plan to align future year acquisition and installation activities to mitigate any identified deficiencies. The Secretary of the Air Force is directed to submit a report to the congressional defense committees containing the findings of this review not later than 90 days after of the enactment of this Act.

OTHER PROCUREMENT, AIR FORCE

The agreement provides \$26,615,079,000 for Other Procurement, Air Force, as follows:

~~-(INSERT COMPUTER TABLE)~~

INSERT (DOA-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.....	8,448	8,448
CARGO + UTILITY VEHICLES		
2 FAMILY MEDIUM TACTICAL VEHICLE.....	5,804	5,804
3 CAP VEHICLES.....	1,066	1,800
4 ITEMS LESS THAN \$5M (CARGO AND UTILITY VEHICLES)...	57,459	57,459
SPECIAL PURPOSE VEHICLES		
5 JOINT LIGHT TACTICAL VEHICLE.....	97,326	90,584
6 SECURITY AND TACTICAL VEHICLES.....	488	6,088
7 ITEMS LESS THAN \$5M (SPECIAL PURPOSE VEHICLES)....	75,694	77,694
FIRE FIGHTING EQUIPMENT		
8 FIRE FIGHTING/CRASH RESCUE VEHICLES.....	12,525	12,525
MATERIALS HANDLING EQUIPMENT		
9 ITEMS LESS THAT \$5M (MATERIALS HANDLING EQUIPMENT)	34,933	37,203
BASE MAINTENANCE SUPPORT		
10 RUNWAY SNOW REMOVAL & CLEANING EQUIP.....	9,134	9,134
11 ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT VEHICLES).....	111,820	103,728
TOTAL, VEHICULAR EQUIPMENT.....	414,697	410,467
ELECTRONICS AND TELECOMMUNICATIONS EQUIP		
COMM SECURITY EQUIPMENT(COMSEC)		
13 COMSEC EQUIPMENT.....	66,022	66,022
14 STRATEGIC MICROELECTRONIC SUPPLY SYSTEM.....	885,051	885,051
INTELLIGENCE PROGRAMS		
15 INTERNATIONAL INTEL TECH AND ARCHITECTURES.....	5,809	5,809
16 INTELLIGENCE TRAINING EQUIPMENT.....	5,719	5,719
17 INTELLIGENCE COMM EQUIP.....	25,844	25,844
ELECTRONICS PROGRAMS		
18 TRAFFIC CONTROL/LANDING.....	44,516	40,673
19 BATTLE CONTROL SYSTEM - FIXED.....	2,940	2,940
20 THEATER AIR CONTROL SYS IMPRO.....	43,442	43,442
21 3D EXPEDITIONARY LONG-RANGE RADAR.....	96,186	96,186
22 WEATHER OBSERVATION FORECAST.....	32,376	32,376
23 STRATEGIC COMMAND AND CONTROL.....	37,950	38,162

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
24 CHEYENNE MOUNTAIN COMPLEX.....	8,258	8,258
25 MISSION PLANNING SYSTEMS.....	14,717	14,717
26 INTEGRATED STRAT PLAN AND ANALY NETWORK (ISPAN)...	---	4,845
SPECIAL COMM-ELECTRONICS PROJECTS		
27 GENERAL INFORMATION TECHNOLOGY.....	43,917	74,447
28 AF GLOBAL COMMAND & CONTROL SYSTEM.....	414	414
30 MOBILITY COMMAND AND CONTROL.....	10,619	10,619
31 AIR FORCE PHYSICAL SECURITY SYSTEM.....	101,896	101,896
32 COMBAT TRAINING RANGES.....	222,598	343,088
33 COMBAT TRAINING RANGES (AP).....	14,730	---
34 MINIMUM ESSENTIAL EMERGENCY COMM N.....	77,119	65,326
35 WIDE AREA SURVEILLANCE (WAS).....	38,794	38,794
36 C3 COUNTERMEASURES.....	131,238	119,635
37 INTEGRATED PERSONNEL AND PAY SYSTEM.....	15,240	15,240
38 GCSS-AF FOS.....	3,959	3,959
39 DEFENSE ENTERPRISE ACCOUNTING AND MGMT.....	---	3,103
40 MAINTENANCE REPAIR AND OVERHAUL INITIATIVE.....	4,387	4,387
41 THEATER BATTLE MGT C2 SYS.....	4,052	4,052
42 AIR AND SPACE OPERATIONS CTR-WPN SYSTEM.....	2,224	23,019
AIR FORCE COMMUNICATIONS		
43 INFORMATION TRANSPORT SYSTEMS.....	58,499	58,499
44 AFNET.....	65,354	65,354
45 JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE).....	4,377	4,377
46 USCENTCOM.....	18,101	18,101
47 USSTRATCOM.....	4,226	4,226
ORGANIZATION AND BASE		
48 TACTICAL C-E EQUIPMENT.....	162,955	157,817
49 RADIO EQUIPMENT.....	14,232	14,232
51 BASE COMM INFRASTRUCTURE.....	200,797	201,547
MODIFICATIONS		
52 COMM ELECT MODS.....	18,607	18,607
TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP.	2,487,165	2,620,783

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OTHER BASE MAINTENANCE AND SUPPORT EQUIP		
53	PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000,000 (SAFETY)	106,449 69,787
54	DEPOT PLANT + MATERIALS HANDLING EQ POWER CONDITIONING EQUIPMENT	11,274 11,274
55	MECHANIZED MATERIAL HANDLING	8,594 8,594
56	BASE SUPPORT EQUIPMENT BASE PROCURED EQUIPMENT	1 31,000
57	ENGINEERING AND EOD EQUIPMENT	32,139 32,139
58	MOBILITY EQUIPMENT	63,814 63,814
59	FUELS SUPPORT EQUIPMENT (FSE)	17,928 17,928
60	ITEMS LESS THAN \$5M (BASE SUPPORT)	48,534 39,067
SPECIAL SUPPORT PROJECTS		
62	DARP RC135	27,359 27,359
63	DISTRIBUTED GROUND SYSTEMS	261,070 261,070
65	SPECIAL UPDATE PROGRAM	777,652 936,652

TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP.		1,354,814 1,498,684
SPARE AND REPAIR PARTS		
66	SPARES AND REPAIR PARTS (CYBER)	978 978
67	SPARES AND REPAIR PARTS	9,575 9,575
CLASSIFIED PROGRAMS		20,983,908 22,074,592
=====		=====
TOTAL, OTHER PROCUREMENT, AIR FORCE		25,251,137 26,615,079
=====		=====

1000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
3 CAP VEHICLES	1,066	1,800
Program increase - Civil Air Patrol		734
5 JOINT LIGHT TACTICAL VEHICLE	97,326	90,584
JLTV and trailers unit cost adjustments		-6,742
6 SECURITY AND TACTICAL VEHICLES	488	6,088
Program increase - HMMWV modernization program		5,600
7 SPECIAL PURPOSE VEHICLES	75,694	77,694
Program increase - special purpose vehicles		2,000
9 MATERIALS HANDLING EQUIPMENT	34,933	37,203
Air Force requested transfer from OM,AF line 11R		2,270
11 BASE MAINTENANCE SUPPORT VEHICLES	111,820	103,728
Base vehicle replacement funding carryover		-8,092
18 AIR TRAFFIC CONTROL & LANDING SYSTEMS	44,516	40,673
Deployable Instrument Landing System (D-ILS) contractor services and support early to need		-1,471
Deployable Radar Approach Control (D-RAPCON) contractor services early to need		-2,372
23 STRATEGIC COMMAND AND CONTROL	37,950	38,162
Transfer from RDTE,AF line 317		212
26 INTEGRATED STRAT PLAN & ANALY NETWORK (ISPAN)	0	4,845
Transfer from RDTE,AF line 317		4,845
27 GENERAL INFORMATION TECHNOLOGY	43,917	74,447
Program increase - INDOPACOM Mission Partner Environment		30,530
32 COMBAT TRAINING RANGES	222,598	343,088
Program increase - simplified planning execution analysis and reconstruction		5,000
ARTS-V1 full funding		14,730
Program increase - P6CTS (TCT II) ground system		2,460
Program increase - AESA radar characterization for test infrastructure		23,000
Program increase - C-band and S-band radar emulator upgrade for test infrastructure		75,300
33 COMBAT TRAINING RANGES (AP)	14,730	0
Unjustified request		-14,730
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS		
34 NETWORK	77,119	65,326
GASNTi1 ICS excess growth		-9,035
GASNTi1 fixed revised budget estimate		-800
Installation travel early to need		-1,958

100%

P-1	Budget Request	Final Bill
36 C3 COUNTERMEASURES Air Force Cyber Defense insufficient budget justification	131,238	119,635 -11,603
39 DEFENSE ENTERPRISE ACCOUNTING & MGT SYS (DEAMS) Transfer from RDTE,AF line 319	0	3,103 3,103
42 AIR AND SPACE OPERATIONS CENTER (AOC) Transfer from RDTE,AF line 318	2,224	23,019 20,795
48 TACTICAL C-E EQUIPMENT Excess growth	162,955	157,817 -5,138
51 BASE COMM INFRASTRUCTURE Program increase - land mobile radios	200,797	201,547 750
53 PERSONAL SAFETY & RESCUE EQUIPMENT NGES ahead of need	106,449	69,787 -36,662
56 BASE PROCURED EQUIPMENT Programming error Program increase - modular small arms ranges only for Air National Guard Program increase - civil engineering survey equipment	1	31,000 -1 25,000 6,000
60 BASE MAINTENANCE AND SUPPORT EQUIPMENT Trailers early to need	48,534	39,067 -9,467
65 SPECIAL UPDATE PROGRAM Classified adjustment	777,652	936,652 159,000
999 CLASSIFIED PROGRAMS Classified adjustment	20,983,908	22,074,592 1,090,684

100E

IMPROVING FINANCIAL STEWARDSHIP AND TRANSPARENCY

The agreement directs the Assistant Secretary of the Air Force (Financial Management and Comptroller) to provide the P-5, P-5a, P-21, and P-40 budget exhibits for unclassified programs in budget activities three and four, including such information for fiscal year 2021 and 2022, with the fiscal year 2023 President's budget request.

PROCUREMENT, SPACE FORCE

The agreement provides \$3,023,408,000 for Procurement, Space Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT 102A-B

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT, SPACE FORCE		
2 SPACE PROGRAMS AF SATELLITE COMM SYSTEM.....	43,655	39,655
3 COUNTERSPACE SYSTEMS.....	64,804	64,804
4 FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS.....	39,444	36,544
5 GENERAL INFORMATION TECH - SPACE.....	3,316	3,316
6 GPSIII FOLLOW ON.....	601,418	852,918
7 GPS III SPACE SEGMENT.....	84,452	84,452
8 GLOBAL POSITIONING (SPACE).....	2,274	2,274
9 HERITAGE TRANSITION.....	13,529	13,529
10 SPACEBORNE EQUIP (COMSEC).....	26,245	46,945
11 MILSATCOM.....	24,333	24,333
12 SBIR HIGH (SPACE).....	154,526	154,526
13 SPECIAL SPACE ACTIVITIES.....	142,188	131,488
14 MOBILE USER OBJECTIVE SYSTEM.....	45,371	45,371
15 NATIONAL SECURITY SPACE LAUNCH.....	1,337,347	1,327,347
16 NUDET DETECTION SYSTEM.....	6,690	6,690
17 PTES HUB.....	7,406	7,406
18 ROCKET SYSTEMS LAUNCH PROGRAM.....	10,429	30,429
20 SPACE MODS.....	64,371	56,325
21 SPACELIFT RANGE SYSTEM SPACE.....	93,774	93,774
22 SPARES AND REPAIR PARTS.....	1,282	1,282

TOTAL, PROCUREMENT, SPACE FORCE.....	2,766,854	3,023,408
	=====	=====

102A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 AF SATELLITE COMM SYSTEM	43,655	39,655
Unjustified cost growth		-4,000
4 FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS	39,444	36,544
Unjustified support services growth		-2,900
6 GPSIII FOLLOW ON	601,418	852,918
Unjustified cost growth		-8,500
Program increase - one spacecraft		260,000
10 SPACEBORNE EQUIP (COMSEC)	26,245	46,945
Unjustified unit cost growth		-2,000
Program increase - space-rated crypto devices		22,700
13 SPECIAL SPACE ACTIVITIES	142,188	131,488
Classified adjustment		-10,700
15 NATIONAL SECURITY SPACE LAUNCH	1,337,347	1,327,347
Unjustified request - manifest flexibility		-10,000
18 ROCKET SYSTEMS LAUNCH PROGRAM	10,429	30,429
Program increase - small launch services		20,000
20 SPACE MODS	64,371	56,325
Inadequate justification		-8,046

102B

NATIONAL SECURITY SPACE LAUNCH

The agreement notes the tremendous success of the National Security Space Launch (NSSL) program in reliably delivering critical national security satellites to orbit. However, the agreement notes with concern that failure to properly budget for NSSL launches should not be accepted as a rationale to seek launches outside of the space launch enterprise. Therefore, the agreement directs the Secretary of Defense and the Director of National Intelligence to utilize the Space Force launch enterprise for NSSL-class missions unless the Secretary of Defense or the Director of National Intelligence certify, as appropriate, to the congressional defense and intelligence committees that an alternative launch procurement approach for a designated mission is in the national security interest of the government, and provide a rationale for such a determination.

PROCUREMENT, DEFENSE-WIDE

The agreement provides \$6,177,561,000 for Procurement, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (104A-E)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
PROCUREMENT, DEFENSE-WIDE		
MAJOR EQUIPMENT		
MAJOR EQUIPMENT, DCMA		
2	MAJOR EQUIPMENT, DCSA	
	MAJOR EQUIPMENT.....	3,014 3,014
4	MAJOR EQUIPMENT, DHRA	
	PERSONNEL ADMINISTRATION.....	4,042 4,042
10	MAJOR EQUIPMENT, DISA	
	INFORMATION SYSTEMS SECURITY.....	18,923 18,923
11	TELEPORT PROGRAM.....	34,908 34,908
12	JOINT FORCES HEADQUARTERS - DODIN.....	1,968 1,968
13	ITEMS LESS THAN \$5M.....	42,270 42,270
14	DEFENSE INFORMATION SYSTEMS NETWORK.....	18,025 18,025
15	WHITE HOUSE COMMUNICATION AGENCY.....	44,522 44,522
16	SENIOR LEADERSHIP ENTERPRISE.....	54,592 54,592
17	JOINT REGIONAL SECURITY STACKS (JRSS).....	62,657 62,657
18	JOINT SERVICE PROVIDER.....	102,039 102,039
19	FOURTH ESTATE NETWORK OPTIMIZATION (4ENO).....	80,645 80,645
21	MAJOR EQUIPMENT, DLA	
	MAJOR EQUIPMENT.....	530,896 510,896
22	MAJOR EQUIPMENT, DMACT	
	MAJOR EQUIPMENT.....	8,498 8,498
23	MAJOR EQUIPMENT, DODEA	
	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS.....	2,963 2,963
24	MAJOR EQUIPMENT, DPAA	
	MAJOR EQUIPMENT, DPAA.....	494 494
MAJOR EQUIPMENT, DSS		
26	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY	
	VEHICLES.....	118 118
27	OTHER MAJOR EQUIPMENT.....	12,681 12,681
29	MAJOR EQUIPMENT, MDA	
	THAAD SYSTEM.....	251,543 380,722
31	AEGIS BMD.....	334,621 334,621
32	AEGIS BMD (AP).....	17,493 17,493
33	BMDS AN/TPY-2 RADARS.....	2,738 2,738

104A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
34 AEGIS BMD SM-3 BLOCK IIA.....	295,322	488,022
35 ISRAELI PROGRAMS.....	62,000	62,000
36 SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD).....	30,000	30,000
37 DEFENSE OF GUAM PROCUREMENT.....	40,000	80,000
38 AEGIS ASHORE PHASE III.....	25,866	25,866
39 IRON DOME SYSTEM.....	108,000	108,000
40 AEGIS BMD HARDWARE AND SOFTWARE.....	81,791	81,791
46 MAJOR EQUIPMENT, NSA INFORMATION SYSTEMS SECURITY PROGRAM (ISSP).....	315	315
47 MAJOR EQUIPMENT, OSD MAJOR EQUIPMENT, OSD.....	31,420	34,420
48 MAJOR EQUIPMENT, SDA.....	74,060	86,060
49 MAJOR EQUIPMENT, TJS MAJOR EQUIPMENT, TJS.....	7,830	7,830
MAJOR EQUIPMENT, WHS AGILE PROCUREMENT TRANSITION PILOT.....	---	100,000
TOTAL, MAJOR EQUIPMENT.....	2,386,254	2,843,133
SPECIAL OPERATIONS COMMAND AVIATION PROGRAMS		
52 ARMED OVERWATCH/TARGETING.....	170,000	166,000
53 MANNED ISR.....	2,500	2,500
54 MC-12.....	2,250	2,250
55 MH-60 BLACKHAWK.....	29,900	58,976
56 SOF ROTARY WING UPGRADES AND SUSTAINMENT.....	202,278	207,278
57 Unmanned ISR.....	55,951	64,951
58 NON-STANDARD AVIATION.....	3,282	3,282
59 SOF U-28.....	4,176	4,176
60 MH-47 CHINOOK.....	130,485	130,485
61 CV-22 SOF MODIFICATION.....	41,762	46,572
62 MQ-9 UNMANNED AERIAL VEHICLE.....	8,020	8,020
63 PRECISION STRIKE PACKAGE.....	165,224	165,224
64 AC/MC-130J.....	205,216	205,216
65 C-130 MODIFICATIONS.....	13,373	13,373

104B

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
66 SHIPBUILDING UNDERWATER SYSTEMS.....	17,227	23,327
67 AMMUNITION PROGRAMS SOF ORDNANCE ITEMS UNDER \$5,000,000.....	168,072	162,212
68 OTHER PROCUREMENT PROGRAMS SOF INTELLIGENCE SYSTEMS.....	131,889	131,889
69 DCGS-SOF.....	5,991	5,991
70 OTHER ITEMS UNDER \$5,000,000.....	62,722	55,722
71 SOF COMBATANT CRAFT SYSTEMS.....	17,080	17,080
72 SPECIAL PROGRAMS.....	44,351	75,531
73 TACTICAL VEHICLES.....	26,806	36,806
74 WARRIOR SYSTEMS UNDER \$5,000,000.....	284,548	364,378
75 COMBAT MISSION REQUIREMENTS.....	27,513	4,513
77 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	20,252	20,252
78 SOF OPERATIONAL ENHANCEMENTS.....	328,569	389,872
TOTAL, SPECIAL OPERATIONS COMMAND.....	2,169,437	2,365,876
79 CHEMICAL/BIOLOGICAL DEFENSE CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS.....	167,918	151,180
80 CB PROTECTION AND HAZARD MITIGATION.....	189,265	191,034
TOTAL, CHEMICAL/BIOLOGICAL DEFENSE.....	357,183	342,214
9999 CLASSIFIED PROGRAMS.....	635,338	626,338
TOTAL, PROCUREMENT, DEFENSE-WIDE.....	5,548,212	6,177,561

1041C

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
21 MAJOR EQUIPMENT	530,896	510,896
MGUE excess growth		-20,000
29 THAAD SYSTEM	251,543	380,722
Program increase - fourteen THAAD interceptors		129,179
34 AEGIS BMD SM-3 Block IIA	295,322	488,022
Program increase - eight SM-3 IIA interceptors		192,700
37 DEFENSE OF GUAM PROCUREMENT	40,000	80,000
Program increase - Guam defense system acceleration		40,000
47 MAJOR EQUIPMENT, OSD	31,420	34,420
Program increase - mentor-protégé program		3,000
48 MAJOR EQUIPMENT, SDA	74,060	86,060
Transfer from RDDW, line 126, only to fully fund Tranche 1 launch		12,000
XXX AGILE PROCUREMENT TRANSITION PILOT	0	100,000
Program increase - agile procurement transition pilot		100,000
52 ARMED OVERWATCH/TARGETING	170,000	166,000
Unit cost growth		-4,000
55 MH-60 BLACKHAWK	29,900	58,976
Program increase - battle loss replacement		29,076
56 SOF ROTARY WING UPGRADES AND SUSTAINMENT	202,278	207,278
Program increase - DVEPS		5,000
57 UNMANNED ISR	55,951	64,951
Program increase - soldier borne systems		9,000
61 CV-22 SOF MODIFICATION	41,762	46,572
Program increase - CV-22 reliability acceleration		5,810
ICS growth		-1,000
66 UNDERWATER SYSTEMS	17,227	23,327
Program increase - modernized forward-look sonar		900
Program increase - combat diving advanced equipment acceleration		5,200
67 SOF ORDNANCE ITEMS UNDER \$5M	168,072	162,212
Excess to need		-5,860
70 SOF OTHER ITEMS UNDER \$5M	62,722	55,722
Collateral equipment program decrease		-7,000

104D

P-1	Budget Request	Final Bill
72 SPECIAL PROGRAMS Program increase - medium fixed wing mobility modifications	44,351	75,531 31,180
73 TACTICAL VEHICLES Program increase - non-standard commercial vehicles	26,806	36,806 10,000
74 SOF WARRIOR SYSTEMS UNDER \$5M Program increase - STC Program increase - cUAS	284,548	364,378 1,500 78,330
75 COMBAT MISSION REQUIREMENTS Underexecution	27,513	4,513 -23,000
78 SOF OPERATIONAL ENHANCEMENTS Program increase - AGMS acceleration Program increase - fused panoramic night vision goggles (F-PANO) acceleration	328,569	389,872 33,303 28,000
79 CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS FC ACS excess growth Unit cost growth - DRS Program Support growth - SCIRP	167,918	151,180 -16,450 -188 -100
80 CB PROTECTION AND HAZARD MITIGATION UIPE FOS GP UIPE FOS air support cost growth JSAM SA cost growth Program increase - smallpox antiviral stockpile	189,265	191,034 -5,381 -2,250 -600 10,000
999 CLASSIFIED PROGRAMS Classified adjustment	635,338	626,338 -9,000

104E

DEFENSE PRODUCTION ACT PURCHASES

The agreement provides \$388,327,000 for Defense Production Act Purchases, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
DEFENSE PRODUCTION ACT PURCHASES	340,927	388,327
Program increase - rare earth supply chain		40,000
Program increase - manufacturing of shipbuilding components		5,000
Program increase - inspection and process control technology for microfluidic device		2,400
TOTAL, DEFENSE PRODUCTION ACT PURCHASES	340,927	388,327

HYPERSONIC ENGINE INDUSTRIAL BASE

The agreement includes \$38,000,000, as requested, in Defense Production Act Purchases for investments in the hypersonic engine industrial base. Consistent with the Department's goals to ensure a vibrant, competitive, and diverse defense industrial base, the Under Secretary of Defense for Acquisition and Sustainment is encouraged to prioritize investments in sub-tier suppliers in support of the Services' hypersonics program requirements.

RARE EARTH PROCESSING

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 assesses the feasibility of assigning responsibilities for the light rare earth (LRE) processing activities to the Department of the Army in order to synchronize LRE and heavy rare

earth initiatives. The report shall include any impacts on the industrial base and potential cost efficiencies.

NATIONAL GUARD AND RESERVE EQUIPMENT

The agreement provides \$950,000,000 for National Guard and Reserve Equipment, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
NATIONAL GUARD AND RESERVE EQUIPMENT ACCOUNT	0	950,000
Army National Guard	0	285,000
Program increase - miscellaneous equipment		285,000
Air National Guard	0	285,000
Program increase - miscellaneous equipment		285,000
Army Reserve	0	155,000
Program increase - miscellaneous equipment		155,000
Navy Reserve	0	52,500
Program increase - miscellaneous equipment		52,500
Marine Corps Reserve	0	17,500
Program increase - miscellaneous equipment		17,500
Air Force Reserve	0	155,000
Program increase - miscellaneous equipment		155,000
TOTAL, NATIONAL GUARD AND RESERVE EQUIPMENT ACCOUNT	0	950,000

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 agreement also directs the Secretary of Defense to provide the report identified in 10 U.S.C. 10541 to the congressional defense committees, not later than May 30, 2022, for the fiscal year 2023 budget.

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; airborne and ground detect and avoid systems; aviation status dashboard; controlled humidity preservation; counter-UAS systems; crashworthy, ballistically tolerant auxiliary fuel systems; containerized ice making systems; cybersecurity for critical base infrastructure; gamma radiation protection; helmet-mounted display system; hospital pods; hypervisor-based cross domain access solution; KC-135 aircraft forward area refueling/defueling stations; land surveying systems; laser ablation system; mobile solar power units/systems; modular small arms ranges and small arms training simulators and tools; pilot physiological monitoring systems; radiological screening portals; training systems and simulators; UH-60 internal auxiliary fuel tanks; UH-72A/B S&S mission equipment modernization; upgraded commercial-off-the-shelf ground mapping for C-130 aircraft; vehicle-mounted

and man-portable radiological nuclear detection systems; Tactical Combat Training System; and virtual language training systems.

TITLE IV - RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The agreement provides \$119,211,192,000 in Title IV, Research, Development, Test and Evaluation, as follows:

~~(INSERT RDTE SUMMARY TABLE)~~

INSERT (IDA)

(DOLLARS IN THOUSANDS)

BUDGET
REQUEST

FINAL
BILL

RECAPITULATION

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY.....	12,799,645	14,539,417
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY.....	22,639,362	22,139,080
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE.	39,184,328	41,592,913
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE.....	11,266,387	11,597,405
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE.....	25,857,875	29,065,786
OPERATIONAL TEST AND EVALUATION, DEFENSE.....	216,591	276,591

GRAND TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION.....	111,964,188	119,211,192
	=====	=====

110A

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense Appropriations bill for Fiscal Year 2008 (House Report 110-279). Specifically, the dollar threshold for reprogramming funds 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. Additional guidance is provided in the overview of this explanatory statement.

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 joint 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 joint explanatory statement.

OTHER TRANSACTION AUTHORITY

The agreement directs the Under Secretary of Defense for Acquisition and Sustainment to continue the previously established reporting requirements on the use of Other Transaction Authority (OTA) while working with the congressional defense committees to establish improved procedures for execution of OTAs across the Department and plans to enhance the data collection process. Not later than 60 days after enactment of this Act, the Under Secretary of Defense for Acquisition and Sustainment shall brief the congressional defense committees on courses of action to improve the data collection process across the Department, to include alternatives to the Federal Procurement Data System-Next Generation or modifications to the system that provides greater transparency and accountability and makes such data available to the public to the maximum extent practicable.

SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS

The agreement encourages the Secretary of Defense to execute the recommended pilot programs through fiscal year 2022, while performing detailed analysis of the Department’s accounting and financial management process for such pilot programs

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

TRANSITION OF PROGRAMS FROM THE STRATEGIC CAPABILITIES OFFICE

It is concerning that for programs planned for transition from the Strategic Capabilities Office (SCO) to the Services, detailed cost, schedule, and budget data are not routinely included with SCO’s and the Services’ budget justification materials despite previous congressional direction. It is further 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 2023 President’s budget request, a matrix identifying SCO programs with their SCO and respective transition partners’ detailed program schedules, and future years defense program profiles by fiscal year, appropriations account, and program element.

REPORTING ON MIDDLE-TIER ACQUISITION AND RAPID PROTOTYPING PROGRAMS

As stated in the joint explanatory statement accompanying the Department of Defense Appropriations Act, 2021 (Public Law 116–260), the spectrum of programs using rapid development, rapid prototyping, rapid acquisition, accelerated acquisition, and middle-tier acquisition (“section 804”) authorities range from small programs that have already deployed prototypes to programs that, by virtue of their scope and cost, would otherwise be subject to reporting requirements and acquisition regulations applicable to traditional major defense acquisition category I programs. The Department of Defense’s continued use of such acquisition authorities is noted. However, the lack of standard acquisition information provided to the congressional defense committees for such programs with the budget request, to include independent cost estimates, technology and manufacturing readiness assessments, and test and evaluation master plans, is concerning. In addition, it is concerning that the Services’ growing trend toward procuring de facto end-items via prototyping acquisitions may limit the Services’ ability to successfully manage their acquisition programs in the long term by eliminating the complete understanding of full program costs up front, unnecessarily narrowing the industrial base early in the acquisition process, and eliminating opportunities for future innovation by reducing competition over the life of the acquisition. Further, it is concerning 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.

It is noted that the Department did not, with submission of the fiscal year 2022 President’s budget request, comply with direction contained in section 8058 of the Department of Defense Appropriations Act, 2021 (Public Law 116–260), which was intended to provide more insight into the use of legislative authorities and research,

development, test and evaluation funds for these purposes. This direction is repeated for fiscal year 2022. The Under Secretaries of Defense for Research and Engineering and Acquisition and Sustainment, in coordination with the Service acquisition executives for the Army, Navy, and Air Force, are directed to provide to the congressional defense committees with submission of the fiscal year 2023 President's budget request a complete list of approved acquisition programs, and programs pending approval in fiscal year 2023, utilizing prototyping or accelerated acquisition authorities, along with the rationale for each selected acquisition strategy, as well as a cost estimate and contracting strategy for each such program. Further, the Under Secretary of Defense (Comptroller) and the respective Financial Manager and Comptrollers for the Army, Navy, and Air Force, are directed to certify full funding of the acquisition strategies for each of these programs in the fiscal year 2023 President's budget request, including their test strategies. Finally, the Director of 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 of Operational Test and Evaluation, provide the information requested above with submission of the fiscal year 2022 President's budget, any variations therefrom should be included with the fiscal year 2023 submission. In addition, the Services' Financial Manager and Comptrollers are directed to identify the full costs for prototyping units by individual item in the research, development, test and evaluation budget exhibits for the budget year as well as the future years defense program.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

The agreement provides \$14,539,417,000 for Research, Development, Test and Evaluation, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (116A-U)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY		
BASIC RESEARCH		
1 DEFENSE RESEARCH SCIENCES.....	297,241	370,241
2 UNIVERSITY RESEARCH INITIATIVES.....	66,981	91,981
3 UNIVERSITY AND INDUSTRY RESEARCH CENTERS.....	94,003	127,253
4 CYBER COLLABORATIVE RESEARCH ALLIANCE.....	5,067	5,067
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASIC		
5 RESEARCH.....	10,183	15,183
TOTAL, BASIC RESEARCH.....		
	473,475	609,725
APPLIED RESEARCH		
6 BIOMEDICAL TECHNOLOGY.....	11,925	11,925
7 COUNTER IMPROVISED-THREAT ADVANCED STUDIES.....	1,976	1,976
8 LETHALITY TECHNOLOGY.....	64,126	91,626
9 ARMY APPLIED RESEARCH.....	28,654	28,654
10 SOLDIER LETHALITY TECHNOLOGY.....	105,168	205,168
11 GROUND TECHNOLOGY.....	56,400	216,550
12 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY.....	172,166	245,966
13 NETWORK C3I TECHNOLOGY.....	84,606	164,906
14 LONG RANGE PRECISION FIRES TECHNOLOGY.....	64,285	93,785
15 FUTURE VERTICAL LIFT TECHNOLOGY.....	91,411	133,411
16 AIR AND MISSILE DEFENSE TECHNOLOGY.....	19,316	93,566
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING		
17 TECHNOLOGIES.....	15,034	15,034
18 ALL DOMAIN CONVERGENCE APPLIED RESEARCH.....	25,967	25,967
19 C3I APPLIED RESEARCH.....	12,406	12,406
20 AIR PLATFORM APPLIED RESEARCH.....	6,597	6,597
21 SOLDIER APPLIED RESEARCH.....	11,064	11,064
22 C3I APPLIED CYBER.....	12,123	12,123
23 BIOTECHNOLOGY FOR MATERIALS - APPLIED RESEARCH.....	20,643	20,643
24 MANPOWER/PERSONNEL/TRAINING TECHNOLOGY.....	18,701	18,701
25 MEDICAL TECHNOLOGY.....	91,720	121,187
TOTAL, APPLIED RESEARCH.....		
	914,288	1,531,255

116A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
26 ADVANCED TECHNOLOGY DEVELOPMENT MEDICAL ADVANCED TECHNOLOGY.....	43,804	137,804
27 MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY..	14,273	14,273
28 ARMY AGILE INNOVATION AND DEMONSTRATION.....	22,231	22,231
29 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ADVANCED TECHNOLOGIES.....	909	909
30 ALL DOMAIN CONVERGENCE ADVANCED TECHNOLOGY.....	17,743	17,743
31 C3I ADVANCED TECHNOLOGY.....	3,151	3,151
32 AIR PLATFORM ADVANCED TECHNOLOGY.....	754	754
33 SOLDIER ADVANCED TECHNOLOGY.....	890	890
34 MEDICAL DEVELOPMENT.....	26,521	26,521
35 LETHALITY ADVANCED TECHNOLOGY.....	8,066	8,066
36 ARMY ADVANCED TECHNOLOGY DEVELOPMENT.....	76,815	76,815
37 SOLDIER LETHALITY ADVANCED TECHNOLOGY.....	107,966	152,466
38 GROUND ADVANCED TECHNOLOGY.....	23,403	280,503
39 COUNTER IMPROVISED-THREAT SIMULATION.....	24,747	24,747
40 BIOTECHNOLOGY FOR MATERIALS - ADVANCED RESEARCH.....	53,736	53,736
41 C3I CYBER ADVANCED DEVELOPMENT.....	31,426	61,426
42 HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM.....	189,123	229,123
43 NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY....	164,951	300,201
44 NETWORK C3I ADVANCED TECHNOLOGY.....	155,867	211,367
45 LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY.....	93,909	141,909
46 FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY.....	179,677	262,177
47 AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY.....	48,826	145,826
48 HUMANITARIAN DEMINING.....	8,649	19,000
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	1,297,437	2,191,638
49 ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES ARMY MISSILE DEFENSE SYSTEMS INTEGRATION.....	11,702	56,702
50 ARMY SPACE SYSTEMS INTEGRATION.....	18,755	25,755
51 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING.....	---	15,000
52 LANDMINE WARFARE AND BARRIER - ADV DEV.....	50,314	46,687
53 TANK AND MEDIUM CALIBER AMMUNITION.....	79,873	73,963
54 ARMORED SYSTEM MODERNIZATION - ADV DEV.....	170,590	164,340
55 SOLDIER SUPPORT AND SURVIVABILITY.....	2,897	2,897
56 TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - ADV DEV.....	113,365	113,365

116B

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
57 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT.....	18,000	62,820
58 ENVIRONMENTAL QUALITY TECHNOLOGY - DEM/VAL.....	11,921	22,921
59 NATO RESEARCH AND DEVELOPMENT.....	3,777	3,777
60 AVIATION - ADV DEV.....	1,125,641	1,178,460
61 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV.....	7,055	11,055
62 MEDICAL SYSTEMS - ADV DEV.....	22,071	37,071
63 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT.....	17,459	25,959
64 ROBOTICS DEVELOPMENT.....	87,198	80,712
65 EXPANDED MISSION AREA MISSILE (EMAM).....	50,674	27,872
67 LOW EARTH ORBIT (LEO) SATELLITE CAPABILITY.....	19,638	19,638
68 MULTI-DOMAIN SENSING SYSTEM (MDSS) ADV DEV.....	50,548	50,548
69 TACTICAL INTEL TARGETING ACCESS NODE (TITAN) ADV DEV..	28,347	28,347
70 ANALYSIS OF ALTERNATIVES.....	10,091	10,091
71 SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.4).....	926	926
72 FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS).....	69,697	76,349
73 LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR.....	327,690	297,629
74 TECHNOLOGY MATURATION INITIATIVES.....	270,124	132,561
75 MANEUVER - SHORT RANGE AIR DEFENSE (M-SHORAD).....	39,376	39,376
76 ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING.....	189,483	189,483
77 ASSURED POSITIONING, NAVIGATION AND TIMING (PNT).....	96,679	84,795
78 SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING.....	194,195	206,335
79 COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING.....	13,379	13,379
80 HYPERSONICS.....	300,928	315,448
81 FUTURE INTERCEPTOR.....	7,895	6,895
82 COUNTER - SMALL UNMANNED AIRCRAFT SYSTEMS ADVANCED DEVELOPMENT.....	19,148	19,148
83 UNIFIED NETWORK TRANSPORT.....	35,409	35,409
84 MOBILE MEDIUM RANGE MISSILE.....	286,457	286,457
85 INTEGRATED BASE DEFENSE (BUDGET ACTIVITY 4).....	2,040	2,040
86 CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	52,988	55,988
TOTAL, ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES..	3,806,330	3,820,198

116C

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
89 SYSTEM DEVELOPMENT & DEMONSTRATION AIRCRAFT AVIONICS.....	6,654	6,654
90 ELECTRONIC WARFARE DEVELOPMENT.....	30,840	30,840
91 INFANTRY SUPPORT WEAPONS.....	67,873	79,339
92 MEDIUM TACTICAL VEHICLES.....	11,374	9,524
93 JAVELIN.....	7,094	7,094
94 FAMILY OF HEAVY TACTICAL VEHICLES.....	31,602	28,445
95 AIR TRAFFIC CONTROL.....	4,405	4,405
96 LIGHT TACTICAL WHEELED VEHICLES.....	2,055	2,055
97 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV.....	137,256	122,778
98 NIGHT VISION SYSTEMS - ENG/DEV.....	62,690	43,417
99 COMBAT FEEDING, CLOTHING, AND EQUIPMENT.....	1,658	1,658
100 NON-SYSTEM TRAINING DEVICES - ENG/DEV.....	26,540	26,540
101 AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE - ENG/DEV.....	59,518	59,518
102 CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT.....	22,331	22,331
103 AUTOMATIC TEST EQUIPMENT DEVELOPMENT.....	8,807	8,807
104 DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - ENG/DEV..	7,453	12,453
107 BRIGADE ANALYSIS, INTEGRATION AND EVALUATION.....	21,534	21,534
108 WEAPONS AND MUNITIONS - ENG/DEV.....	309,778	297,214
109 LOGISTICS AND ENGINEER EQUIPMENT - ENG/DEV.....	59,261	54,661
110 COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - ENG/DEV....	20,121	20,121
111 MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT.	44,424	44,424
112 LANDMINE WARFARE/BARRIER - ENG/DEV.....	14,137	29,137
113 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE...	162,704	155,217
114 RADAR DEVELOPMENT.....	127,919	122,607
115 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBs).....	17,623	15,979
117 SOLDIER SYSTEMS - WARRIOR DEM/VAL.....	6,454	6,454
118 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD.....	106,354	96,132
119 ARTILLERY SYSTEMS - EMD.....	---	25,000
120 INFORMATION TECHNOLOGY DEVELOPMENT.....	122,168	129,515
121 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A).....	76,936	67,701
122 ARMORED MULTI-PURPOSE VEHICLE (AMPV).....	35,560	35,560
124 JOINT TACTICAL NETWORK CENTER (JTNC).....	16,364	16,364
125 JOINT TACTICAL NETWORK (JTN).....	28,954	28,954
128 COMMON INFRARED COUNTERMEASURES (CIRCM).....	16,630	16,630

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
130 NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE....	7,618	7,618
131 DEFENSIVE CYBER TOOL DEVELOPMENT.....	18,892	18,892
132 TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER).....	28,849	28,849
133 CONTRACT WRITING SYSTEM.....	22,960	20,960
135 AIRCRAFT SURVIVABILITY DEVELOPMENT.....	65,603	61,768
136 INDIRECT FIRE PROTECTION CAPABILITY INC 2 - BLOCK 1...	233,512	182,268
137 GROUND ROBOTICS.....	18,241	16,360
138 EMERGING TECHNOLOGY INITIATIVES.....	254,945	227,303
139 BIOMETRICS ENABLING CAPABILITY (BEC).....	4,326	4,326
140 NEXT GENERATION LOAD DEVICE - MEDIUM.....	15,616	15,397
141 MEDICAL PRODUCTS AND SUPPORT SYSTEMS DEVELOPMENT.....	962	962
142 TACTICAL INTEL TARGETING ACCESS NODE (TITAN) EMD.....	54,972	54,972
143 ARMY SYSTEM DEVELOPMENT & DEMONSTRATION.....	122,175	122,175
144 SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.5).....	2,275	2,275
145 MULTI-DOMAIN INTELLIGENCE.....	9,313	9,313
146 SIO CAPABILITY DEVELOPMENT.....	22,713	22,713
147 PRECISION STRIKE MISSILE (PRSM).....	188,452	188,452
148 HYPersonics EMD.....	111,473	111,473
149 ACCESSIONS INFORMATION ENVIRONMENT (AIE).....	18,790	16,790
150 JOINT AIR-TO-GROUND MISSILE (JAGM).....	2,134	2,134
151 ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD).....	157,873	159,873
152 COUNTER - SMALL UNMANNED AIRCRAFT SYSTEMS SYS DEV & DEMONSTRATION.....	33,386	33,386
153 MANNED GROUND VEHICLE.....	225,106	202,320
154 NATIONAL CAPABILITIES INTEGRATION (MIP).....	14,454	13,454
155 JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING DEVELOPMENT.....	2,564	2,564
156 AVIATION GROUND SUPPORT EQUIPMENT.....	1,201	1,201
157 TROJAN - RH12.....	3,362	3,362
161 ELECTRONIC WARFARE DEVELOPMENT.....	75,520	75,520
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	3,392,358	3,255,742

116E

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
MANAGEMENT SUPPORT		
162 THREAT SIMULATOR DEVELOPMENT.....	18,439	61,439
163 TARGET SYSTEMS DEVELOPMENT.....	17,404	42,404
164 MAJOR T&E INVESTMENT.....	68,139	93,739
165 RAND ARROYO CENTER.....	33,126	33,126
166 ARMY KWAJALEIN ATOLL.....	240,877	240,877
167 CONCEPTS EXPERIMENTATION PROGRAM.....	79,710	79,710
169 ARMY TEST RANGES AND FACILITIES.....	354,227	367,227
170 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS.....	49,253	59,253
171 SURVIVABILITY/LETHALITY ANALYSIS.....	36,389	36,389
172 AIRCRAFT CERTIFICATION.....	2,489	2,489
173 METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES.....	6,689	6,689
174 MATERIEL SYSTEMS ANALYSIS.....	21,558	21,558
175 EXPLOITATION OF FOREIGN ITEMS.....	13,631	13,631
176 SUPPORT OF OPERATIONAL TESTING.....	55,122	55,122
177 ARMY EVALUATION CENTER.....	65,854	65,854
ARMY MODELING AND SIMULATION X-CMD COLLABORATION AND		
178 INTEG.....	2,633	2,633
179 PROGRAMWIDE ACTIVITIES.....	96,589	96,589
180 TECHNICAL INFORMATION ACTIVITIES.....	26,808	32,008
181 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY...	43,042	63,042
182 ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT.....	1,789	1,789
183 ARMY DIRECT REPORT HEADQUARTERS - R&D - MHA.....	52,108	49,108
185 RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE....	80,952	80,952
186 COUNTERINTEL AND HUMAN INTEL MODERNIZATION.....	5,363	5,363
187 MEDICAL PROGRAM-WIDE ACTIVITIES.....	39,041	39,041
188 ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES....	5,466	5,466
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,416,698	1,555,498

116F

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
OPERATIONAL SYSTEMS DEVELOPMENT		
190 MLRS PRODUCT IMPROVEMENT PROGRAM.....	12,314	12,314
191 ANTI-TAMPER TECHNOLOGY SUPPORT.....	8,868	8,868
192 WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS....	22,828	35,828
194 BLACKHAWK PRODUCT IMPROVEMENT PROGRAM.....	4,773	14,773
195 CHINOOK PRODUCT IMPROVEMENT PROGRAM.....	52,372	67,872
196 IMPROVED TURBINE ENGINE PROGRAM.....	275,024	260,024
AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND		
197 DEVELOPMENT.....	12,417	12,417
198 UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS.....	4,594	4,594
199 APACHE FUTURE DEVELOPMENT.....	10,067	10,067
200 AN/TPQ-53 COUNTERFIRE TARGET ACQUISITION RADAR SYSTEM.	56,681	47,752
201 INTEL CYBER DEVELOPMENT.....	3,611	3,611
202 ARMY OPERATIONAL SYSTEMS DEVELOPMENT.....	28,029	28,029
203 ELECTRONIC WARFARE DEVELOPMENT.....	5,673	5,673
204 FAMILY OF BIOMETRICS.....	1,178	1,178
205 PATRIOT PRODUCT IMPROVEMENT.....	125,932	125,932
206 JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM....	25,547	25,547
207 COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	211,523	280,130
208 155MM SELF-PROPELLED HOWITZER IMPROVEMENTS.....	213,281	175,155
209 AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS...	---	10,000
210 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	132	132
211 DIGITIZATION.....	3,936	3,936
212 MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	127	127
213 OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS.....	10,265	10,265
ENVIRONMENTAL QUALITY TECHNOLOGY - OPERATIONAL SYSTEM		
214 DEV.....	262	262
215 LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM.....	182	---
216 GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS).....	63,937	60,733
217 JOINT TACTICAL GROUND SYSTEM.....	13,379	13,379
219 SECURITY AND INTELLIGENCE ACTIVITIES.....	24,531	24,531
220 INFORMATION SYSTEMS SECURITY PROGRAM.....	15,720	15,720
221 GLOBAL COMBAT SUPPORT SYSTEM.....	52,739	45,297
222 SATCOM GROUND ENVIRONMENT (SPACE).....	15,247	15,247
226 INTEGRATED BROADCAST SERVICE (IBS).....	5,430	5,430
227 TACTICAL UNMANNED AERIAL VEHICLES.....	8,410	8,410

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
228 AIRBORNE RECONNAISSANCE SYSTEMS.....	24,460	24,460
233 BIOMETRICS ENABLED INTELLIGENCE.....	2,066	2,066
234 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	61,720	103,720
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,377,255	1,463,479
CLASSIFIED PROGRAMS.....	2,993	2,993
237 DEFENSIVE CYBER - SOFTWARE PROTOTYPE DEVELOPMENT.....	118,811	108,889
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY.....	12,799,645	14,539,417

116 H

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 DEFENSE RESEARCH SCIENCES	297,241	370,241
Program increase - explosives and opioids dual-use UV detection		5,000
Program increase - joint research laboratories		20,000
Program increase - lightweight high entropy metallic alloy discovery		3,000
Program increase - cell-free expression for biomanufacturing		10,000
Program increase - unmanned aerial systems hybrid propulsion		5,000
Program increase - digital thread for advanced manufacturing		5,000
Program increase - basic research		25,000
2 UNIVERSITY RESEARCH INITIATIVES	66,981	91,981
Program increase - defense university research instrumentation program		25,000
3 UNIVERSITY AND INDUSTRY RESEARCH CENTERS	94,003	127,253
Program increase - Army artificial intelligence innovation		20,000
Program increase - biotechnology advancements		4,000
Program increase - materials in extreme dynamic environments plus		5,000
Project increase - The Discovery Center at Water's Edge		250
Program increase - hypervelocity testing		3,000
Program increase - soldier protection materials		1,000
5 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASIC RESEARCH	10,183	15,183
Program increase - extreme events in structurally evolving materials		5,000
8 LETHALITY TECHNOLOGY	64,126	91,626
Program increase - next generation remote sensing		3,000
Program increase - hybrid additive manufacturing for advanced lethality		5,000
Program increase - materials processing manufacturing technology		10,000
Program increase - universal nanocrystalline alloys		3,000
Program increase - hypersonic wind tunnel development		6,500
10 SOLDIER LETHALITY TECHNOLOGY	105,168	205,168
Program increase - Catalyst TRACA data ready		5,000
Program increase - HEROES		5,000
Program increase - Pathfinder airborne		8,000
Program increase - enhancing soldier ballistic technologies		5,000
Program increase - advanced silicon anode material for batteries		10,000
Program increase - advanced textiles and shelters		6,000
Program increase - academic accelerator program		15,000
Program increase - military footwear research		3,000
Program increase - Pathfinder transitional research advanced capability acceleration		8,000
Program increase - Pathfinder air assault		10,000
Program increase - materials development for personal protective systems		10,000
Program increase - digital night vision technology		5,000
Program increase - nanolayered polymer optics		10,000

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11 GROUND TECHNOLOGY	56,400	216,550
Program increase - additive manufacturing machine learning initiative		5,000
Program increase - advanced manufacturing materials processes initiative		10,000
Program increase - autonomous digital design and manufacturing		5,000
Program increase - defense resiliency against extreme cold weather		10,000
Program increase - electrolyzer		7,000
Program increase - environmental quality enhanced coatings		5,000
Program increase - flexible hybrid electronics and environmental sustainability		12,000
Program increase - high performance polymers		5,000
Program increase - materials recovery technologies for defense supply resiliency		10,000
Program increase - solid oxide fuel cell development		10,000
Program increase - advanced polymers for force protection		8,000
Program increase - advanced materials manufacturing		8,000
Program increase - anti-corrosion materials		7,000
Program increase - ceramic materials for extreme environments		8,000
Program increase - earthen structures soil enhancement		4,000
Program increase - PFAS modeling		5,000
Program increase - polar proving ground and training program		2,000
Program increase - rapid advanced deposition		5,000
Program increase - rare earth initiative		7,000
Program increase - verified inherent control		10,000
Program increase - rapid infrastructure development and engineering		3,000
Program increase - climate and natural hazards, snow-covered and mountain environment sensing research		6,000
Program increase - integrity of transparent armor		5,000
Program increase - tank tracks		3,150
12 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	172,166	245,966
Program increase - advanced materials development for survivability		5,000
Program increase - advanced optics program		4,300
Program increase - digital design and simulated testing		4,000
Program increase - highly electrified vehicles		5,000
Program increase - prototyping energy smart autonomous ground systems		10,000
Program increase - silicon carbide electronics		5,500
Program increase - vehicle equivalency framework utilizing multiple additive manufacturing platforms		5,000
Program increase - virtual experimentation of autonomous and non-autonomous combat vehicles		3,000
Program increase - fast-refueling fuel cell engines		7,000
Program increase - hydrogen technologies		10,000
Program increase - machine learning optimized power electronics		3,000
Program increase - zero emission combat vehicles		3,000
Program increase - systems engineering for autonomous ground vehicles		9,000

R-1	Budget Request	Final Bill
13 NETWORK C3I TECHNOLOGY	84,606	164,906
Program increase - backpackable COMINT system		5,000
Program increase - EW and advanced sensing		6,500
Program increase - integrated photonics for contested RF environments		15,000
Program increase - ALTNV		13,800
Program increase - anti-tamper technology		5,000
Program increase - mobile environmental contaminant sensors		5,000
Program increase - mass-distributed acoustic surveillance network		8,000
Program increase - distributed radio frequency and sensor technology development		8,000
Program increase - urban subterranean mapping technologies		4,000
Program increase - social network analysis		5,000
Program increase - energy efficient devices		5,000
14 LONG RANGE PRECISION FIRES TECHNOLOGY	64,285	93,785
Program increase - extended range and hybrid gun launched unmanned aerial systems		10,000
Program increase - high speed structures for advanced materials		10,000
Program increase - novel printed armament components		3,000
Program increase - extended range propulsion technology		6,500
15 FUTURE VERTICAL LIFT TECHNOLOGY	91,411	133,411
Program increase - high strength functional composites		5,000
Program increase - individual blade and higher harmonic control		5,000
Program increase - adaptive flight control technology		7,000
Program increase - high density eVOTL power source		15,000
Program increase - rotor blade operational readiness		5,000
Program increase - missile technology transfer and innovation		5,000
16 AIR AND MISSILE DEFENSE TECHNOLOGY	19,316	93,566
Program increase - beam control systems and industry grade optical fiber fabrication for directed energy laser		12,000
Program increase - counter UAS center for excellence		5,000
Program increase - machine learning optimized power electronics		3,000
Program increase - precision long range integrated strike		5,250
Program increase - Army missile risk-based mission assurance		15,000
Program increase - HEL lethality testing and expansion		10,000
Program increase - HEL optical technology		6,000
Program increase - HEL technology integration		10,000
Program increase - kill chain automation		8,000
25 MEDICAL TECHNOLOGY	91,720	121,187
Program increase - military force vector borne health protection		5,000
Program increase - RNA therapeutics for infectious disease threats		7,500
Project increase - National Trauma Research Repository Data Population Project		1,900
Project increase - Holistic Health and Fitness		1,500
Project increase - Center for Excellence in Military Health and Performance Enhancement		3,567
Program increase - physiological study of female warfighters to improve training		5,000
Program increase - biological performance technology		5,000

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26 MEDICAL ADVANCED TECHNOLOGY	43,804	137,804
Program increase - hearing protection for communications		5,000
Program increase - optimizing military health and performance		7,000
Program increase - peer-reviewed military burn research		10,000
Program increase - peer-reviewed neurofibromatosis research		20,000
Program increase - peer-reviewed Parkinson's research		16,000
Program increase - burn care training curriculum		5,000
Program increase - heat stress on female service members		2,000
Program increase - rapid vaccine development		10,000
Program increase - trauma immunology research		5,000
Program increase - dengue vaccine development		6,000
Program increase - suicide prevention with focus on rural, remote, isolated, and OCONUS installations		3,000
Program increase - Aerial Reconfigurable Embedded System		5,000
37 SOLDIER LETHALITY ADVANCED TECHNOLOGY	107,966	152,466
Program increase - small arms fire control advanced technology		8,000
Program increase - advanced AI/AA analytics for modernization and readiness		10,000
Program increase - ferrium steel for improved personal protective equipment		5,000
Program increase - human machine teaming		4,000
Program increase - impact attenuation materials for limb protection		1,500
Program increase - soldier situational awareness		8,000
Program increase - squad operations advanced resupply		8,000

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38 GROUND ADVANCED TECHNOLOGY	23,403	280,503
Program increase - 3D printing of infrastructure		5,000
Program increase - clean modular hydro technology		8,000
Program increase - composite flywheel technology		7,000
Program increase - cross-laminated timber and recycled carbon fiber materials		5,500
Program increase - electrical system safety and reliability		5,000
Program increase - electrochemical conversion of waste streams		5,000
Program increase - expeditionary additive construction		15,000
Program increase - explosive materials detection		3,000
Program increase - high-performance concrete		6,000
Program increase - microgrid reliability and resiliency		10,000
Program increase - military waste stream conversion		5,000
Program increase - organic light emitting diode		5,000
Program increase - power generation for increased facility resilience pilot		10,000
Program increase - rapid entry and sustainment for the arctic		8,000
Program increase - secure management of energy generation and storage		5,000
Program increase - water quality and resiliency technologies		5,000
Program increase - accelerator technology for ground maneuver		5,000
Program increase - additive construction for field deployment		4,000
Program increase - anticipating threats to natural systems		5,000
Program increase - coastal terrain hazard research		6,000
Program increase - autonomous construction and manufacturing		5,000
Program increase - autonomous combat engineering solutions		4,000
Program increase - biofuel		6,000
Program increase - biomass polymer technology		2,000
Program increase - cold weather energy research		5,000
Program increase - cold weather research		3,000
Program increase - distributed technologies for steam loop replacements		5,000
Program increase - frost heave effects monitoring		4,500
Program increase - graphene applications for military engineering		10,000
Program increase - hardened facility standards		4,600
Program increase - impacts of soil structures on hydrology		5,000
Program increase - infrastructure resilience and flood assessment		3,500
Program increase - infrastructure smart technology		5,000
Program increase - materials and manufacturing technology for cold environments		4,000
Program increase - partnership and technology transfer		4,000
Program increase - power projection		7,000
Program increase - sustainable smart utilities		5,000
Program increase - water resiliency and self sufficiency		4,000
Program increase - 3D printing of concrete		2,000
Program increase - entry control points at installations		5,000
Program increase - low carbon hydrogen technologies		10,000
Program increase - assessments and monitoring systems for historic structures		5,000
Program increase - high power fast charging for electric vehicle fleets		3,000
Program increase - water reuse consortium		10,000
Program increase - watercraft simulator		4,000
Program increase - cold weather research station		2,000
Program increase - Army visual and tactical arctic reconnaissance		2,000
41 C3I CYBER ADVANCED DEVELOPMENT	31,426	61,426
Program increase - high bandwidth cryptomodule enhancements and certification		30,000
42 HIGH PERFORMANCE COMPUTING MODERNIZATION	189,123	229,123
Program increase		40,000

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43 NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY	164,951	300,201
Program increase - additive manufacturing for jointless hull		15,000
Program increase - advanced adhesives		5,000
Program increase - ATE5.2 engine development		5,000
Program increase - carbon fiber and graphitic foam		5,000
Program increase - carbon fiber tires		5,000
Program increase - combat vehicle lithium 6T battery development		5,000
Program increase - combat vehicle weight reduction initiative		5,000
Program increase - force protection vehicle kit		5,000
Program increase - fuel cell technology		5,000
Program increase - machine learning for advanced lightweight combat vehicle structures		6,000
Program increase - RCV-L		5,000
Program increase - short fiber thermoplastic applications		4,000
Program increase - virtual autonomy environment		3,750
Program increase - advanced materials applications		12,000
Program increase - augmented reality for denied environments		7,000
Program increase - autonomous minefield clearance		7,000
Program increase - autonomous vehicle mobility		10,000
Program increase - HMMVV automotive enhancements		3,000
Program increase - predictive maintenance system		2,000
Program increase - unmanned navigation technology		2,500
Program increase - virtual and physical prototyping		8,000
Program increase - off-road maneuver		5,000
Program increase - maneuverable lightweight electric weight reducer		5,000
44 NETWORK C3I ADVANCED TECHNOLOGY	155,867	211,367
Program increase - APNT technology		4,000
Program increase - advanced materials for resilient sensors		5,000
Program increase - alternative navigation for GPS-denied landing environments		4,500
Program increase - edge-high performance computing for multi-domain operations		5,000
Program increase - HALITE		7,000
Program increase - next generation command posts		10,000
Program increase - receiver-sensor technology for tactical networks		15,000
Program increase - tactical geospatial information capabilities		5,000
45 LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	93,909	141,909
Program increase - extended range artillery munitions suite		20,000
Program increase - hypervelocity projectile extended range		25,000
Program increase - maneuvering submunitions for precision strike missile		3,000

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R-1	Budget Request	Final Bill
46 FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	179,677	262,177
Program increase - data refinement and optimization for aviation sustainment		4,500
Program increase - FLEETSPACE maintenance tool		4,500
Program increase - FVL surface tolerant adhesives		4,000
Program increase - joint tactical aerial resupply vehicle		8,000
Program increase - UH-60 main rotor blade modernization		5,000
Program increase - 20mm chaingun development for FLRAA		8,000
Program increase - digital backbone		5,000
Program increase - elastomeric imaging		3,000
Program increase - platform digitization and maintenance		5,000
Program increase - stretch broken carbon fiber		10,000
Program increase - UAS fuel systems enhancements		2,000
Program increase - composite structures		5,000
Program increase - degraded visual environment		3,500
Program increase - air launched turbojet missile		15,000
47 AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY	48,826	145,826
Program increase - IFPC HEL risk reduction		46,000
Program increase - thermal management systems for 10kw to 50 kw lasers		12,000
Program increase - missile MENTOR		15,000
Program increase - armored combat vehicle HEL integration		11,000
Program increase - HEL for all-terrain vehicles		5,000
Program increase - silicon carbide electronics		8,000
48 HUMANITARIAN DEMINING	8,649	19,000
Program increase		10,351
49 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	11,702	56,702
Program increase - A2IFS		23,500
Program increase - electro-magnetic denial and protect		6,000
Program increase - integrated environmental control and power		5,000
Program increase - multiple engagement end-to-end testbed		2,500
Program increase - PNT resiliency lab		8,000
50 ARMY SPACE SYSTEMS INTEGRATION	18,755	25,755
Program increase - communications resiliency arrays of distributed local elements		5,000
Program increase - multi-function and multi-mission payload		2,000
51 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	0	15,000
Program increase - machine learning for integrated fires		10,000
Program increase - software memory protection methods		5,000
52 LANDMINE WARFARE AND BARRIER - ADV DEV	50,314	46,687
SAVO OTA previously funded		-386
SAVO test requirements previously funded		-1,186
Next generation mounted breaching system TMRR government costs ahead of need		-555
Next generation mounted breaching system experimentation testing ahead of need		-1,500
53 TANK AND MEDIUM CALIBER AMMUNITION	79,873	73,963
Testing excess		-2,500
LRPM product development ahead of need		-3,410

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R-1	Budget Request	Final Bill
54 ARMORED SYSTEM MODERNIZATION - ADV DEV	170,590	164,340
Testing excess		-4,250
Experimental prototyping excess to need		-6,000
Program increase - advanced combat engine		4,000
57 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	18,000	62,820
HUD ECP ahead of need		-10,180
Transfer from OPA line 83 for IVAS development		55,000
58 ENVIRONMENTAL QUALITY TECHNOLOGY - DEM/VAL	11,921	22,921
Program increase - underwater cut and capture demonstration		3,000
Program increase - wire-arc additive manufacturing		5,000
Program increase - biopolymers for military infrastructure		3,000
60 AVIATION - ADV DEV	1,125,641	1,178,460
FLRAA PM costs excess growth		-4,500
FARA prototype costs previously funded		-10,000
FARA ecosystem excess		-5,000
FARA MOSA development excess		-5,000
Program increase - all electric flight control systems		5,000
FARA SEPM unjustified growth		-5,181
Program increase - FLRAA		77,500
61 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV	7,055	11,055
Program increase - lightweight portable power generation		4,000
62 MEDICAL SYSTEMS - ADV DEV	22,071	37,071
Program increase - wearable medical device for TBI prevention		5,000
Program increase - freeze-dried platelets		10,000
63 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	17,459	25,959
Program increase - multi-spectral signature management		4,500
Program increase - lightweight C-sUAS force protection system		4,000
64 ROBOTICS DEVELOPMENT	87,198	80,712
Other support costs unjustified growth		-11,820
Prototype manufacturing costs ahead of need		-8,615
Modeling and simulation carryover		-6,051
Program increase - robotic combat vehicle - medium		20,000
65 EXPANDED MISSION AREA MISSILE (EMAM)	50,674	27,872
IFPC-HEL prototype contract ahead of need		-6,757
IFPC-HPM prototype contract ahead of need		-16,045
72 FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS)	69,697	76,349
Program increase - future unmanned aircraft systems		15,000
FUAS labor excess due to acquisition strategy change		-13,348
Program increase - micro-IFF for FTUAS		5,000
73 LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR	327,690	297,629
Long term power and support costs ahead of need		-10,061
Prototyping/P31 carryover		-10,955
Test and evaluation carryover		-9,045

116 P

R-1	Budget Request	Final Bill
74 TECHNOLOGY MATURATION INITIATIVES	270,124	132,561
Failure to properly manage rescission		-30,041
Emerging technology development initiatives undefined requirements		-34,920
Super-system and technology product prototyping undefined requirement		-72,602
77 ASSURED POSITIONING, NAVIGATION AND TIMING (PNT)	96,679	84,795
MAPS client platform and integration transitioning to procurement		-11,884
78 SYNTHETIC TRAINING ENVIRONMENT REFINEMENT & PROTOTYPING	194,195	206,335
AvSE excess to need		-2,460
Program increase - multi-sensor terrain data capture and processing		4,600
Program increase - next generation MILES		10,000
80 HYPERSONICS	300,928	315,448
Overestimation of GSE		-34,480
Program increase - glidebody risk reduction		44,000
Program increase - near net shape materials		5,000
81 FUTURE INTERCEPTOR	7,895	6,895
Excess to need		-1,000
86 CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	52,988	55,988
Prior year PCTE excess to OTA award		-1,000
Program increase - Army cyber institutes		4,000
91 INFANTRY SUPPORT WEAPONS	67,873	79,339
Program increase - cannon life extension program		1,500
Program increase - turret gunner survivability and simulation environment		5,000
Advanced tactical parachute DT/OT unjustified growth		-935
Next generation fire control OTA savings		-4,099
Program increase - soldier enhancement program		10,000
92 MEDIUM TACTICAL VEHICLES	11,374	9,524
OT previously funded		-1,850
94 FAMILY OF HEAVY TACTICAL VEHICLES	31,602	28,445
EHETS training ahead of need		-1,632
Leader/follower test support ahead of need		-1,525
97 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV	137,256	122,778
SSEB excess		-1,750
MPF program management costs transition to procurement		-1,956
Excess to need		-10,772
98 NIGHT VISION SYSTEMS - ENG DEV	62,690	43,417
NVG-N undefined acquisition strategy		-19,273
104 DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - ENG DEV	7,453	12,453
Program increase - Bathymetric unmanned littoral LiDar		5,000

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R-1	Budget Request	Final Bill
108 WEAPONS AND MUNITIONS - ENG DEV	309,778	297,214
C-DAEM overestimation		-3,056
Unjustified growth - XM654 engineering support		-3,658
XM654 cased supercharge qualification testing ahead of need		-1,000
Reduction in .50 cal reduced range ammunition EMD vendors		-1,350
7.62mm reduced range ammunition EMD down-select previously funded		-1,500
OWL 7.62mm EMD down-select previously funded		-2,000
109 LOGISTICS AND ENGINEER EQUIPMENT - ENG DEV	59,261	54,661
Carryover		-5,000
FoHMLC-B DSB max weight testing previously funded		-1,600
Program increase - national hydrography dataset		2,000
112 LANDMINE WARFARE/BARRIER - ENG DEV	14,137	29,137
Program increase - prototype integration		15,000
113 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE	162,704	155,217
CECOM contract delays		-1,946
Rigid wall shelter duplication		-1,450
AIC modernization ahead of need		-2,147
Unjustified growth - Army Tactical C2 Systems Engineering		-1,944
114 RADAR DEVELOPMENT	127,919	122,607
A4 product development excess to need		-5,312
115 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS)	17,623	15,979
GFEBS capability enhancement carryover		-1,644
118 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS - EMD	106,354	96,132
PM maintain level of effort		-2,300
Survivability enhancements unjustified growth		-3,922
MAC carryover		-20,000
Program increase - BFV active protection system		16,000
119 ARTILLERY SYSTEMS - EMD	0	25,000
Program increase - soft recoil artillery systems		25,000
120 INFORMATION TECHNOLOGY DEVELOPMENT	122,168	129,515
GFIM Phase II insufficient budget justification		-3,429
USMIRS 1.1 non-core applications overestimation		-1,724
Program increase - installation access control technology		4,500
Program increase - smart installation and community program		8,000
121 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A)	76,936	67,701
Prior year carryover		-5,000
Funded in operation and maintenance		-4,235
133 CONTRACT WRITING SYSTEM	22,960	20,960
ACWS product development delays		-2,000

116 R

R-1	Budget Request	Final Bill
135 AIRCRAFT SURVIVABILITY DEVELOPMENT	65,603	61,768
Machine learning unjustified need		-1,535
LIMWS development carryover		-5,300
Program increase - aviation AI virtual training environment		3,000
136 INDIRECT FIRE PROTECTION CAPABILITY INC 2 - BLOCK 1	233,512	182,268
OTA prototyping ahead of need		-51,244
137 GROUND ROBOTICS	18,241	16,360
S-MET PMO support transition to procurement		-700
Common Robotic Controller PMO support unjustified growth		-1,181
138 EMERGING TECHNOLOGY INITIATIVES	254,945	227,303
Program increase - high energy laser targeting systems		5,000
Program increase - cUAS integration with robotic vehicles		5,000
Unjustified growth - concept prototyping		-37,642
140 NEXT GENERATION LOAD DEVICE - MEDIUM	15,616	15,397
Test and evaluation ahead of need		-219
149 ACCESSIONS INFORMATION ENVIRONMENT (AIE)	18,790	16,790
Development delays		-2,000
151 ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)	157,873	159,873
Beyond IOC costs ahead of need		-4,000
Program increase - kill chain automation		6,000
153 MANNED GROUND VEHICLE	225,106	202,320
PM support excess		-5,500
Unjustified growth - other support costs		-8,886
Phase 2 contract savings		-8,400
154 NATIONAL CAPABILITIES INTEGRATION (MIP)	14,454	13,454
Air Vigilance development overestimation		-1,000
162 THREAT SIMULATOR DEVELOPMENT	18,439	61,439
Program increase - cybersecurity operations center		40,000
Program increase - threat cyberspace operations		3,000
163 TARGET SYSTEMS DEVELOPMENT	17,404	42,404
Program increase - UAS swarm threat representation, detection, and mitigation		25,000
164 MAJOR T&E INVESTMENT	68,139	93,739
Program increase - advancing operational test infrastructure		25,600
169 ARMY TEST RANGES AND FACILITIES	354,227	367,227
Program increase - counter-UAS HEL platform integration		10,000
Program increase - environmental characterization for test operations		3,000
170 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	49,253	59,253
Program increase - RAMP-T		10,000

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R-1	Budget Request	Final Bill
180 TECHNICAL INFORMATION ACTIVITIES	26,808	32,008
Program increase - extending standard sharable geospatial foundation to tactical edge warriors		5,200
181 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND	43,042	63,042
Program increase - foamable celluloid materials		5,000
Program increase - industrial base resiliency initiative		5,000
Program increase - polymer case ammunition		5,000
Program increase - additive manufacturing of high temperature alloys		5,000
183 ARMY DIRECT REPORT HEADQUARTERS - R&D - MHA	52,108	49,108
Overestimation of requirements		-3,000
192 WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS	22,828	35,828
Program increase - printed electronics		5,000
Program increase - tungsten manufacturing affordability initiative for armaments		8,000
194 BLACKHAWK PRODUCT IMPROVEMENT PROGRAM	4,773	14,773
Program increase - blade improvement		10,000
195 CHINOOK PRODUCT IMPROVEMENT PROGRAM	52,372	67,872
Program increase - CH-47 engine enhancement		7,500
Program increase - lightweight ballistic protection system		8,000
196 IMPROVED TURBINE ENGINE PROGRAM	275,024	260,024
Platform integration previously funded		-15,000
200 AN/TPQ-53 COUNTERFIRE TARGET ACQUISITION RADAR SYSTEM	56,681	47,752
DDREX NRE phasing		-8,929
207 COMBAT VEHICLE IMPROVEMENT PROGRAMS	211,523	280,130
Program increase - Abrams modernization		65,000
Program increase - next generation auxiliary power unit		5,000
Unjustified growth - Bradley PMO support		-1,393
208 155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	213,281	175,155
ERCA rate of fire prototype build ahead of need		-38,126
209 AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS	0	10,000
Program increase - UAS ground based sense and avoid		10,000
215 LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM	182	0
Program transitioned to Patriot Product Improvement line		-182
216 GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS)	63,937	60,733
OGA carryover		-3,204
221 GLOBAL COMBAT SUPPORT SYSTEM	52,739	45,297
Testing excess		-2,000
DISCOPS acquisition strategy change		-5,442

116T

R-1	Budget Request	Final Bill
234 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	61,720	103,720
Program increase - liquid hydrogen refueling systems		10,000
Program increase - N2O5		10,000
Program increase - advanced manufacturing cell for missile fins		8,000
Program increase - lightweight transparent film armor		4,000
Program increase - scalable manufacturing of engineered fabrics		5,000
Program increase - nanoscale materials manufacturing		5,000
237 DEFENSIVE CYBER - SOFTWARE PROTOTYPE DEVELOPMENT	118,811	108,889
Overestimation of program management costs		-6,922
Overestimation of DCO mission planning costs		-3,000
Cyberspace analytics excess to need		

116 U

ANTIMICROBIAL TEXTILES

The agreement directs the Assistant Secretary of Defense for Sustainment, not later than 180 days after the enactment of this Act, to provide a report to the congressional defense committees on the current efforts, effectiveness, and feasibility of including antimicrobial and antiviral technology in the manufacturing of Service-issued clothing and individual equipment. The report shall include an analysis of the technical maturity of available antimicrobial and antiviral textile-based solutions and a strategy for incorporating any technically mature solutions into Service issued clothing or personal equipment. The report shall also include a review of the ability of the industrial base to support the manufacturing of these products and identify any resources or capability gaps that exist within the industrial base to meet the demand.

STRATEGIC LONG RANGE CANNON

The Strategic Long Range Cannon (SLRC) is one of the Army's 35 modernization priorities. However, the fiscal year 2022 budget request does not explicitly identify funding for SLRC, despite requests in the previous two budgets. The Army has indicated to the congressional defense committees that the program is still viable and intends to continue to make progress towards fielding SLRC, including the use of fiscal year 2022 appropriated funding. Without a request for funding or a plan to further mature the system in fiscal year 2022, the agreement does not recommend funding for SLRC. Therefore, if the Army intends to resource SLRC in fiscal year 2022, the Secretary of the Army is directed to submit to the House and Senate Appropriations Committees, not later than 30 days prior to obligation of funds, a comprehensive funding plan across the future years defense program and a detailed schedule of activities.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

The agreement provides \$22,139,080,000 for Research, Development, Test and Evaluation, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT 118A-S

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY			
BASIC RESEARCH			
1	UNIVERSITY RESEARCH INITIATIVES.....	117,448	174,898
3	DEFENSE RESEARCH SCIENCES.....	484,421	523,421
	TOTAL, BASIC RESEARCH.....	601,869	698,319
APPLIED RESEARCH			
4	POWER PROJECTION APPLIED RESEARCH.....	23,013	43,013
5	FORCE PROTECTION APPLIED RESEARCH.....	122,888	222,388
6	MARINE CORPS LANDING FORCE TECHNOLOGY.....	51,112	64,112
7	COMMON PICTURE APPLIED RESEARCH.....	51,477	51,477
8	WARFIGHTER SUSTAINMENT APPLIED RESEARCH.....	70,547	117,738
9	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH.....	85,157	91,157
10	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH.....	70,086	103,586
11	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH.....	6,405	6,405
12	UNDERSEA WARFARE APPLIED RESEARCH.....	57,484	107,734
13	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH.....	173,356	198,233
14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH.....	32,160	42,160
15	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH....	152,976	155,976
16	SCIENCE AND TECHNOLOGY MANAGEMENT - ONR HEADQUARTERS..	79,254	79,254
	TOTAL, APPLIED RESEARCH.....	975,915	1,283,233
ADVANCED TECHNOLOGY DEVELOPMENT			
17	FORCE PROTECTION ADVANCED TECHNOLOGY.....	21,661	36,161
18	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY.....	8,146	12,146
19	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD) ..	224,155	291,791
20	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.....	13,429	13,429
21	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV.....	265,299	282,237
22	MANUFACTURING TECHNOLOGY PROGRAM.....	57,236	77,236
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY.....	4,935	40,435
24	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.....	47,167	60,167
25	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	1,981	1,981
26	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY..	133,779	156,613
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	777,788	972,196
ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
27	UNMANNED AERIAL SYSTEM.....	16,879	16,167

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
28 LARGE UNMANNED SURFACE VEHICLES (LUSVS).....	144,846	102,846
29 AIR/OCEAN TACTICAL APPLICATIONS.....	27,849	27,849
30 AVIATION SURVIVABILITY.....	16,815	24,815
31 NAVAL CONSTRUCTION FORCES.....	5,290	5,290
33 ASW SYSTEMS DEVELOPMENT.....	17,612	20,612
34 TACTICAL AIRBORNE RECONNAISSANCE.....	3,111	3,111
35 ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	32,310	35,310
36 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	58,013	53,391
37 SURFACE SHIP TORPEDO DEFENSE.....	1,862	8,862
38 CARRIER SYSTEMS DEVELOPMENT.....	7,182	7,182
39 PILOT FISH.....	408,087	408,087
40 RETRACT LARCH.....	44,197	44,197
41 RETRACT JUNIPER.....	144,541	144,541
42 RADIOLOGICAL CONTROL.....	761	761
43 SURFACE ASW.....	1,144	1,144
44 ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	99,782	99,782
45 SUBMARINE TACTICAL WARFARE SYSTEMS.....	14,059	14,059
46 SHIP CONCEPT ADVANCED DESIGN.....	111,590	126,618
47 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	106,957	40,787
48 ADVANCED NUCLEAR POWER SYSTEMS.....	203,572	203,572
49 ADVANCED SURFACE MACHINERY SYSTEMS.....	78,122	76,922
50 CHALK EAGLE.....	80,270	80,270
51 LITTORAL COMBAT SHIP (LCS).....	84,924	82,518
52 COMBAT SYSTEM INTEGRATION.....	17,322	17,322
53 OHIO REPLACEMENT.....	296,231	311,231
54 LCS MISSION MODULES.....	75,995	75,995
55 AUTOMATED TEST AND RE-TEST.....	7,805	37,805
56 FRIGATE DEVELOPMENT.....	109,459	100,203
57 CONVENTIONAL MUNITIONS.....	7,296	7,296
58 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	77,065	66,565
59 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	34,785	34,785
60 OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT.....	8,774	8,774
61 ENVIRONMENTAL PROTECTION.....	20,677	20,677
62 NAVY ENERGY PROGRAM.....	33,824	57,824

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
63 FACILITIES IMPROVEMENT.....	6,327	6,327
64 CHALK CORAL.....	579,389	579,389
65 NAVY LOGISTIC PRODUCTIVITY.....	669	669
66 RETRACT MAPLE.....	295,295	295,295
67 LINK PLUMERIA.....	692,280	663,780
68 RETRACT ELM.....	83,904	83,904
69 LINK EVERGREEN.....	221,253	264,453
71 NATO RESEARCH AND DEVELOPMENT.....	5,805	5,805
72 LAND ATTACK TECHNOLOGY.....	4,017	4,017
73 JOINT NONLETHAL WEAPONS TESTING.....	29,589	28,168
74 JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	24,450	22,950
75 DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS.....	81,803	81,803
76 F/A-18 INFRARED SEARCH AND TRACK (IRST).....	48,793	48,793
77 DIGITAL WARFARE.....	46,769	46,769
78 SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES.....	84,676	79,947
79 UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES.....	59,299	66,137
81 LARGE UNMANNED UNDERSEA VEHICLES.....	88,063	66,651
82 GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER.....	121,509	121,509
83 LITTORAL AIRBORNE MCM.....	18,669	18,669
84 SURFACE MINE COUNTERMEASURES.....	13,655	12,507
85 TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES.....	33,246	33,246
86 NEXT GENERATION LOGISTICS.....	1,071	8,071
87 FUTURE VERTICAL LIFT (MARITIME STRIKE).....	9,825	8,274
88 RAPID TECHNOLOGY CAPABILITY PROTOTYPE.....	6,555	11,555
89 LX (R).....	3,344	3,344
90 ADVANCED UNDERSEA PROTOTYPING.....	58,473	31,668
91 COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS).....	5,529	5,529
92 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM.....	97,944	90,694
93 SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE..	9,340	9,340
94 OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT.....	127,756	70,792
95 MEDIUM UNMANNED SURFACE VEHICLES (MUSVS).....	60,028	60,028
96 UNMANNED SURFACE VEHICLE ENABLING CAPABILITIES.....	170,838	120,138
97 GROUND BASED ANTI-SHIP MISSILE (MARFORRES).....	102,716	102,716
98 LONG RANGE FIRES (MARFORRES).....	88,479	88,479
99 CONVENTIONAL PROMPT STRIKE (CPS).....	1,372,340	1,324,051

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
100 ASW SYSTEMS DEVELOPMENT - MIP.....	8,571	8,571
101 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM.....	16,204	36,204
102 ELECTRONIC WARFARE DEVELOPMENT - MIP.....	506	506
TOTAL, DEMONSTRATION & VALIDATION.....	7,077,987	6,877,918
SYSTEM DEVELOPMENT & DEMONSTRATION		
103 TRAINING SYSTEM AIRCRAFT.....	5,864	5,864
104 OTHER HELO DEVELOPMENT.....	56,444	49,312
105 AV-8B AIRCRAFT - ENG DEV.....	10,146	10,146
106 STANDARDS DEVELOPMENT.....	4,082	4,082
107 MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT.....	46,418	54,418
108 P-3 MODERNIZATION PROGRAM.....	579	579
109 WARFARE SUPPORT SYSTEM.....	10,167	13,167
110 COMMAND AND CONTROL SYSTEMS.....	122,913	122,913
111 ADVANCED HAWKEYE.....	386,860	348,360
112 H-1 UPGRADES.....	50,158	50,158
113 ACOUSTIC SEARCH SENSORS.....	46,066	49,057
114 V-22A.....	107,984	105,729
115 AIR CREW SYSTEMS DEVELOPMENT.....	22,746	20,746
116 EA-18.....	68,425	59,674
117 ELECTRONIC WARFARE DEVELOPMENT.....	139,535	136,593
118 EXECUTIVE HELO DEVELOPMENT.....	45,932	41,847
119 NEXT GENERATION JAMMER (NGJ).....	243,923	235,407
120 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY).....	234,434	234,434
121 NEXT GENERATION JAMMER (NGJ) INCREMENT II.....	248,096	146,596
122 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING.....	371,575	331,820
123 LPD-17 CLASS SYSTEMS INTEGRATION.....	904	904
124 SMALL DIAMETER BOMB (SDB).....	46,769	40,852
125 STANDARD MISSILE IMPROVEMENTS.....	343,511	343,511
126 AIRBORNE MCM.....	10,881	10,881
127 NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG.....	46,121	50,233
128 ADVANCED SENSORS APPLICATION PROGRAM (ASAP).....	---	10,000
129 ADVANCED ABOVE WATER SENSORS.....	77,852	62,185
130 SSN-688 AND TRIDENT MODERNIZATION.....	95,693	95,693
131 AIR CONTROL.....	27,499	27,499

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
132 SHIPBOARD AVIATION SYSTEMS.....	8,924	8,924
133 COMBAT INFORMATION CENTER CONVERSION.....	11,631	11,631
134 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM.....	96,556	87,520
135 ADVANCED ARRESTING GEAR (AAG).....	147	147
136 NEW DESIGN SSN.....	503,252	486,938
137 SUBMARINE TACTICAL WARFARE SYSTEM.....	62,115	62,115
138 SHIP CONTRACT DESIGN/LIVE FIRE T&E.....	54,829	54,829
139 NAVY TACTICAL COMPUTER RESOURCES.....	4,290	4,290
140 MINE DEVELOPMENT.....	76,027	37,944
141 LIGHTWEIGHT TORPEDO DEVELOPMENT.....	94,386	94,386
142 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	8,348	8,348
143 USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG DEV..	42,144	42,144
144 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS...	7,375	7,375
146 SHIP SELF DEFENSE (DETECT & CONTROL).....	149,433	142,595
147 SHIP SELF DEFENSE (ENGAGE: HARD KILL).....	87,862	107,488
148 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW).....	69,006	65,460
149 INTELLIGENCE ENGINEERING.....	20,684	20,684
150 MEDICAL DEVELOPMENT.....	3,967	31,467
151 NAVIGATION/ID SYSTEM.....	48,837	50,037
152 JOINT STRIKE FIGHTER (JSF) - EMD.....	577	577
153 JOINT STRIKE FIGHTER (JSF).....	262	262
154 SSN(X).....	29,829	29,829
155 MARINE CORPS IT DEV/MOD.....	11,277	11,277
156 INFORMATION TECHNOLOGY DEVELOPMENT.....	243,828	271,085
157 ANTI-TAMPER TECHNOLOGY SUPPORT.....	8,426	8,426
158 TACAMO MODERNIZATION.....	150,592	50,592
159 CH-53K.....	256,903	256,903
160 MISSION PLANNING.....	88,128	88,128
161 COMMON AVIONICS.....	60,117	60,117
162 SHIP TO SHORE CONNECTOR (SSC).....	6,320	6,320
163 T-AO 205 CLASS.....	4,336	4,336
164 UNMANNED CARRIER AVIATION.....	268,937	261,992
165 JOINT AIR-TO-GROUND MISSILE (JAGM).....	356	356
166 MULTI-MISSION MARITIME AIRCRAFT (MMA).....	27,279	27,279

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
167 MULTI-MISSION MARITIME AIRCRAFT (MMA) INCREMENT 3.....	173,784	162,884
168 MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO.....	80,709	73,709
169 JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT AND DEMO.....	2,005	2,005
170 DDG-1000.....	112,576	112,576
174 ISR & INFO OPERATIONS.....	136,140	136,140
175 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	26,318	23,768
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	5,910,089	5,575,543
MANAGEMENT SUPPORT		
176 THREAT SIMULATOR DEVELOPMENT.....	20,862	57,962
177 TARGET SYSTEMS DEVELOPMENT.....	12,113	20,113
178 MAJOR T&E INVESTMENT.....	84,617	105,617
179 STUDIES AND ANALYSIS SUPPORT - NAVY.....	3,108	3,108
180 CENTER FOR NAVAL ANALYSES.....	38,590	38,590
183 TECHNICAL INFORMATION SERVICES.....	934	934
184 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT.....	93,966	108,966
185 STRATEGIC TECHNICAL SUPPORT.....	3,538	3,538
186 RDT&E SHIP AND AIRCRAFT SUPPORT.....	135,149	135,149
187 TEST AND EVALUATION SUPPORT.....	429,277	446,277
188 OPERATIONAL TEST AND EVALUATION CAPABILITY.....	24,872	24,872
189 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT.....	17,653	17,653
190 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT.....	8,065	8,065
191 MARINE CORPS PROGRAM WIDE SUPPORT.....	47,042	43,524
192 MANAGEMENT HEADQUARTERS - R&D.....	35,614	35,614
193 WARFARE INNOVATION MANAGEMENT.....	38,958	38,958
194 INSIDER THREAT.....	2,581	2,581
MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES).....	1,747	1,747
TOTAL, RDT&E MANAGEMENT SUPPORT.....	998,686	1,093,268
OPERATIONAL SYSTEMS DEVELOPMENT		
199 F-35 C2D2.....	515,746	515,746
200 F-35 C2D2.....	481,962	481,962
201 MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS (MARFORRES).....	65,381	61,381
202 COOPERATIVE ENGAGEMENT CAPABILITY (CEC).....	176,486	162,676

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
203 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT.....	177,098	186,998
204 SSBN SECURITY TECHNOLOGY PROGRAM.....	45,775	45,775
205 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT.....	64,752	59,752
206 NAVY STRATEGIC COMMUNICATIONS.....	35,451	35,451
207 F/A-18 SQUADRONS.....	189,224	219,224
208 SURFACE SUPPORT.....	13,733	13,733
209 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC) ..	132,181	132,181
210 INTEGRATED SURVEILLANCE SYSTEM.....	84,276	84,276
211 SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS.....	6,261	6,261
212 AMPHIBIOUS TACTICAL SUPPORT UNITS.....	1,657	1,657
213 GROUND/AIR TASK ORIENTED RADAR.....	21,367	45,367
214 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT.....	56,741	52,741
215 ELECTRONIC WARFARE (EW) READINESS SUPPORT.....	62,006	55,528
216 HARM IMPROVEMENT.....	133,520	138,520
217 SURFACE ASW COMBAT SYSTEM INTEGRATION.....	28,804	28,804
218 MK-48 ADCAP.....	114,492	100,759
219 AVIATION IMPROVEMENTS.....	132,486	144,621
220 OPERATIONAL NUCLEAR POWER SYSTEMS.....	113,760	113,760
221 MARINE CORPS COMMUNICATIONS SYSTEMS.....	89,897	108,897
222 COMMON AVIATION COMMAND AND CONTROL SYSTEM.....	9,324	12,869
223 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS....	108,235	103,810
224 MARINE CORPS COMBAT SERVICES SUPPORT.....	13,185	21,185
225 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)....	37,695	37,695
226 AMPHIBIOUS ASSAULT VEHICLE.....	7,551	7,551
227 TACTICAL AIM MISSILES.....	23,881	23,881
228 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	32,564	32,564
229 PLANNING AND DECISION AID SYSTEM (PDAS).....	3,101	3,101
234 AFLOAT NETWORKS.....	30,890	36,890
235 INFORMATION SYSTEMS SECURITY PROGRAM.....	33,311	33,311
236 JOINT MILITARY INTELLIGENCE PROGRAMS.....	7,514	7,514
237 TACTICAL UNMANNED AERIAL VEHICLES.....	9,837	9,837
238 UAS INTEGRATION AND INTEROPERABILITY.....	9,797	5,000
239 DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS.....	38,800	29,749
240 MQ-4C TRITON.....	13,029	13,029
241 MQ-8 UAV.....	26,543	33,543

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
242 RQ-11 UAV.....	533	533
243 SMALL (LEVEL 0) TACTICAL UAS (STUASLO).....	1,772	1,772
245 MULTI-INTELLIGENCE SENSOR DEVELOPMENT.....	59,252	59,252
246 UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP).....	9,274	9,274
247 CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	36,378	36,378
248 RQ-4 MODERNIZATION.....	134,323	134,323
249 INTELLIGENCE MISSION DATA (IMD).....	907	907
250 MODELING AND SIMULATION SUPPORT.....	9,772	9,772
251 DEPOT MAINTENANCE (NON-IF).....	36,880	50,030
252 MARITIME TECHNOLOGY (MARITECH).....	3,329	6,329
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	3,440,733	3,516,169
9999 CLASSIFIED PROGRAMS.....	1,872,586	2,093,876
254 RISK MANAGEMENT INFORMATION - SOFTWARE PILOT PROGRAM..	13,703	13,703
NAVY NEXT GENERATION ENTERPRISE NETWORK (NGEN) -		
255 SOFTWARE PILOT PROGRAM.....	955,151	---
MARITIME TACTICAL COMMAND AND CONTROL (MTC2) -		
256 SOFTWARE PILOT PROGRAM.....	14,855	14,855
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY.....	22,639,362	22,139,080

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 UNIVERSITY RESEARCH INITIATIVES	117,448	174,898
Program increase - university research initiatives		10,000
Program increase - defense university research instrumentation program		35,000
Project increase - coastal adaptation research for improved coastal community and NWS Earle military installation resilience		450
Program increase - biocoherent energy transfer research		4,000
Program increase - Navy aircraft fleet readiness and sustainment		8,000
3 DEFENSE RESEARCH SCIENCES	484,421	523,421
Program increase - silicon-germanium-tin alloy research		5,000
Program increase - bio-inspired engineering and design for naval applications		3,000
Program increase - generally-capable robotics for naval operations		4,000
Program increase - multifunctional structural batteries		2,000
Program increase - basic research		25,000
4 POWER PROJECTION APPLIED RESEARCH	23,013	43,013
Program increase - manufacturing of high temperature hypersonic materials		8,000
Program increase - miniaturization of lasers		4,000
Program increase - multi-mission UAV-borne electronic attack		8,000
5 FORCE PROTECTION APPLIED RESEARCH	122,888	222,388
Program increase - direct air capture and blue carbon removal technology		10,000
Program increase - talent and technology for Navy power and energy systems		10,500
Program increase - advanced energetics research		3,000
Program increase - coastal environmental research		5,000
Program increase - relative positioning of autonomous platforms		3,000
Program increase - additive manufacturing of unmanned maritime systems		6,000
Program increase - bonded metal matrix composite repair		5,000
Program increase - energy resilience		7,000
Program increase - Navy alternative energy research		27,500
Program increase - resilient innovative sustainable economies via university partnerships		7,500
Program increase - titanium metal and wire domestic production demonstration		15,000
6 MARINE CORPS LANDING FORCE TECHNOLOGY	51,112	64,112
Program increase - unmanned logistics solutions		7,500
Program increase - 5G biometric installation access control demonstration		4,000
Program increase - Marine Corps asset life-cycle management		1,500

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R-1	Budget Request	Final Bill
8 WARFIGHTER SUSTAINMENT APPLIED RESEARCH	70,547	117,738
Biocentric technologies previously funded		-1,059
Program increase - health and safety research of underground fuel storage facilities		5,000
Program increase - advanced nanocomposite coatings		6,000
Program increase - anticorrosion nanotechnology		7,500
Program increase - development of chromate-free corrosion inhibitor coatings for marine applications		1,750
Program increase - engineered systems to preserve and restore hearing		5,000
Program increase - human digital twin		3,000
Program increase - hypersonics materials acceleration		5,000
Program increase - polymer coatings for reduced ice and fouling adhesion		5,000
Program increase - high mobility ground robots to assist dismounted infantry in urban operations		5,000
Program increase - physics based neutralization of threats to human tissues and organs		5,000
9 ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	85,157	91,157
Program increase - dark swarm in degraded environments		6,000
10 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	70,086	103,586
Program increase - task force ocean		10,000
Program increase - climate change hydraulic modeling risk analysis		1,500
Program increase - continuous distributed sensing systems		5,000
Program increase - research vessel cyber infrastructure improvements		4,000
Program increase - ocean acoustics		8,000
Program increase - operational demonstrations of commercially available, long endurance USV		5,000
12 UNDERSEA WARFARE APPLIED RESEARCH	57,484	107,734
Program increase - academic partnerships for innovative submarine and undersea vehicle research		25,000
Program increase - energetics global awareness		2,000
Program increase - undersea sensing and communications		4,000
Program increase - bomb technicians training innovations		2,250
Program increase - persistent maritime surveillance		10,000
Program increase - resident autonomous undersea robotics		7,000
13 FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	173,356	198,233
Ocean battlespace sensing early prototyping		-2,123
Program increase - improved detection of submarine threats		5,000
Program increase - long endurance, autonomous, mobile acoustic detection systems		22,000
14 MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	32,160	42,160
Program increase - human fusions tech for EOD robot applications		10,000
15 INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH	152,976	155,976
Program increase - accelerate proliferated LEO narrowband capability		3,000

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R-1	Budget Request	Final Bill
17 FORCE PROTECTION ADVANCED TECHNOLOGY	21,661	36,161
Program increase - power electronics building block		6,000
Program increase - carbon nanotube energy storage flywheel		4,000
Program increase - laser peening of jet engines		4,500
18 ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	8,146	12,146
Program increase - advanced machine learning and artificial intelligence		4,000
19 USMC ADVANCED TECHNOLOGY DEMONSTRATION	224,155	291,791
Command, control, communications, computers failure to comply with congressional direction		-3,859
Force protection previously funded		-1,605
Program increase - expeditionary process, exploitation and dissemination		4,000
Program increase - advanced mission planning system SBIR technology insertion		5,000
Program increase - data analysis and sharing augmentation		2,000
Program increase - low-cost attritable aircraft technology		25,000
Program increase - adaptive future force		8,000
Program increase - AI-powered tactical ISR		5,100
Program increase - expeditionary mission support		10,000
Program increase - platform agnostic weapons system		5,000
Program increase - stand-off security inspection and surveillance system		9,000
21 FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEVELOPMENT	265,299	282,237
Information warfare excess growth		-4,594
Surface warfare excess growth		-3,114
Undersea warfare excess growth		-3,354
Program increase - advanced energetics research		3,000
Program increase - advanced lidar sensor and data processing		2,000
Program increase - electronic maneuver warfare unmanned sensors		14,000
Program increase - advanced machine learning and artificial intelligence		9,000
22 MANUFACTURING TECHNOLOGY PROGRAM	57,236	77,236
Program increase - energetics processing		5,000
Program increase - chemical reactor and crystallizer technology		15,000
23 WARFIGHTER PROTECTION ADVANCED TECH	4,935	40,435
Program increase - bone marrow registry program		26,500
Program increase - warfighter resilience and readiness		4,000
Program increase - dynamic modular manufacturing		5,000
24 NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	47,167	60,167
Program increase - naval tech bridges		5,000
Program increase - ONR-Scout		8,000

118K

R-1	Budget Request	Final Bill
26 INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY DEVELOPMENT	133,779	156,613
Manufacture of autonomous systems at scale concurrency		-2,491
Deployment and employment of autonomous long-range systems concurrency		-3,986
Manned and autonomous teams concurrency		-2,989
Program increase - high speed laser cooling systems		6,000
Program increase - energetics renaissance		10,000
Program increase - advanced ATRT SBIR enterprise capabilities		16,300
27 UNMANNED AERIAL SYSTEM	16,879	16,167
Test funds early to need		-712
28 LARGE UNMANNED SURFACE VEHICLES (LUSV)	144,846	102,846
LUSV integrated combat system early to need		-42,000
30 AVIATION SURVIVABILITY	16,815	24,815
Program increase - context-based augmented reality identification framework		8,000
33 ASW SYSTEMS DEVELOPMENT	17,612	20,612
Program increase - innovative AWS technologies		3,000
35 ADVANCED COMBAT SYSTEMS TECHNOLOGY	32,310	35,310
Program increase - Minotaur data dissemination and interoperability		3,000
36 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	58,013	53,391
Barracuda schedule delays		-4,622
37 SURFACE SHIP TORPEDO DEFENSE	1,862	8,862
Program increase - SLQ-25 capability improvements		3,000
Program increase - surface ship torpedo defense towed decoys		4,000
46 SHIP CONCEPT ADVANCED DESIGN	111,590	126,618
Project 3376 sealift concept development previously funded		-402
Next generation medium logistics ship industry studies and design contract award delay		-1,000
Next generation medium logistics ship special studies excess to need		-2,500
Project 4045 prior year execution baseline adjustment		-3,070
Program increase - metallic additive manufacturing		5,000
Program increase - critical protection technology for cybersecurity engineering		7,000
Program increase - polymorphic build farm for open source technologies		10,000
47 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	106,957	40,787
Project 0411 design and analysis and program management growth early to need		-71,170
Program increase - preliminary ship design of next-gen hospital ship		5,000

118 L

R-1	Budget Request	Final Bill
49 ADVANCED SURFACE MACHINERY SYSTEMS	78,122	76,922
Project 2471 power and energy systems product development prior year carryover		-500
Project 2471 DDG(X) power and propulsion risk mitigation and demonstration excess to need		-12,700
Program increase - silicon carbide power modules		10,000
Program increase - solid state circuit breaker development		2,000
51 LITTORAL COMBAT SHIP	84,924	82,518
Historical underexecution		-2,406
53 OHIO REPLACEMENT	296,231	311,231
Program increase - Columbia digital environment		5,000
Program increase - rapid composites for wet submarine application		10,000
55 AUTOMATED TEST AND RE-TEST (ATRT)	7,805	37,805
Program increase		30,000
56 FRIGATE DEVELOPMENT	109,459	100,203
Test and evaluation delays		-4,256
FORGE software factory acquisition strategy		-5,000
58 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	77,065	66,565
Armored reconnaissance vehicle GFE excess to need		-4,400
ARV change to Marine Corps acquisition strategy		-6,100
62 NAVY ENERGY PROGRAM	33,824	57,824
Battery development and safety unjustified request		-1,500
Program increase - Navy energy program		15,000
Program increase - marine energy systems for sensors and microgrids		10,500
67 LINK PLUMERIA	692,280	663,780
Classified adjustment		-28,500
69 LINK EVERGREEN	221,253	264,453
Classified adjustment		43,200
73 JOINT NON-LETHAL WEAPONS TESTING	29,589	28,168
Vessel stopping prototype schedule delays		-1,421
74 JOINT PRECISION APPROACH AND LANDING SYSTEMS - DEM/VAL	24,450	22,950
LANTERNS concurrency		-1,500
78 SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES	84,676	79,947
Project 2482 lionfish test assets excess to need		-4,729
79 UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	59,299	66,137
Project 3393 RAIL software factory acquisition strategy		-3,162
Program increase - clandestine mine neutralization technologies		10,000

118M

R-1	Budget Request	Final Bill
81 LARGE UNMANNED UNDERSEA VEHICLES	88,063	66,651
Phase 2 contract award delay		-21,412
83 LITTORAL AIRBORNE MCM	18,669	18,669
Project 2131 transfer COBRA Block II to Block I upgrades only		-7,626
Project 2131 transfer from COBRA Block II to Block 1 upgrades only		7,626
84 SURFACE MINE COUNTERMEASURES	13,655	12,507
Project 1235 product development previously funded		-1,148
86 NEXT GENERATION LOGISTICS	1,071	8,071
Program increase - hydrogen fuel cell technology		2,000
Program increase - predictive maintenance for Navy and Marine Corps weapons systems		5,000
87 FUTURE VERTICAL LIFT (MARITIME STRIKE)	9,825	8,274
Contract award delay		-1,551
88 RAPID TECHNOLOGY CAPABILITY PROTOTYPE	6,555	11,555
Program increase - rapid technology capability prototyping		5,000
90 ADVANCED UNDERSEA PROTOTYPING	58,473	31,668
Test and evaluation excess to need		-10,707
ORCA payload capacity increase		-8,908
Development and testing of universal payload module		-7,190
92 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	97,944	90,694
Miniature air launched decoy delays		-12,250
Advanced aerial refueling system test and evaluation early to need		-1,000
Program increase - neutron radiography techniques for energetic devices		6,000
94 OFFENSIVE ANTI-SURFACE WARFARE WEAPON	127,756	70,792
Project 3343 lack of program justification		-56,964
96 UNMANNED SURFACE VEHICLE ENABLING CAPABILITIES	170,838	120,138
USV machinery qualification unjustified request		-25,000
Unmanned communications excess growth		-15,200
Elevated sensors excess growth		-5,500
RAIL software factory acquisition strategy		-5,000
99 CONVENTIONAL PROMPT STRIKE (CPS)	1,372,340	1,324,051
Virginia class submarine integration early to need		-31,050
Industrial base capacity expansion funding early to need		-22,239
Program increase - cross-service hypersonic testing capabilities through advanced concepts technology evaluation		5,000

118N

R-1	Budget Request	Final Bill
101 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM	16,204	36,204
MUX studies, analysis, and concept refinement unjustified growth		-2,000
Program increase - K-max unmanned logistics system		7,000
Program increase - mobile unmanned/manned distributed lethality		
airborne network joint capability technology demonstration		5,000
Program increase - group 3 advanced autonomous systems		5,000
Program increase - MQ-9 multi-mode radar pod		5,000
104 OTHER HELO DEVELOPMENT	56,444	49,312
Attack and utility replacement aircraft excess studies and analysis		-7,132
107 MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	46,418	54,418
Program increase - MH-60 capability upgrades		8,000
109 WARFARE SUPPORT SYSTEM	10,167	13,167
Program increase - operational deployment of diesel-fueled		
outboard marine motors		3,000
111 ADVANCED HAWKEYE	386,860	348,360
DSCC6 excess growth		-40,000
Non-DSSC efforts unjustified growth except test asset viability		-18,500
Program increase - radar modernization and testing		20,000
113 ACOUSTIC SEARCH SENSORS	46,066	49,057
Studies and analysis delays		-2,009
Program increase - sonobuoy capabilities research		5,000
114 V-22A	107,984	105,729
Project 3090 flight control system redesign contract award delay		-6,505
Program increase - V-22 oil coolers		4,250
115 AIR CREW SYSTEMS DEVELOPMENT	22,746	20,746
Enhanced visual acuity schedule delays		-2,000
116 EA-18	68,425	59,674
Historical underexecution		-8,751
117 ELECTRONIC WARFARE DEVELOPMENT	139,535	136,593
Dual band decoy previously funded		-2,942
118 EXECUTIVE HELO DEVELOPMENT	45,932	41,847
VH-92A improvements test and evaluation delay		-4,085
119 NEXT GENERATION JAMMER (NGJ)	243,923	235,407
Test and evaluation delays		-8,516
121 NEXT GENERATION JAMMER (NGJ) INCREMENT II	248,096	146,596
Program delay		-101,500

1180

R-1	Budget Request	Final Bill
122 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	371,575	331,820
Aegis capability build 2023 previously funded		-1,764
Baseline program adjustment		-23,711
FORGE software factory acquisition strategy		-14,280
124 SMALL DIAMETER BOMB (SDB)	46,769	40,852
BRU-61 contract delay		-5,917
127 NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR SYSTEMS ENGINEERING	46,121	50,233
Historical underexecution		-2,388
Program increase - stratospheric balloons		6,500
128 ADVANCED SENSORS APPLICATION PROGRAM (ASAP)	0	10,000
Program increase		10,000
129 ADVANCED ABOVE WATER SENSORS	77,852	62,185
Shipboard passive electro-optical infrared development excess to need		-15,667
134 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	96,556	87,520
Engineering changes/capability enhancements and backfit delays		-9,036
136 NEW DESIGN SSN	503,252	486,938
Payload NRE excess to need		-16,314
140 MINE DEVELOPMENT	76,027	37,944
Encapsulated effector contract delays		-19,363
Project 0267 - Quickstrike-ER contract award delays		-18,720
146 SHIP SELF DEFENSE (DETECT & CONTROL)	149,433	142,595
Historical underexecution		-1,838
FORGE software factory acquisition strategy		-5,000
147 SHIP SELF DEFENSE (ENGAGE: HARD KILL)	87,862	107,488
Project 0173 MK9 CWTI replacement delay		-3,374
Program increase - ALAMO block 1 projectile		23,000
148 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	69,006	65,460
Project 3068 concurrency		-3,546
150 MEDICAL DEVELOPMENT	3,967	31,467
Program increase - autonomous aerial technology for distributed logistics		7,500
Program increase - wound care research		10,000
Program increase - military dental research		10,000
151 NAVIGATION/ID SYSTEM	48,837	50,037
Program increase - Navy micro interrogator		1,200

118 P

R-1	Budget Request	Final Bill
156 INFORMATION TECHNOLOGY DEVELOPMENT	243,828	271,085
Navy shore manpower requirements determination unjustified request		-2,958
Electronic procurement system delays		-3,936
Transfer from line 255		2,151
Program increase - aviation innovative cyber solutions		9,000
Program increase - cyber solutions in classified environments		6,000
Program increase - warfare mission analysis in cyber contested environment		5,000
Program increase - product lifecycle management for naval aviation		2,000
Program increase - actionable analytics for reliable maintenance		4,000
Program increase - advanced shipyard technologies		6,000
158 TACAMO MODERNIZATION	150,592	50,592
Air vehicle lack of full funding		-60,100
New start delays		-39,900
164 UNMANNED CARRIER AVIATION (UCA)	268,937	261,992
ESA excess to need		-4,695
Training development early to need		-2,250
167 MULTI-MISSION MARITIME (MMA) INCREMENT III	173,784	162,884
ECP 6 unjustified growth		-10,900
168 MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT & DEMONSTRATION	80,709	73,709
System design and development excess growth		-7,000
175 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	26,318	23,768
Historical underexecution		-2,550
176 THREAT SIMULATOR DEVELOPMENT	20,862	57,962
Program increase - C-band and S-band emulator upgrade for test infrastructure		37,100
177 TARGET SYSTEMS DEVELOPMENT	12,113	20,113
Program increase - lab and test range upgrades - targets		8,000
178 MAJOR T&E INVESTMENT	84,617	105,617
Program increase - cargo drone family of advanced batteries		9,000
Program increase - lab and test range upgrades - targets		12,000
184 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	93,966	108,966
Program increase - consortium for additive manufacturing research and education		15,000
187 TEST AND EVALUATION SUPPORT	429,277	446,277
Program increase - future workforce innovation		1,000
Program increase - lab and test range upgrades - targets		16,000
191 MARINE CORPS PROGRAM WIDE SUPPORT	47,042	43,524
Project 3009 excess growth		-3,518

118 Q

R-1	Budget Request	Final Bill
201 MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS (MARFORRES)	65,381	61,381
Project 2278 MADIS Inc 2 early to need		-4,000
202 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	176,486	162,676
FIRECAP new start phasing		-5,007
ELEKTRA excess growth		-8,803
203 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	177,098	186,998
D5LE2 integration and test early to need		-2,100
D5LE2 growth without acquisition strategy		-20,000
Program increase - next generation strategic inertial measurement unit		6,000
Program increase - autonomous fiber optic sensing network		5,000
Program increase - scalable very high temperature composite manufacturing		6,000
Program increase - strategic weapons systems shipboard navigation system modernization		15,000
205 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	64,752	59,752
Compact rapid attack weapon concurrency		-5,000
207 F/A-18 SQUADRONS	189,224	219,224
Program increase - civil instrument landing system		3,000
Program increase - noise reduction research		4,000
Program increase - solid state light-off detector		8,000
Program increase - neural network algorithms on advanced processors		5,000
Program increase - training technology		10,000
213 GROUND/AIR TASK ORIENTED RADAR (G/ATOR)	21,367	45,367
Program increase - AN/TPS-80 G/ATOR naval integrated fire control		12,000
Program increase - AN/TPS-80 G/ATOR radar signal processor refresh		12,000
214 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	56,741	52,741
Fleet training wholeness prior year carryover		-2,000
CIAT to SEA prior year carryover		-2,000
215 ELECTRONIC WARFARE (EW) READINESS SUPPORT	62,006	55,528
Project 3426 unjustified growth		-6,478
216 ANTI-RADIATION MISSILE IMPROVEMENT	133,520	138,520
Program increase - Advanced Anti-Radiation Guided Missile (AARGM) and the Extended Range (ER)		5,000
218 MK-48 ADCAP	114,492	100,759
ABP 7 phasing new start		-2,708
TI-2 phasing new start		-11,025
219 AVIATION IMPROVEMENTS	132,486	144,621
Historical underexecution		-4,865
Program increase - additive manufacturing for metals affordability		7,000
Program increase - FOD mitigation integration		10,000

118R

R-1	Budget Request	Final Bill
221 MARINE CORPS COMMUNICATIONS SYSTEMS	89,897	108,897
Project 3772 SIGMAN unjustified request		-1,000
Program increase - multi-function electronic warfare		20,000
222 COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S)	9,324	12,869
Program increase - common aviation command and control system naval integrated fire control		3,545
223 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	108,235	103,810
Project 2315 force on force training systems unjustified growth		-3,354
Project 2503 family of expeditionary fuel systems delay		-1,071
224 MARINE CORPS COMBAT SERVICES SUPPORT	13,185	21,185
Program increase - field-based airborne power generation systems		8,000
234 AFLOAT NETWORKS	30,890	36,890
Program increase - kubernetes-based geospatial analytics and visualization		6,000
238 UAS INTEGRATION AND INTEROPERABILITY	9,797	5,000
Excess to need		-4,797
239 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	38,800	29,749
DCGS-MC GEOINT concurrency		-3,016
DCGS-MC all-source concurrency		-6,035
241 MQ-8 UAV	26,543	33,543
Program increase - data bus cybersecurity		7,000
251 DEPOT MAINTENANCE (NON-IF)	36,880	50,030
EA-18G SLAP previously funded		-1,850
Program increase - high pressure cold spray		10,000
Program increase - joint enterprise data interoperability for F-35 depots		5,000
252 MARITIME TECHNOLOGY (MARITECH)	3,329	6,329
Program increase - maritime technology to mitigate IoT/ICS security vulnerabilities		3,000
999 CLASSIFIED PROGRAMS	1,872,586	2,093,876
Classified adjustment		221,290
255 NAVY NEXT GENERATION ENTERPRISE NETWORK (NGEN) - SOFTWARE PILOT PROGRAM	955,151	0
Transfer to OM,N line BSIT		-778,000
Transfer to OP,N line 141		-175,000
Transfer to line 156		-2,151

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SOFTWARE FACTORIES

The fiscal year 2022 President's budget request includes \$72,760,000 to establish no less than three "software factories" that would provide a software pipeline for continuous development, integration, deployment, and upgrades of software into multiple unmanned and manned undersea and surface Navy programs. It is believed that establishing such a capability is necessary. However, the lack of coordination and potential for duplication of efforts among various elements of the Navy's acquisition enterprise, as well as the Navy's apparent over-reliance on commercial industry for certain oversight and program management functions, is concerning.

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

SELF-DEFENSE TEST SHIP

The fiscal year 2022 President's budget request includes \$15,061,000 in program element 0605863N primarily to operate and maintain the Ex-PAUL F. FOSTER, the Navy's Self-Defense Test Ship (SDTS). It is noted that the Navy has operated a SDTS since 1996 to conduct operationally realistic testing that is otherwise prohibited on manned ships. Further, it is understood that the current SDTS is projected to no longer be in a ready state beyond fiscal year 2025, and that the Navy is evaluating several courses

of action to meet the requirement for an SDTS going forward, including the conversion of a decommissioned Navy asset. The Director of Navy Innovation, Technology Requirements, and Test and Evaluation is directed to submit to the congressional defense committees, with submission of the fiscal year 2023 President's budget request, the Navy's strategy for the SDTS beyond fiscal year 2025, to include an evaluation of different courses of action under consideration and their associated funding requirements by fiscal year across the future years defense program.

Further, the Director of Operational Test and Evaluation (DOTE) is directed to provide DOTE's assessment of the Navy's strategy with respect to impacts on approved Test and Evaluation Master Plans and test strategies for Navy acquisition program to the congressional defense committees not later than 30 days after submission of the fiscal year 2023 President's budget request.

LARGE DISPLACEMENT UNMANNED UNDERSEA VEHICLE

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

EXTRA LARGE UNMANNED UNDERSEA VEHICLE

The fiscal year 2022 President's budget request includes \$58,173,000 to continue manufacturing and testing of five Extra Large Unmanned Undersea Vehicles (XLUUV). With submission of the budget request, the Navy informed the congressional defense committees of schedule delays of no less than two fiscal quarters in addition to an 18-month delay revealed with the fiscal year 2021 President's budget request. Further, the Navy notified that the program is being restructured. It is concerning therefore, that, with the fiscal year 2022 request, the Navy requested funds for additional XLUUV requirements such as an increased payload capacity and a new payload module, when the baseline program is performing poorly. The agreement includes no funds to increase payload capacity or for the universal payload in fiscal year 2022, a reduction of \$8,908,000 and \$7,190,000 to the request, respectively.

It is noted that the XLUUV program was awarded in response to a Joint Emergent Operational Need using rapid acquisition authorities. Given the urgency of the requirement, the Navy's analytical and engineering rigor conducted prior to program initiation is questioned. The Comptroller General is directed to review the Navy's adherence to acquisition best practices for the XLUUV program, as adapted for rapid acquisition programs, and report to the congressional defense committees not later than 90 days after enactment of this Act.

BASING OF UNMANNED UNDERSEA VEHICLES

The Secretary of the Navy is directed to provide to the congressional defense committees, with submission of the fiscal year 2023 President's budget request, a report detailing the Navy's plans for basing Navy unmanned undersea vehicles (UUVs), to include the infrastructure, personnel, and logistical requirements for testing, evaluation, docking, and maintenance of UUVs.

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.

ACADEMIC PARTNERSHIPS FOR INNOVATIVE SUBMARINE AND UNDERSEA VEHICLE RESEARCH

The agreement includes \$25,000,000 to build stronger partnerships between Navy research labs, warfighters, academia, and industry. The Assistant Secretary of the Navy (Research, Development and Acquisition) is directed to coordinate this effort with the Navy's industrial base partners to ensure that funded academic research projects are relevant to specific research, engineering, and manufacturing needs, as well as defined systems capabilities. The Assistant Secretary of the Navy (Research, Development, and Acquisition) is further directed to ensure that partnerships with academia focus on the specific submarine and autonomous undersea vehicle research needs, undersea technology acceleration and transition, and workforce development to ensure a sustainable undersea industrial base. Projects funded under this initiative should also focus on leveraging investments across the public and private sectors in dual use technology areas through collaborative efforts aligning the undersea ecosystem.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

The agreement provides \$41,592,913,000 for Research, Development, Test and Evaluation, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

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~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE			
1	BASIC RESEARCH DEFENSE RESEARCH SCIENCES.....	328,303	353,303
2	UNIVERSITY RESEARCH INITIATIVES.....	162,403	187,403
	TOTAL, BASIC RESEARCH.....	490,706	540,706
APPLIED RESEARCH			
4	FUTURE AF CAPABILITIES APPLIED RESEARCH.....	79,901	79,901
5	MATERIALS.....	113,460	220,960
6	AEROSPACE VEHICLE TECHNOLOGIES.....	163,032	183,032
7	HUMAN EFFECTIVENESS APPLIED RESEARCH.....	136,273	156,863
8	AEROSPACE PROPULSION.....	174,683	190,683
9	AEROSPACE SENSORS.....	193,514	255,918
11	SCIENCE AND TECHNOLOGY MANAGEMENT - MAJOR HEADQUARTERS	8,891	8,891
12	CONVENTIONAL MUNITIONS.....	151,757	151,757
13	DIRECTED ENERGY TECHNOLOGY.....	121,869	116,456
14	DOMINANT INFORMATION SCIENCES AND METHODS.....	169,110	221,110
	TOTAL, APPLIED RESEARCH.....	1,312,490	1,585,571
ADVANCED TECHNOLOGY DEVELOPMENT			
17	FUTURE AF INTEGRATED TECHNOLOGY DEMOS.....	131,643	112,643
18	ADVANCED MATERIALS FOR WEAPON SYSTEMS.....	31,905	63,378
19	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T).....	21,057	19,112
20	ADVANCED AEROSPACE SENSORS.....	44,730	53,750
21	AEROSPACE TECHNOLOGY DEV/DEMO.....	70,486	105,486
22	AEROSPACE PROPULSION AND POWER TECHNOLOGY.....	75,273	110,273
23	ELECTRONIC COMBAT TECHNOLOGY.....	46,591	44,938
26	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT...	24,589	23,459
27	CONVENTIONAL WEAPONS TECHNOLOGY.....	157,423	155,306
28	ADVANCED WEAPONS TECHNOLOGY.....	28,258	31,855
29	MANUFACTURING TECHNOLOGY PROGRAM.....	45,259	176,200
30	BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION.....	56,772	72,138
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	733,986	968,538

123A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
31 ADVANCED COMPONENT DEVELOPMENT INTELLIGENCE ADVANCED DEVELOPMENT.....	5,795	5,795
32 COMBAT IDENTIFICATION TECHNOLOGY.....	21,939	21,939
33 NATO RESEARCH AND DEVELOPMENT.....	4,114	4,114
34 INTERCONTINENTAL BALLISTIC MISSILE - DEM/VAL.....	49,621	76,621
36 NC3 ADVANCED CONCEPTS.....	6,900	6,900
37 AIR FORCE WEATHER SERVICES RESEARCH.....	986	3,855
38 ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS).....	203,849	268,849
39 ADVANCED ENGINE DEVELOPMENT.....	123,712	583,712
40 ARCHITECTURE INITIATIVES.....	82,438	25,138
41 LONG RANGE STRIKE.....	2,872,624	2,872,624
42 DIRECTED ENERGY PROTOTYPING.....	10,820	15,820
43 HYPERSONICS PROTOTYPING.....	438,378	---
43A HYPERSONICS PROTOTYPING - AIR LAUNCHED RAPID RESPONSE WEAPON (ARRW).....	---	318,687
43B HYPERSONICS PROTOTYPING - HYPERSONIC ATTACK CRUISE MISSILE (HACM).....	---	190,116
44 PNT RESILIENCY, MODS AND IMPROVEMENTS.....	39,742	39,742
45 ADVANCED TECHNOLOGY AND SENSORS.....	23,745	23,745
46 SURVIVABLE AIRBORNE OPERATIONS CENTER.....	133,253	95,788
47 TECHNOLOGY TRANSFER.....	15,768	56,768
48 HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM.....	15,886	12,886
49 CYBER RESILIENCY OF WEAPON SYSTEMS-ACS.....	71,229	71,229
50 DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D.....	40,103	40,103
51 TECH TRANSITION PROGRAM.....	343,545	369,045
51A OPERATIONAL ENERGY AND INSTALLATION RESILIENCE.....	---	104,000
52 GROUND BASED STRATEGIC DETERRENT.....	2,553,541	2,553,541
54 NEXT GENERATION AIR DOMINANCE.....	1,524,667	1,524,667
56 AIRBASE AIR DEFENSE SYSTEMS (ABADS).....	10,905	10,905
57 WAR RESERVE MATERIEL - AMMUNITION.....	3,943	3,943
59 COMMON DATA LINK EXECUTIVE AGENT (CDL EA).....	43,881	43,881
61 MISSION PARTNER ENVIRONMENTS.....	16,420	16,420
62 CYBER OPERATIONS TECHNOLOGY SUPPORT.....	242,499	242,499
63 ENABLED CYBER ACTIVITIES.....	16,578	16,578
65 RAPID SUSTAINMENT MODERNIZATION (RSM).....	---	55,000

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
66 CONTRACTING INFORMATION TECHNOLOGY SYSTEM.....	20,343	20,343
TOTAL, ADVANCED COMPONENT DEVELOPMENT.....	8,937,224	9,695,253
SYSTEM DEVELOPMENT & DEMONSTRATION		
78 FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS.....	23,499	18,499
79 PNT RESILIENCY, MODS AND IMPROVEMENTS.....	167,520	163,520
80 NUCLEAR WEAPONS SUPPORT.....	30,050	30,050
81 ELECTRONIC WARFARE DEVELOPMENT.....	2,110	7,110
82 TACTICAL DATA NETWORKS ENTERPRISE.....	169,836	159,836
83 PHYSICAL SECURITY EQUIPMENT.....	8,469	8,469
85 ARMAMENT/ORDNANCE DEVELOPMENT.....	9,047	9,047
86 SUBMUNITIONS.....	2,954	2,954
87 AGILE COMBAT SUPPORT.....	16,603	27,938
89 LIFE SUPPORT SYSTEMS.....	25,437	25,437
90 COMBAT TRAINING RANGES.....	23,980	23,980
92 LONG RANGE STANDOFF WEAPON.....	609,042	599,042
93 ICBM FUZE MODERNIZATION.....	129,709	129,709
95 OPEN ARCHITECTURE MANAGEMENT.....	37,109	37,109
96 KC-46.....	1	---
97 ADVANCED PILOT TRAINING.....	188,898	188,898
98 COMBAT RESCUE HELICOPTER HH-60W.....	66,355	62,255
101 F-15 EPAWSS.....	112,012	112,012
102 STAND IN ATTACK WEAPON.....	166,570	166,570
103 FULL COMBAT MISSION TRAINING.....	7,064	12,064
105 KC-46A TANKER SQUADRONS.....	73,458	66,758
107 VC-25B.....	680,665	655,665
108 AUTOMATED TEST SYSTEMS.....	15,445	15,445
109 TRAINING DEVELOPMENTS.....	4,482	2,482
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	2,570,315	2,524,849
MANAGEMENT SUPPORT		
124 THREAT SIMULATOR DEVELOPMENT.....	41,909	46,909
125 MAJOR T&E INVESTMENT.....	130,766	130,766
126 RAND PROJECT AIR FORCE.....	36,017	36,017
128 INITIAL OPERATIONAL TEST & EVALUATION.....	12,582	12,582
129 TEST AND EVALUATION SUPPORT.....	811,032	811,032

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
131 ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS.....	243,796	267,919
132 ACQ WORKFORCE- GLOBAL REACH.....	435,930	429,659
133 ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS.....	435,274	439,571
135 ACQ WORKFORCE- CAPABILITY INTEGRATION.....	243,806	263,014
136 ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY.....	103,041	62,755
137 ACQ WORKFORCE- NUCLEAR SYSTEMS.....	226,055	227,425
138 MANAGEMENT HQ - R&D.....	4,079	5,537
139 FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL..	70,788	70,788
140 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT..	30,057	30,057
141 REQUIREMENTS ANALYSIS AND MATURATION.....	85,799	90,799
142 MANAGEMENT HQ - T&E.....	6,163	6,163
143 SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES...	537	537
144 COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS (C4) - STRATCOM.....	25,340	35,340
145 ENTERPRISE INFORMATION SERVICES (EIS).....	28,720	26,720
146 ACQUISITION AND MANAGEMENT SUPPORT.....	37,211	37,211
147 GENERAL SKILL TRAINING.....	1,506	1,506
148 TRAINING DEVELOPMENTS.....	2,957	2,957
150 INTERNATIONAL ACTIVITIES.....	2,420	2,420
156 SPACE TEST PROGRAM (STP).....	3	3
TOTAL, RDT&E MANAGEMENT SUPPORT.....	3,015,788	3,037,687
OPERATIONAL SYSTEMS DEVELOPMENT		
157 SPECIALIZED UNDERGRADUATE FLIGHT TRAINING.....	5,509	8,589
158 WIDE AREA SURVEILLANCE.....	2,760	2,760
160 F-35 C2D2.....	985,404	1,105,404
161 AF INTEGRATED PERSONNEL AND PAY SYSTEM (AF-IPPS).....	22,010	22,010
162 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY.....	51,492	51,492
163 FOREIGN MATERIEL ACQUISITION AND EXPLOITATION.....	71,391	71,391
164 HC/MC-130 RECAP RDT&E.....	46,796	46,796
165 NC3 INTEGRATION.....	26,532	26,532
167 B-52 SQUADRONS.....	715,811	646,811
168 AIR-LAUNCHED CRUISE MISSILE (ALCM).....	453	453
169 B-1B SQUADRONS.....	29,127	39,127
170 B-2 SQUADRONS.....	144,047	131,647

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
171 MINUTEMAN SQUADRONS.....	113,622	113,622
172 WORLDWIDE JOINT STRATEGIC COMMUNICATIONS.....	15,202	15,202
174 ICBM REENTRY VEHICLES.....	96,313	96,313
176 UH-1N REPLACEMENT PROGRAM.....	16,132	16,132
177 REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION..	771	771
178 NORTH WARNING SYSTEM (NWS).....	99	99
179 OVER-THE-HORIZON BACKSCATTER RADAR.....	42,300	67,400
180 VEHICLES AND SUPPORT EQUIPMENT - GENERAL.....	5,889	5,889
181 MQ-9 UAV.....	85,135	79,121
182 JOINT COUNTER RCIED ELECTRONIC WARFARE.....	3,111	3,111
183 MULTI-PLATFORM ELECTRONIC WARFARE EQUIPMENT.....	36,607	36,607
184 A-10 SQUADRONS.....	39,224	34,224
185 F-16 SQUADRONS.....	224,573	225,573
186 F-15E SQUADRONS.....	239,616	239,616
187 MANNED DESTRUCTIVE SUPPRESSION.....	15,855	15,855
188 F-22 SQUADRONS.....	647,296	647,296
189 F-35 SQUADRONS.....	69,365	69,365
190 F-15EX.....	118,126	107,126
191 TACTICAL AIM MISSILES.....	32,974	32,974
192 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	51,288	51,288
193 COMBAT RESCUE - PARARESCUE.....	852	852
194 AF TENCAP.....	23,685	23,685
195 PRECISION ATTACK SYSTEMS PROCUREMENT.....	12,083	12,083
196 COMPASS CALL.....	91,266	91,266
197 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	103,715	115,715
198 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM).....	117,325	117,325
199 SMALL DIAMETER BOMB (SDB).....	27,109	32,109
200 AIR AND SPACE OPERATIONS CENTER (AOC).....	3	90,027
201 CONTROL AND REPORTING CENTER (CRC).....	9,875	9,875
202 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS).....	171,014	167,014
203 TACTICAL AIRBORNE CONTROL SYSTEMS AFSPECWAR - TACP.....	4,598	4,598
205 COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES.....	21,863	17,863
206 THEATER BATTLE MANAGEMENT (TBM) C41.....	7,905	7,905
207 ELECTRONIC WARFARE INTEGRATED REPROGRAMMING (EWIR).....	15,000	15,000
208 TACTICAL AIR CONTROL PARTY--MOD.....	13,081	13,081

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
209 DCAPES.....	4,305	4,305
210 AIR FORCE CALIBRATION PROGRAMS.....	1,984	1,984
211 AIRBASE AIR DEFENSE SYSTEMS (ABADS).....	7,392	7,392
212 NATIONAL TECHNICAL NUCLEAR FORENSICS.....	1,971	1,971
213 SEEK EAGLE.....	30,539	30,539
214 USAF MODELING AND SIMULATION.....	17,110	17,110
215 WARGAMING AND SIMULATION CENTERS.....	7,535	7,535
216 BATTLEFIELD ABN COMM NODE (BACN).....	32,008	32,008
217 DISTRIBUTED TRAINING AND EXERCISES.....	4,007	4,007
218 MISSION PLANNING SYSTEMS.....	92,557	96,057
219 TACTICAL DECEPTION.....	489	14,338
220 OPERATIONAL HG - CYBER.....	2,115	2,115
221 DISTRIBUTED CYBER WARFARE OPERATIONS.....	72,487	72,487
222 AF DEFENSIVE CYBERSPACE OPERATIONS.....	18,449	18,449
223 JOINT CYBER COMMAND AND CONTROL (JCC2).....	79,079	79,079
224 UNIFIED PLATFORM (UP).....	101,893	91,893
228 INTEL DATA APPLICATIONS.....	493	493
229 GEOBASE.....	2,782	2,782
230 NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES).....	---	44,684
231 CYBER SECURITY INTELLIGENCE SUPPORT.....	5,224	5,224
AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR		
238 BATTLESPACE AWARENESS.....	2,463	2,463
239 E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC).....	26,331	26,331
240 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	20,700	58,165
242 INFORMATION SYSTEMS SECURITY PROGRAM.....	8,032	8,032
243 GLOBAL FORCE MANAGEMENT - DATA INITIATIVE.....	452	452
244 ALL DOMAIN COMMON PLATFORM.....	64,000	64,000
246 AIRBORNE SIGINT ENTERPRISE.....	97,546	93,546
247 COMMERCIAL ECONOMIC ANALYSIS.....	3,770	3,770
251 CCMD INTELLIGENCE INFORMATION TECHNOLOGY.....	1,663	1,663
252 ISR MODERNIZATION & AUTOMATION DVMT (IMAD).....	18,888	15,888
253 GLOBAL AIR TRAFFIC MANAGEMENT (GATM).....	4,672	4,672
254 CYBER SECURITY INITIATIVE.....	290	290
255 WEATHER SERVICE.....	26,228	39,228
256 AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC).....	8,749	15,749

123F)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
257 AERIAL TARGETS.....	1,528	1,528
258 SECURITY AND INVESTIGATIVE ACTIVITIES.....	223	223
260 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	8,733	8,733
264 INTEGRATED BROADCAST SERVICE.....	21,335	21,335
265 DRAGON U-2.....	17,146	35,846
267 AIRBORNE RECONNAISSANCE SYSTEMS.....	71,791	108,291
268 MANNED RECONNAISSANCE SYSTEMS.....	14,799	14,799
269 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	24,568	24,568
270 RQ-4 UAV.....	83,124	83,124
271 NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA).....	17,224	17,224
272 NATO AGS.....	19,473	19,473
273 SUPPORT TO DCGS ENTERPRISE.....	40,421	40,421
274 INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITECTURES.....	14,473	14,473
275 RAPID CYBER ACQUISITION.....	4,326	4,326
276 PERSONNEL RECOVERY COMMAND & CTRL (PRC2).....	2,567	2,567
277 INTELLIGENCE MISSION DATA (IMD).....	6,169	6,169
278 C-130 AIRLIFT SQUADRON.....	9,752	12,552
279 C-5 AIRLIFT SQUADRONS.....	17,507	17,507
280 C-17 AIRCRAFT.....	16,360	16,360
281 C-130J PROGRAM.....	14,112	24,112
282 LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM).....	5,540	5,540
283 KC-135S.....	3,564	3,564
285 CV-22.....	17,189	17,189
286 SPECIAL TACTICS / COMBAT CONTROL.....	6,640	6,640
288 MAINTENANCE, REPAIR & OVERHAUL SYSTEM.....	26,921	26,921
289 LOGISTICS INFORMATION TECHNOLOGY (LOGIT).....	7,071	11,071
291 OTHER FLIGHT TRAINING.....	1,999	5,999
292 OTHER PERSONNEL ACTIVITIES.....	---	5,000
293 JOINT PERSONNEL RECOVERY AGENCY.....	1,841	1,841
294 CIVILIAN COMPENSATION PROGRAM.....	3,560	3,560
295 PERSONNEL ADMINISTRATION.....	3,368	3,368
296 AIR FORCE STUDIES AND ANALYSIS AGENCY.....	1,248	1,248
297 FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT..	4,852	4,852
298 DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS).....	---	54,400

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
301 SERVICE SUPPORT TO SPACECOM ACTIVITIES.....	6,737	6,737
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	5,836,568	6,229,256
9999 CLASSIFIED PROGRAMS.....	15,868,973	17,011,053
STRATEGIC MISSION PLANNING AND EXECUTION SYSTEM - SOFTWARE PILOT PROGRAM.....	96,100	---
AIR & SPACE OPERATIONS CENTER (AOC) - SOFTWARE PILOT PROGRAM.....	186,915	---
DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS) - SOFTWARE PILOT PRO.....	135,263	---
	=====	=====
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE.....	39,184,328	41,592,913
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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 DEFENSE RESEARCH SCIENCES	328,303	353,303
Program increase - basic research		25,000
2 UNIVERSITY RESEARCH INITIATIVES	162,403	187,403
Program increase - Defense university research instrumentation program		25,000
5 MATERIALS	113,460	220,960
Program increase - born qualified additive manufacturing		20,000
Program increase - deployable passive cooling		5,000
Program increase - digital maintenance advisor demonstration for F-16		5,000
Program increase - failure prediction in material models		5,000
Program increase - nano-bio technologies for aeromedical and en route care		10,000
Program increase - high and ultra-high temperature ceramic-matrix composites for hypersonics		10,000
Program increase - additive manufacturing of alloys		10,000
Program increase - high energy synchrotron x-ray research		8,500
Program increase - photonic radio frequency CM		10,000
Program increase - stealth aircraft coatings research		4,000
Program increase - thermal protection for hypersonic vehicles		10,000
Program increase - coating technologies to reduce lifecycle costs		5,000
Program increase - maturation of carbon-carbon thermal protection systems		5,000
6 AEROSPACE VEHICLE TECHNOLOGIES	163,032	183,032
Program increase - educational partnership agreement for secure UAV technologies		10,000
Program increase - collaborative hypersonic demonstration		10,000
7 HUMAN EFFECTIVENESS APPLIED RESEARCH	136,273	156,863
Program increase - F-35 helmet mounted display system tech refresh and weight reduction		9,590
Program increase - pilot hypoxia detection and notification		7,000
Program increase - special tactics support assessment		4,000
8 AEROSPACE PROPULSION	174,683	190,683
Program increase - modular open system architecture for turbine engine technology		6,000
Program increase - small business research for rocket technology		5,000
Program increase - emergency power and cooling thermal management growth		5,000

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9 AEROSPACE SENSORS	193,514	255,918
Program increase - exploitation detection for flexible combat avionics		5,000
Program increase - low cost sensors for UAVs		5,000
Program increase - zero-trust environment for semi-conductor technology		10,000
Program increase - extreme wideband RF sensor		19,000
Program increase - reliability of combat cloud communications systems		7,000
Air Force requested transfer from RDTE,SF line 1 for civilian pay		5,404
Program increase - hardware-based oversight system for microelectronic endpoints		6,000
Program increase - enhanced security sensors to detect threats in near and far field emissions		5,000
13 DIRECTED ENERGY TECHNOLOGY	121,869	116,456
Air Force requested transfer to RDTE,SF line 1 for civilian pay		-5,413
14 DOMINANT INFORMATION SCIENCES AND METHODS	169,110	221,110
Program increase - quantum network testbed		10,000
Program increase - photonic quantum computing		25,000
Program increase - quantum internet battlefield		7,000
Program increase - ion trap quantum computing		10,000
17 FUTURE AIR FORCE INTEGRATED TECHNOLOGY DEMOS	131,643	112,643
Program growth - Rocket Cargo		-19,000
18 ADVANCED MATERIALS FOR WEAPON SYSTEMS	31,905	63,378
Transformational technology development lack of justification		-327
Program increase - metals affordability research		10,000
Program increase - polymer printing technology for additive manufacturing		5,000
Program increase - certification for advanced materials		15,000
Program increase - laser protective eyewear		1,800
19 SUSTAINMENT S&T	21,057	19,112
Transformational technology development lack of justification		-1,945
20 ADVANCED AEROSPACE SENSORS	44,730	53,750
Transformational technology development lack of justification		-1,014
Air Force requested transfer from RDTE,SF line 2		734
Program increase - software verification and validation for autonomous sensors		9,300
21 AEROSPACE TECHNOLOGY DEV/DEMO	70,486	105,486
Program increase - heavy fuel engine hybrid electric ducted fan advanced propulsion		15,000
Program increase - small unit autonomous UAS resupply		20,000

R-1	Budget Request	Final Bill
22 AEROSPACE PROPULSION & POWER TECHNOLOGY Program increase - domestic manufacturing of solid state power controllers Program increase - silicon carbide research Program increase - hypersonic liquid rocket propulsion Program increase - altitude chamber infrastructure upgrades	75,273	110,273 10,000 10,000 10,000 5,000
23 ELECTRONIC COMBAT TECHNOLOGY Transformational technology development - EW quick reaction capabilities lack of justification Transformational technology development - RF warning and countermeasures technology lack of justification	46,591	44,938 -1,517 -136
26 HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY Transformational technology development - directed energy bioeffects parameters lack of justification Transformational technology development - human dynamics and terrain demonstration lack of justification Transformational technology development - mission effective performance lack of justification Transformational technology development - warfighter interfaces lack of justification	24,589	23,459 -240 -308 -411 -171
27 CONVENTIONAL WEAPONS TECHNOLOGY Transformational component lack of justification	157,423	155,306 -2,117
28 ADVANCED WEAPONS TECHNOLOGY Transformational technology development - high power solid state laser technology lack of justification Transformational technology development - high power microwave development and integration lack of justification Program increase - LIDAR CUAS automated target recognition	28,258	31,855 -188 -1,215 5,000

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29 MANUFACTURING TECHNOLOGY PROGRAM	45,259	176,200
Manufacturing for transformational technologies lack of justification		-1,810
Program increase - academic-industry partnerships for advanced materials and manufacturing processes		6,000
Program increase - adaptive modeling for low-cost titanium		5,000
Program increase - beryllium additive manufacturing		3,000
Program increase - component 3D online demonstration		10,000
Program increase - flexible thermal protection systems for hypersonics		10,000
Program increase - hybrid manufacturing for rapid tooling and repair		10,000
Program increase - massive area additive manufacturing		10,000
Program increase - MRO advanced process technology development		10,000
Program increase - sustainment and modernization research and development		10,000
Program increase - technologies to repair fastener holes		5,000
Program increase - thermoplastic material systems		4,751
Program increase - virtual augmented mixed reality readiness		8,000
Program increase - affordable manufacture of resistive films		10,000
Program increase - automated fiber placement for composite structures		5,000
Program increase - rapid large format metal additive manufacturing to optimize scramjet production		5,000
Program increase - universal robotic controller		6,000
Program increase - manufacturing technology for reverse engineering		5,000
Program increase - hypersonics supply chain research		10,000
30 BATTLESPACE KNOWLEDGE DEV/DEMO	56,772	72,138
Transformational technology development - battlespace development and demonstration lack of justification		-2,011
Transformational technology development - cyber battlespace development and demonstration lack of justification		-813
Program increase - assured communication and networks		10,000
Project increase - development of cybersecurity methodologies		2,990
Project increase - Skydome trusted Smart-X experimentation environment		200
Program increase - command and control capability development and deployment		5,000
34 ICBM DEM/VAL	49,621	76,621
Program increase - ICBM mission enhancements		27,000
37 AIR FORCE WEATHER SERVICES RESEARCH	986	3,855
Program increase - drought warning system		2,869
38 ADVANCED BATTLE MANAGEMENT SYSTEM	203,849	268,849
Program increase		15,000
Program increase - digital infrastructure		50,000
39 ADVANCED ENGINE DEVELOPMENT	123,712	583,712
Program increase - AETP		460,000

123L

R-1	Budget Request	Final Bill
40 ARCHITECTURE INITIATIVES Architecture design and integration excess to need Architecture demonstration and evaluation excess to need	82,438	25,138 -4,000 -53,300
42 DIRECTED ENERGY PROTOTYPING Program increase - HEL prototype with advanced thermal and power technology	10,820	15,820 5,000
43 HYPERSONICS PROTOTYPING Transfer ARRW funding to new line 43A Transfer HACM funding to new line 43B	438,378	0 -238,262 -200,116
HYPERSONICS PROTOTYPING - AIR LAUNCHED RAPID		
43A RESPONSE WEAPON (ARRW) Transfer from line 43 for greater transparency and budget discipline Transfer from MP,AF line 4 for testing shortfall	0	318,687 238,262 80,425
HYPERSONICS PROTOTYPING - HYPERSONIC ATTACK CRUISE		
43B MISSILE (HACM) Transfer from line 43 for greater transparency and budget discipline HACM ahead of need	0	190,116 200,116 -10,000
46 SURVIVABLE AIRBORNE OPERATIONS CENTER Air Force requested transfer to line 240 for common VLF/LF receiver incr 2	133,253	95,788 -37,465
47 TECHNOLOGY TRANSFER Program increase - technology transfer Program increase - academic partnership intermediary agreements Program increase - partnership intermediary agreements Program increase - digital part transformation to support operational readiness	15,768	56,768 7,000 10,000 4,000 20,000
HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM		
48 (HDBTDS) PROGRAM Unexecuted prior year balances	15,886	12,886 -3,000
51 TECH TRANSITION PROGRAM Program increase - additive metals manufacturing Transfer to line 51A operational energy efforts Prototyping program growth MC-130 amphibious capability experimentation Program increase - Agility Prime Program increase - logistics enhancements Program increase - autonomous air combat operations Program increase - alternative PNT phase III demonstration	343,545	369,045 10,000 -34,000 -11,500 -11,000 54,000 4,000 10,000 4,000
51A OPERATIONAL ENERGY AND INSTALLATION RESILIENCE Program increase - energy and climate resilience Transfer from line 51 for operational energy efforts	0	104,000 70,000 34,000

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R-1	Budget Request	Final Bill
65 RAPID SUSTAINMENT MODERNIZATION (RSM)	0	55,000
Program increase - additive manufacturing with integrated digital engineering		5,000
Program increase - additive manufacturing		16,000
Program increase - research for rapid repair and sustainability		6,000
Program increase - laser metal deposition powder for turbine engine component restoration		13,000
Program increase - air frame additive manufacturing		15,000
78 FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS	23,499	18,499
Underexecution		-5,000
79 PNT RESILIENCY, MODS, AND IMPROVEMENTS	167,520	163,520
Reduce program growth		-4,000
81 ELECTRONIC WARFARE DEVELOPMENT	2,110	7,110
Program increase - next generation ultra wideband receiver for radar jammer		5,000
82 TACTICAL DATA NETWORKS ENTERPRISE	169,836	159,836
Underexecution		-10,000
87 AGILE COMBAT SUPPORT	16,603	27,938
Contract award delays		-1,665
Program increase - airfield sustainment and damage recovery technologies		5,000
Program increase - carbon materials		3,000
Program increase - modern timber products for expeditionary construction		5,000
92 LONG RANGE STANDOFF WEAPON	609,042	599,042
Rephase funds for EMD contract award		-10,000
96 KC-46	1	0
Programming error		-1
98 HH-60W (CRH)	66,355	62,255
Contract award delays		-4,100
103 FULL COMBAT MISSION TRAINING	7,064	12,064
Program increase - airborne augmented reality for pilot training		5,000
105 KC-46A TANKER SQUADRONS	73,458	66,758
Underexecution		-6,700
107 VC-25B	680,665	655,665
Program delays		-25,000
109 TRAINING DEVELOPMENTS	4,482	2,482
Underexecution		-2,000

123N

R-1	Budget Request	Final Bill
124 THREAT SIMULATOR DEVELOPMENT	41,909	46,909
Program increase - commercial physics-based modeling and simulation technology		5,000
ACQUISITION WORKFORCE - GLOBAL VIGILANCE AND COMBAT		
131 SYSTEMS	243,796	267,919
Air Force requested realignment		24,123
132 ACQUISITION WORKFORCE - GLOBAL REACH	435,930	429,659
Air Force requested realignment		-6,271
ACQUISITION WORKFORCE - CYBER, NETWORK, AND		
133 BUSINESS SYSTEMS	435,274	439,571
Air Force requested realignment		297
Program increase - business enterprise systems product innovation		4,000
135 ACQUISITION WORKFORCE - CAPABILITY INTEGRATION	243,806	263,014
Air Force requested realignment		19,208
ACQUISITION WORKFORCE - ADVANCED PROGRAM		
136 TECHNOLOGY	103,041	62,755
Air Force requested realignment		-40,286
137 ACQUISITION WORKFORCE- NUCLEAR SYSTEMS	226,055	227,425
Air Force requested realignment		1,370
138 MANAGEMENT HQ - R&D	4,079	5,537
Air Force requested realignment		1,458
141 REQUIREMENTS ANALYSIS AND MATURATION	85,799	90,799
Prior year carryover		-5,000
Program increase - nuclear modernization analytics		10,000
144 C4 - STRATCOM	25,340	35,340
Program increase - NC3 rapid engineering architecture collaboration hub		10,000
145 ENTERPRISE INFORMATION SERVICES	28,720	26,720
Reduce program growth		-2,000
157 SUFT	5,509	8,589
Program increase - PRIME desktop trainer		3,080
160 F-35 C2D2	985,404	1,105,404
Program increase - F135 engine enhancement		120,000
167 B-52 SQUADRONS	715,811	646,811
CERP rapid prototyping materiel contract delay		-55,000
Radar modernization contract delay		-26,000
Program increase - global strike innovation hub		10,000
Program increase - B-52 training automation		2,000
169 B-1B SQUADRONS	29,127	39,127
Hypersonic integration		10,000

1230

R-1	Budget Request	Final Bill
170 B-2 SQUADRONS	144,047	131,647
B-2 display modernization carryover		-12,400
179 OVER-THE-HORIZON BACKSCATTER RADAR	42,300	67,400
Program increase - North Warning System (NWS) OTH radar		25,100
181 MQ-9	85,135	79,121
Program protection technology insertion ahead of need		-1,014
Government cost growth		-5,000
184 A-10 SQUADRONS	39,224	34,224
OFP delays		-5,000
185 F-16 SQUADRONS	224,573	225,573
Program increase - lithium battery replacement for F-16 hydrazine emergency power units		5,000
Digital warning radar schedule slip		-4,000
190 F-15EX	118,126	107,126
Prior year carryover		-11,000
197 ENGINE CIP	103,715	115,715
Program increase - F135		12,000
199 SMALL DIAMETER BOMB	27,109	32,109
Program increase - precise navigation		5,000
200 AIR AND SPACE OPERATIONS CENTER	3	90,027
Programming error		-3
Transfer from line 318		90,027
202 AWACS	171,014	167,014
Reduce program growth		-4,000
205 COMBAT AIR INTELLIGENCE SYSTEM	21,863	17,863
Underexecution		-4,000
218 MISSION PLANNING SYSTEMS	92,557	96,057
Program increase - digital flight scheduling		3,500
219 TACTICAL DECEPTION	489	14,338
Program increase - radar modeling		6,849
Program increase - asset signature modification		7,000
224 UNIFIED PLATFORM	101,893	91,893
Unjustified growth		-10,000
230 NUCLEAR PLANNING AND EXECUTION SYSTEM	0	44,684
Transfer from line 317		44,684
240 MEECN	20,700	58,165
Air Force requested transfer from line 46 for common VLF/LF receiver incr 2		37,465

123P

R-1	Budget Request	Final Bill
246 AIRBORNE SIGINT ENTERPRISE	97,546	93,546
Program element carryover		-4,000
252 ISR MODERNIZATION & AUTOMATION DEVELOPMENT	18,888	15,888
Underexecution		-3,000
255 WEATHER SERVICE	26,228	39,228
Program increase - commercial weather data pilot		10,000
Program increase - atmospheric rivers research		3,000
256 ATCALs	8,749	15,749
Program increase - wind turbine impact mitigation radar certification		2,000
Program increase - mobile air traffic system with UAS negation		5,000
265 U-2	17,146	35,846
Program increase - unfunded priority for avionics tech refresh and sensor on-board processor		18,700
267 AIRBORNE RECONNAISSANCE SYSTEMS	71,791	108,291
Program increase - wide area motion imagery		12,500
Program increase - Air Force unfunded priority for ASARS upgrades		24,000
278 C-130 SQUADRONS	9,752	12,552
Program increase - C-130H infrared suppression		2,800
281 C-130J	14,112	24,112
HUD with enhanced vision system for firefighting		10,000
289 LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	7,071	11,071
Program increase - automated inventory management demonstration		4,000
291 OTHER FLIGHT TRAINING	1,999	5,999
Program increase - aircraft transition optimization support		4,000
292 OTHER PERSONNEL ACTIVITIES	0	5,000
Program increase - implementation of Independent Review Commission on Sexual Assault in the Military		5,000
298 DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS)	0	54,400
Transfer from line 319		54,400
999 CLASSIFIED PROGRAMS	15,868,973	17,011,053
Classified adjustment		1,142,080
STRATEGIC MISSION PLANNING AND EXECUTION SYSTEM -		
317 SOFTWARE PILOT PROGRAM	96,100	0
Transfer to OMAF lines 11C, 15D and 42A		-46,374
Transfer to OPAF line 23		-212
Transfer to OPAF line 26		-4,845
Transfer to line 230		-44,669

123 Q

R-1	Budget Request	Final Bill
AIR & SPACE OPERATIONS CENTER (AOC) - SOFTWARE PILOT		
318 PROGRAM	186,915	0
Transfer to OMAF lines 11C, 15D and 42A		-74,849
Transfer to OPAF line 42		-20,795
Transfer to line 200		-90,027
Excess to need		-1,244
319 DEAMS - SOFTWARE PILOT PROGRAM	135,263	0
Transfer to OMAF lines 11C, 15D and 42A		-77,760
Transfer to OPAF line 39		-3,103
Transfer to line 298		-54,400

123R

TECHNOLOGY TRANSFER

The agreement directs the Secretary of the Air Force to submit to the congressional defense committees, not later than 90 days after the enactment of this Act, a report on the funding required and budgeted across the future years defense program for Air Force technology transfer along with an analysis of the current use of partnership intermediary agreements within the Department of Defense laboratory system for technology transfer with the Air Force.

HYPERSONICS PROTOTYPING

The agreement provides \$318,687,000 for the Air-Launched Rapid Response Weapon (ARRW) and \$190,116,000 for the Hypersonic Attack Cruise Missile. The budget request combined funding for these prototyping efforts into a single line. The agreement provides funds for each effort in a separate line to increase transparency and oversight. Due to recent failures and delays in testing that have extended the ARRW program schedule and put a first production lot contract at risk for award in fiscal year 2022, no procurement funds are provided in this Act for ARRW. In consultation with the Air Force, the agreement transfers \$80,425,000 requested in Missile Procurement, Air Force to this account to support an extension of the testing program and mitigate a projected funding shortfall for the ARRW prototyping effort within this account. This language replaces the language under this heading in House Report 117-88.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE

The agreement provides \$11,597,405,000 for Research, Development, Test and Evaluation, Space Force, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (125 A-f)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE		
1 APPLIED RESEARCH		
SPACE TECHNOLOGY.....	175,796	286,505
TOTAL, APPLIED RESEARCH.....	175,796	286,505
2 ADVANCED TECHNOLOGY DEVELOPMENT		
SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEMO.....	76,653	238,584
2A TECH TRANSITION PROGRAM (SPACE).....	---	50,000
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	76,653	288,584
COMPONENT DEVELOPMENT & PROTOTYPES		
3 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)		
(SPACE).....	434,194	434,194
4 EO/IR WEATHER SYSTEMS.....	162,274	162,274
5 SPACE SYSTEM SUPPORT.....	37,000	37,000
6 WEATHER SYSTEM FOLLOW-ON.....	61,521	53,421
7 SPACE SITUATION AWARENESS SYSTEM.....	123,262	105,062
8 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT).....	101,851	91,851
9 SPACE CONTROL TECHNOLOGY.....	32,931	35,931
10 SPACE SECURITY AND DEFENSE PROGRAMS (SSDP).....	56,546	53,896
11 PROTECTED TACTICAL ENTERPRISE SERVICE (PTES).....	100,320	100,320
12 PROTECTED TACTICAL SERVICE (PTS).....	243,285	229,329
13 EVOLVED STRATEGIC SATCOM (ESS).....	160,056	172,089
14 SPACE RAPID CAPABILITIES OFFICE.....	66,193	73,193
TOTAL, COMPONENT DEVELOPMENT & PROTOTYPES.....	1,579,433	1,548,560
SYSTEM DEVELOPMENT & DEMONSTRATION		
15 GPS III FOLLOW-ON (GPS IIIF).....	264,265	246,332
16 SPACE SITUATION AWARENESS OPERATIONS.....	56,279	42,008
17 COUNTERSPACE SYSTEMS.....	38,063	48,063
18 WEATHER SYSTEM FOLLOW-ON.....	1,438	1,438
19 SPACE SITUATION AWARENESS SYSTEMS.....	127,026	127,026
20 ADVANCED EHF MILSATCOM (SPACE).....	28,218	26,942
21 POLAR MILSATCOM (SPACE).....	127,870	112,170
22 NEXT GENERATION OPIR.....	2,451,256	125,853
22A NEXT GENERATION OPIR - GEO.....	---	1,199,193
22B NEXT GENERATION OPIR - POLAR.....	---	471,398
22C NEXT GENERATION OPIR - GROUND.....	---	542,477

(TASA)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
23 COMMERCIAL SATCOM (COMSATCOM) INTEGRATION.....	23,400	23,400
24 NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE) - EMD..	221,510	201,510
TOTAL, SYSTEM DEVELOPMENT & DEMONSTRATION.....	3,339,325	3,167,810
MANAGEMENT SUPPORT		
25 SPACE TEST AND TRAINING RANGE DEVELOPMENT.....	19,319	69,819
26 ACQ WORKFORCE - SPACE & MISSILE SYSTEMS.....	214,051	214,051
27 SPACE & MISSILE SYSTEMS CENTER - MHA.....	12,119	12,119
28 MAJOR T&E INVESTMENT - SPACE.....	71,503	86,503
29 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE).....	17,769	17,769
30 TACTICALLY RESPONSIVE LAUNCH.....	---	50,000
31 SPACE TEST PROGRAM (STP).....	20,881	20,881
TOTAL, RDT&E MANAGEMENT SUPPORT.....	355,642	471,142
OPERATIONAL SYSTEMS DEVELOPMENT		
33 GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN).....	4,731	4,731
34 FAMILY OF ADVANCED BLOS TERMINALS (FAB-T).....	156,788	156,788
35 DCO-SPACE.....	2,150	2,150
36 NARROWBAND SATELLITE COMMUNICATIONS.....	112,012	110,012
37 SATELLITE CONTROL NETWORK (SPACE).....	36,810	36,810
38 NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL SEGMENTS).....	1,966	1,966
39 SPACE AND MISSILE TEST EVALUATION CENTER.....	1,699	1,699
40 SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT.....	18,054	18,054
41 SPACELIFT RANGE SYSTEM (SPACE).....	11,115	31,115
42 GPS III SPACE SEGMENT.....	7,207	7,207
43 SPACE SUPERIORITY ISR.....	18,109	18,109
44 NATIONAL SPACE DEFENSE CENTER (NSDC).....	1,280	1,280
45 BALLISTIC MISSILE DEFENSE RADARS.....	12,292	12,292
46 NCMC - TW/AA SYSTEM.....	9,858	9,858
47 NUDET DETECTION SYSTEM (SPACE).....	45,887	45,887
48 SPACE SITUATION AWARENESS OPERATIONS.....	64,763	64,763

125B

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
49 GLOBAL POSITIONING SYSTEM III - OPERATIONAL CONTROL SEGMENT.....	413,766	402,532
53 ENTERPRISE GROUND SERVICES.....	191,713	191,713
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,110,200	1,116,966
999 CLASSIFIED PROGRAMS.....	4,474,809	4,563,309
54 JSPOC MISSION SYSTEM.....	154,529	154,529
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE.....	11,266,387	11,597,405

125C

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 SPACE TECHNOLOGY	175,796	286,505
Inadequate justification		-7,500
Air Force requested transfer to RDTE,AF line 9 for civilian pay		-5,404
Air Force requested transfer from RDTE,AF line 13 for civilian pay		5,413
Program increase - radiation hardened microprocessor		8,900
Program increase - lithium sulfur battery development		4,000
Program increase - thin-film photovoltaic energy		3,000
Program increase - multi-mission distributed antenna technology		10,000
Program increase - hybrid space architecture		5,000
Program increase - autonomy in space		10,000
Program increase - ground-based interferometry		6,000
Program increase - non-toxic fuels		3,000
Program increase - open architecture payloads		10,000
Program increase - ultra-lightweight space solar arrays		5,000
Program increase - university consortia for space technology		10,000
Program increase - advanced multi-physics thermal management		5,000
Program increase - fundamental research		15,000
Program increase - adaptive medium-lift engine architecture		5,000
Program increase - architecture for space domain awareness beyond GEO		15,400
Program increase - space solar power inc demonstration		2,900
2 SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEMO	76,653	238,584
Program increase - tridyne multi-mode propulsion		7,000
Project increase - core manipulator joint		1,665
Air Force requested transfer to RDTE,AF line 20		-734
Program increase - accelerate cislunar flight experiment		61,000
Program increase - nuclear propulsion technologies for cislunar flight		70,000
Program increase - upper stage engine technology		23,000
2A TECH TRANSITION PROGRAM (SPACE)	0	50,000
Program increase - arctic communications		50,000
6 WEATHER SYSTEM FOLLOW-ON	61,521	53,421
WSF-M product development excess to need		-8,100
7 SPACE SITUATION AWARENESS SYSTEMS	123,262	105,062
DARC site 1 contract delays		-18,200
8 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	101,851	91,851
Program increase - space combat cloud		5,000
ROOSTER development delay		-15,000
9 SPACE CONTROL TECHNOLOGY	32,931	35,931
Program increase - high-thrust gridded ion engine		3,000
10 SPACE SECURITY AND DEFENSE PROGRAM	56,546	53,896
Forward financing		-2,650
12 PROTECTED TACTICAL SERVICE (PTS)	243,285	229,329
Rapid prototyping excess to need		-13,956

125D

R-1	Budget Request	Final Bill
13 EVOLVED STRATEGIC SATCOM (ESS)	160,056	172,089
Prototyping excess to need		-7,967
Program increase - IT upgrades for NC3 cybersecurity		20,000
14 SPACE RAPID CAPABILITIES OFFICE	66,193	73,193
Program increase - Digital beamformed ground-based SATCOM		7,000
15 GPS III FOLLOW-ON (GPS IIIF)	264,265	246,332
Historical carryover		-17,933
16 SPACE SITUATION AWARENESS OPERATIONS	56,279	42,008
Management services unjustified increase		-4,000
GBOSS EMD contract excess to need		-10,271
17 COUNTERSPACE SYSTEMS	38,063	48,063
Program increase - Bounty Hunter		10,000
20 ADVANCED EHF MILSATCOM (SPACE)	28,218	26,942
Capabilities insertion program excess to need		-1,276
21 POLAR MILSATCOM (SPACE)	127,870	112,170
EPS-R product development excess to need		-8,000
EPS-R product development forward financing		-7,700
22 NEXT GENERATION OPIR	2,451,256	125,853
SMI technology maturation overestimation		-12,335
Overestimation of FORGE command and control		-10,000
Excess to need		-90,000
Transfer to line 22A for project 657120 Next-Gen OPIR Space, Block 0 GEO		-1,137,393
Transfer to line 22B for project 657121 Next-Gen OPIR Space, Block 0 Polar		-471,398
Transfer to line 22C for project 657106 Next-Gen OPIR Ground		-504,577
Space Force requested realignment		-99,700
22A NEXT GENERATION OPIR - GEO	0	1,199,193
Transfer from line 22 for project 657120 Next-Gen OPIR Space, Block 0 GEO		1,137,393
Space Force requested realignment		61,800
22B NEXT GENERATION OPIR - Polar	0	471,398
Transfer from line 22 for project 657121 Next-Gen OPIR Space, Block 0 Polar		471,398
22C NEXT GENERATION OPIR - Ground	0	542,477
Transfer from line 22 for project 657106 Next-Gen OPIR Ground		504,577
Space Force requested realignment		37,900
24 NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE) - EMD	221,510	201,510
Inadequate justification - enabling technologies		-20,000
25 SPACE TEST AND TRAINING RANGE DEVELOPMENT	19,319	69,819
Program increase - cyber training range		17,500
Program increase - advance threat simulation environment		33,000
28 MAJOR T&E INVESTMENT - SPACE	71,503	86,503
Program increase - lab and test range upgrades for space		15,000

125 E

R-1	Budget Request	Final Bill
30 TACTICALLY RESPONSIVE LAUNCH	0	50,000
Program increase		50,000
36 NARROWBAND SATELLITE COMMUNICATIONS	112,012	110,012
Analysis of alternatives inadequate justification		-5,000
Program increase - L-Band communications		3,000
41 SPACELIFT RANGE SYSTEM (SPACE)	11,115	31,115
Program increase - space launch range services and capabilities		20,000
49 GLOBAL POSITIONING SYSTEM III - OPERATIONAL CONTROL SEGMENT	413,766	402,532
OCX unjustified growth		-11,234
999 CLASSIFIED PROGRAMS	4,474,809	4,563,309
Classified adjustment		88,500

(125F)

SPACE FORCE ACQUISITION

The agreement provides the full amount requested for the Space Warfighting Analysis Center (SWAC) and is supportive of the work the SWAC is doing to inform architecture and acquisition decisions. However, concerns persist that the analytical and decision-making process within the Space Force is overly complex and convoluted and that responsibilities and authorities below the Secretary level are unclear and sometimes contradictory. Therefore, the agreement directs the Secretary of the Air Force, not to be delegated, to submit to the congressional defense committees, not later than 60 days after the enactment of this Act, a report that includes a draft mission directive; clarification of the roles and responsibilities of senior civilian and uniformed leaders with space responsibilities; organizational alignment of the acquisition units of the Space Force, to include the SWAC, Space Development Agency, Space Rapid Capabilities Office, and space programs in the Department of the Air Force Rapid Capabilities Office; and a plan to ensure the Assistant Secretary of the Air Force for Space Acquisition and Integration has the resources, responsibilities, and authorities necessary for success.

NEXT GENERATION OVERHEAD PERSISTENT INFRARED

The agreement directs the Secretary of the Air Force to submit the fiscal year 2023 budget submission with distinct budget lines and program elements for the Geosynchronous Earth Orbit, Polar, and Ground efforts. The agreement recognizes that the Space Force is considering alternative architecture plans for a more resilient and more capable missile warning and missile tracking system but notes that the Department of Defense and the Administration have not reached a consensus on whether or how quickly to pursue a new path. Therefore, the agreement directs the Secretary of the Air Force to promptly notify the congressional defense committees of any significant change to the current architecture and program plans prior to obligating any funds or taking contract

actions for such change. Last, the agreement continues previous direction for the Secretary of the Air Force to provide quarterly briefings to the congressional defense committees on the status of the program.

SPACE FORCE UNIQUE SCIENCE AND TECHNOLOGY

The agreement recognizes that science and technology programs can have shared goals and leverage advancements in research areas that cut across both the air and space domains. While there are clear benefits to cross-domain multi-disciplinary investments, it can result in an increased level of complexity in allocating resources to the appropriate Service appropriations accounts for technology discovery and application efforts early in the research and development (R&D) phase. The agreement notes that space unique capabilities and those programs executed out of the Space Vehicles Directorate at the Air Force Research Lab, are more appropriately budgeted in the Research, Development, Test and Evaluation, Space Force account. Therefore, the Secretary of the Air Force is directed to provide a comprehensive proposal to the congressional defense committees to establish an objective, transparent, and effective means to align the Department of the Air Force's science and technology resources across the R&D continuum, not later than 90 days after the enactment of this Act.

COMMERCIAL TECHNOLOGIES

Existing and emerging commercial solutions have the potential to meet certain mission sets of the United States Space Force (USSF), including communications, space domain awareness, and intelligence, surveillance, and reconnaissance. The USSF and other space organizations within the Department have publicly championed a hybrid space architecture that includes a combination of government and commercial space vehicles and Services. However, the agreement notes that the USSF is slow to prioritize

commercial offerings into its enterprise architecture and dedicate sufficient resources to continue advancements in enabling technologies, such as encryption technologies necessary for a ubiquitous hybrid architecture. Therefore, the agreement directs the Commander of Space Systems Command, not later than 90 days after the enactment of this Act, to provide the congressional defense committees a report detailing the strategy to integrate commercial satellites across its mission sets and a future years defense program resource profile by appropriation and line item dedicated to these efforts. The report shall address the tools needed to advance the operational integration of commercial systems into a hybrid enterprise management system and address what acquisition models will be used to facilitate cost effective and efficient purchase of commercial systems and Services.

TACTICALLY RESPONSIVE SPACE

The Department of Defense Appropriations Act, 2021 (Public Law 116–260) appropriated \$15,000,000 for investments in tactically responsive space launch capabilities. Further, section 1609 of the National Defense Authorization Act for Fiscal Year 2021 (Public Law 116–283) directed the Secretary of the Air Force to establish a Tactically Responsive Space Launch program within the future years defense program. However, the fiscal year 2022 President’s budget request does not include any resources to establish the program this fiscal year despite a need to counter adversarial launches of disruptive technologies in a tactically relevant timeline. Therefore, the agreement provides \$50,000,000 for Tactically Responsive Launch efforts. Further, the agreement directs the Secretary of the Air Force, in consultation with the Chief of Space Operations, not later than 90 days after the enactment of this Act, to provide the congressional defense committees with an acquisition strategy that operationalizes a tactically responsive space capability, including satellites, launch vehicles, control systems, and

concept of operations, as well as the resource profile associated with the strategy across the future years defense program.

NUCLEAR PROPULSION TECHNOLOGY

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

RESEARCH, DEVELOPMENT, TEST AND EVALUATION,
DEFENSE-WIDE

The agreement provides \$29,065,786,000 for Research, Development, Test and Evaluation, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT 130A-P

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE		
1 BASIC RESEARCH		
DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	11,828	11,828
2 DEFENSE RESEARCH SCIENCES.....	395,781	445,781
3 HIGH ENERGY LASER RESEARCH INITIATIVES.....	15,390	20,390
4 BASIC RESEARCH INITIATIVES.....	39,828	76,828
5 BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE.....	76,018	77,518
6 NATIONAL DEFENSE EDUCATION PROGRAM.....	112,195	145,195
7 HISTORICALLY BLACK COLLEGES & UNIV (HBCU).....	31,136	100,000
8 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	34,708	37,208
TOTAL, BASIC RESEARCH.....	716,884	914,748
APPLIED RESEARCH		
9 JOINT MUNITIONS TECHNOLOGY.....	19,591	20,591
10 BIOMEDICAL TECHNOLOGY.....	108,698	108,698
12 DEFENSE TECHNOLOGY INNOVATION.....	22,918	17,500
13 LINCOLN LABORATORY RESEARCH PROGRAM.....	55,692	55,692
14 APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES.....	65,015	59,187
15 INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	430,363	480,363
16 BIOLOGICAL WARFARE DEFENSE.....	31,421	31,421
17 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	206,956	209,956
18 CYBER SECURITY RESEARCH.....	15,380	25,380
19 TACTICAL TECHNOLOGY.....	202,515	207,515
20 MATERIALS AND BIOLOGICAL TECHNOLOGY.....	317,024	308,024
21 ELECTRONICS TECHNOLOGY.....	357,384	393,384
22 COUNTER WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	197,011	197,011
23 SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH.....	9,601	9,601
24 HIGH ENERGY LASER RESEARCH.....	45,997	45,997
25 SOF TECHNOLOGY DEVELOPMENT.....	44,829	51,329
TOTAL, APPLIED RESEARCH.....	2,130,395	2,221,649
ADVANCED TECHNOLOGY DEVELOPMENT		
26 JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	23,213	30,213
27 SO/LIC ADVANCED DEVELOPMENT.....	4,665	4,665
28 COMBATING TERRORISM TECHNOLOGY SUPPORT.....	69,376	141,876
29 FOREIGN COMPARATIVE TESTING.....	25,432	25,432

130A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
31 COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT.....	399,362	409,862
32 ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT.....	15,800	40,000
33 ADVANCED RESEARCH.....	21,466	47,966
34 JOINT HYPERSONIC TECHNOLOGY DEVELOPMENT &TRANSITION...	51,340	51,340
35 JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	19,063	19,063
36 ADVANCED AEROSPACE SYSTEMS.....	174,043	194,043
37 SPACE PROGRAMS AND TECHNOLOGY.....	101,524	181,524
38 ANALYTIC ASSESSMENTS.....	24,012	24,012
39 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS.....	51,513	46,513
42 DEFENSE MODERNIZATION AND PROTOTYPING.....	115,443	96,943
43 DEFENSE INNOVATION UNIT	31,873	26,849
44 TECHNOLOGY INNOVATION.....	54,433	39,933
45 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV	197,824	197,824
46 RETRACT LARCH.....	99,175	99,175
47 JOINT ELECTRONIC ADVANCED TECHNOLOGY.....	18,221	18,221
48 JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	102,669	102,669
49 NETWORKED COMMUNICATIONS CAPABILITIES.....	2,984	2,984
50 DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	134,022	255,667
51 MANUFACTURING TECHNOLOGY PROGRAM.....	37,543	83,543
53 GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	12,418	12,418
54 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	51,863	91,863
55 MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT...	160,821	209,821
56 JOINT WARFIGHTING PROGRAM.....	2,169	2,169
57 ADVANCED ELECTRONICS TECHNOLOGIES.....	116,716	140,716
58 COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	251,794	251,794
59 NETWORK-CENTRIC WARFARE TECHNOLOGY.....	584,771	655,771
60 SENSOR TECHNOLOGY.....	294,792	294,792
61 DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	6,398	6,398
62 SOFTWARE ENGINEERING INSTITUTE.....	14,677	14,677
65 HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM.....	107,397	83,497
66 TEST & EVALUATION SCIENCE & TECHNOLOGY.....	267,161	465,161
67 NATIONAL SECURITY INNOVATION NETWORK.....	21,270	36,270
68 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT.....	74,300	108,900
74 SOF ADVANCED TECHNOLOGY DEVELOPMENT.....	93,415	112,415

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
75 SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT.	172,638	172,638
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	4,007,596	4,799,617
76 ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	28,687	28,687
77 WALKOFF.....	108,652	108,652
79 ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	71,429	123,139
80 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT...	277,949	213,382
81 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT...	745,144	725,028
82 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	129,445	133,945
83 BALLISTIC MISSILE DEFENSE SENSORS.....	224,750	254,962
84 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS.....	595,301	623,644
85 SPECIAL PROGRAMS - MDA.....	413,374	413,374
86 AEGIS BMD.....	732,512	639,549
87 BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT.....	603,448	564,946
88 BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	50,594	50,594
89 MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER (MDIOC).....	52,403	52,403
90 REGARDING TRENCH.....	11,952	11,952
91 SEA BASED X-BAND RADAR (SBX).....	147,241	147,241
92 ISRAELI COOPERATIVE PROGRAMS.....	300,000	300,000
93 BALLISTIC MISSILE DEFENSE TEST.....	362,906	389,156
94 BALLISTIC MISSILE DEFENSE TARGETS.....	553,334	560,478
96 COALITION WARFARE.....	5,103	5,103
97 NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G).....	374,665	337,665
98 DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	3,259	3,259
99 GUAM DEFENSE DEVELOPMENT.....	78,300	112,400
100 TECHNOLOGY MATURATION INITIATIVES.....	---	39,200
103 HYPERSONIC DEFENSE.....	247,931	287,796
104 ADVANCED INNOVATIVE TECHNOLOGIES.....	716,456	779,456
105 TRUSTED AND ASSURED MICROELECTRONICS.....	509,195	705,695
106 RAPID PROTOTYPING PROGRAM.....	103,575	137,675
107 DEFENSE INNOVATION UNIT (DIU) PROTOTYPING.....	11,213	16,213
108 DEPARTMENT OF DEFENSE (DOD) UNMANNED SYSTEM COMMON DEVELOPMENT.....	2,778	7,778

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
109 CATAPULT.....	7,166	7,166
110 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT - NON S&T...	23,200	23,200
111 HOMELAND DEFENSE RADAR-HAWAII.....	---	75,000
113 WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)....	3,519	3,519
JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND		
114 INTEROPERABILITY.....	17,439	17,439
115 LONG RANGE DISCRIMINATION RADAR.....	133,335	133,335
116 IMPROVED HOMELAND DEFENSE INTERCEPTORS.....	926,125	884,125
BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT		
117 TEST.....	32,697	32,697
118 AEGIS BMD TEST.....	117,055	111,206
119 BALLISTIC MISSILE DEFENSE SENSOR TEST.....	77,428	77,428
120 LAND-BASED SM-3 (LBSM3).....	43,158	43,158
BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT		
121 TEST.....	61,424	61,424
122 SAFETY PROGRAM MANAGEMENT.....	2,323	2,323
123 ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS.....	2,568	2,568
125 CYBER SECURITY INITIATIVE.....	1,142	1,142
126 SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING.....	636,179	1,204,179
127 SPACE TRACKING AND SURVEILLANCE SYSTEM.....	15,176	15,176
128 BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS.....	292,811	292,811
TOTAL, DEMONSTRATION & VALIDATION.....	9,854,341	10,761,268
ENGINEERING & MANUFACTURING DEVELOPMENT		
129 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	5,682	5,682
131 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	299,848	299,848
132 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	9,345	21,345
COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS		
133 DEVELOPMENT.....	14,063	14,063
134 INFORMATION TECHNOLOGY DEVELOPMENT.....	4,265	4,265
135 HOMELAND PERSONNEL SECURITY INITIATIVE.....	7,205	7,205
136 DEFENSE EXPORTABILITY PROGRAM.....	5,447	5,447
137 OUSD(C) IT DEVELOPMENT INITIATIVES.....	16,892	16,892
138 DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION..	679	679
140 DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM.....	32,254	32,254
142 MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS).....	5,500	5,500
143 DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES.....	7,148	7,148

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
144 TRUSTED & ASSURED MICROELECTRONICS.....	113,895	113,895
146 NUCLEAR COMMAND, CONTROL, & COMMUNICATIONS.....	3,991	3,991
149 DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)...	2,227	2,227
150 CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION....	20,246	20,246
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	548,687	560,687
MANAGEMENT SUPPORT		
151 JOINT CAPABILITY EXPERIMENTATION.....	8,444	8,444
152 DEFENSE READINESS REPORTING SYSTEM (DRRS).....	7,508	7,508
153 JOINT SYSTEMS ARCHITECTURE DEVELOPMENT.....	7,859	7,859
154 CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT....	550,140	994,618
155 ASSESSMENTS AND EVALUATIONS.....	17,980	17,980
156 MISSION SUPPORT.....	73,145	73,145
157 JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC).....	71,410	71,410
159 JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION..	52,671	52,671
160 CLASSIFIED PROGRAM USD(P).....	---	108,112
161 SYSTEMS ENGINEERING.....	40,030	40,030
162 STUDIES AND ANALYSIS SUPPORT.....	4,612	4,612
163 NUCLEAR MATTERS - PHYSICAL SECURITY.....	14,429	14,429
164 SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	4,759	4,759
165 GENERAL SUPPORT TO USD (INTELLIGENCE).....	1,952	10,452
166 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	110,503	115,503
SMALL BUSINESS INNOVATION RESEARCH (SBIR)/ SMALL 172 BUSINESS TECHNOLOGY TRANSFER.....	3,639	3,639
173 MAINTAINING TECHNOLOGY ADVANTAGE.....	25,889	26,889
174 DEFENSE TECHNOLOGY ANALYSIS.....	39,774	35,274
175 DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	61,453	61,453
176 R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	18,762	21,762
177 DEVELOPMENT TEST AND EVALUATION.....	27,366	27,366
178 MANAGEMENT HQ - R&D.....	12,740	12,740
MANAGEMENT HQ - DEFENSE TECHNICAL INFORMATION CENTER 179 (DTIC).....	3,549	3,549
180 BUDGET AND PROGRAM ASSESSMENTS.....	15,438	13,994
181 ODA TECHNOLOGY AND RESOURCE ANALYSIS.....	2,897	4,897
182 DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT.....	918	918
183 CYBER RESILIENCY AND CYBERSECURITY POLICY.....	31,638	31,638

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
184 DEFENSE OPERATIONS SECURITY (DOSI).....	2,925	2,925
185 JOINT STAFF ANALYTICAL SUPPORT.....	977	977
186 C4I INTEROPERABILITY.....	55,361	55,361
189 INFORMATION SYSTEMS SECURITY PROGRAM.....	853	853
191 DEFENSE MILITARY DECEPTION PROGRAM OFFICE.....	969	969
192 COMBINED ADVANCED APPLICATIONS.....	15,696	15,696
194 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	3,073	3,073
197 COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION.....	29,530	29,530
198 DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEQMI).....	689	689
199 MANAGEMENT HEADQUARTERS - MDA.....	24,102	24,102
200 JOINT SERVICE PROVIDER (JSP).....	2,645	2,645
9999 CLASSIFIED PROGRAMS.....	37,520	37,520
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,383,845	1,949,991
202 OPERATIONAL SYSTEMS DEVELOPMENT ENTERPRISE SECURITY SYSTEM (ESS).....	5,355	5,355
203 JOINT ARTIFICIAL INTELLIGENCE.....	10,033	148,447
206 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT.....	58,189	335,739
207 CWMD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT.....	18,721	18,721
208 GLOBAL THEATER SECURITY COOPERATION MANAGEMENT.....	7,398	7,398
209 CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS DEVELOPMENT).....	58,261	58,261
215 DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION.....	16,233	16,233
216 LONG HAUL COMMUNICATIONS (DCS).....	10,275	10,275
217 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK.....	4,892	4,892
218 KEY MANAGEMENT INFRASTRUCTURE (KMI).....	83,751	83,751
219 INFORMATION SYSTEMS SECURITY PROGRAM.....	49,191	69,191
220 INFORMATION SYSTEMS SECURITY PROGRAM.....	423,745	447,745
221 INFORMATION SYSTEMS SECURITY PROGRAM.....	5,707	5,707
222 GLOBAL COMMAND AND CONTROL SYSTEM.....	4,150	4,150
223 DEFENSE SPECTRUM ORGANIZATION.....	19,302	19,302
224 JOINT REGIONAL SECURITY STACKS (JRSS).....	9,342	9,342
226 FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY.....	15,326	15,326
232 SECURITY AND INVESTIGATIVE ACTIVITIES.....	8,800	8,800
235 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	3,820	3,820

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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
237 POLICY R&D PROGRAMS.....	4,843	4,843
238 NET CENTRICITY.....	13,471	13,471
240 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	5,994	5,994
246 INSIDER THREAT.....	---	3,000
247 HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM.....	1,273	1,273
255 LOGISTICS SUPPORT ACTIVITIES.....	1,690	1,690
256 PACIFIC DISASTER CENTERS.....	1,799	5,799
257 DEFENSE PROPERTY ACCOUNTABILITY SYSTEM.....	6,390	6,390
259 MQ-9 UAV.....	19,065	63,065
261 AVIATION SYSTEMS.....	173,537	173,537
262 INTELLIGENCE SYSTEMS DEVELOPMENT.....	32,766	30,399
263 OPERATIONAL ENHANCEMENTS.....	145,830	179,230
264 WARRIOR SYSTEMS.....	78,592	125,473
265 SPECIAL PROGRAMS.....	6,486	10,486
266 UNMANNED ISR.....	18,006	18,006
267 SOF TACTICAL VEHICLES.....	7,703	7,703
268 MARITIME SYSTEMS.....	58,430	62,630
270 OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	10,990	15,990
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,399,356	2,001,434
999 CLASSIFIED PROGRAMS.....	5,208,029	5,434,289
272 JOINT ARTIFICIAL INTELLIGENCE.....	186,639	---
NATIONAL BACKGROUND INVESTIGATION SERVICES - SOFTWARE 273 PILOT PROGRAM.....	123,570	123,570
274 ACQUISITION VISIBILITY - SOFTWARE PILOT PROGRAM.....	18,307	18,307
275 GLOBAL COMMAND AND CONTROL SYSTEM.....	32,774	32,774
ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS - SOFTWARE 276 PILOT PROGRAM.....	247,452	247,452
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TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE.....	25,857,875	29,065,786
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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
2 DEFENSE RESEARCH SCIENCES	395,781	445,781
Program increase - ERI 2.0		20,000
Program increase - AI, cyber, and data analytics		30,000
3 HIGH ENERGY LASER RESEARCH INITIATIVES	15,390	20,390
Program increase - high energy laser research		5,000
4 BASIC RESEARCH INITIATIVES	39,828	76,828
Program increase - asymmetric threat analysis		8,000
Program increase - Minerva		10,000
Program increase - DEPCOR		19,000
5 BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE	76,018	77,518
Project increase - novel analytical and empirical approaches to the prediction and monitoring of disease transmission		1,500
6 NATIONAL DEFENSE EDUCATION PROGRAM	112,195	145,195
Program increase - SMART diversification activities		2,000
Program increase - STEM programs		14,000
Program increase - civics education		2,000
Program increase - civil society		15,000
HISTORICALLY BLACK COLLEGES & UNIVERSITIES (HBCU) AND		
7 MINORITY-SERVING INSTITUTIONS	31,136	100,000
Program increase		68,864
8 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	34,708	37,208
Program increase - chemically resistant, high-performance military cordage, rope, and webbing		2,500
9 JOINT MUNITIONS TECHNOLOGY	19,591	20,591
Project increase - next generation explosives and propellants		1,000
12 DEFENSE TECHNOLOGY INNOVATION	22,918	17,500
Insufficient justification		-5,418
APPLIED RESEARCH FOR THE ADVANCEMENT OF S&T		
14 PRIORITIES	65,015	59,187
Unjustified growth		-5,828
15 INFORMATION AND COMMUNICATIONS TECHNOLOGY	430,363	480,363
Project increase - quantum computing		25,000
Program increase - AI, cyber, and data analytics		25,000
17 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	206,956	209,956
Program increase - tularemia medical countermeasure		3,000
18 CYBER SECURITY RESEARCH	15,380	25,380
Program increase - academic cyber institutes		10,000

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R-1	Budget Request	Final Bill
19 TACTICAL TECHNOLOGY	202,515	207,515
Underexecution		-10,000
Program increase - AI, cyber, and data analytics		15,000
20 MATERIALS AND BIOLOGICAL TECHNOLOGY	317,024	308,024
Unjustified increase		-9,000
21 ELECTRONICS TECHNOLOGY	357,384	393,384
Program increase - ERI 2.0		36,000
25 SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	44,829	51,329
Program increase - LRUSV asymmetric strike and decoy package		1,500
Program increase - sustained human performance and resilience		5,000
26 JOINT MUNITIONS ADVANCED TECHNOLOGY	23,213	30,213
Program increase - energetics revitalization		7,000
28 COMBATING TERRORISM TECHNOLOGY SUPPORT	69,376	141,876
Program increase - anti-tunneling		47,500
Program increase - cooperative C-UAS development		25,000
COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	399,362	409,862
Program increase - data-driven methods of nuclear weapon discovery		4,000
Program increase - detection and tracking technology		4,000
Program increase - reduced order models		2,500
32 ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	15,800	40,000
Program increase - cyber operations		9,000
Program increase - hypersonic kill vehicles hardware in the loop upgrades		10,000
Program increase - cybersecurity		5,200
33 ADVANCED RESEARCH	21,466	47,966
Program increase - 3D printed high temperature nickel based alloys for hypersonic applications		4,000
Program increase - Benzoxazine for high-mach system thermal protection		5,000
Program increase - high speed flight experiment testing		12,500
Program increase - laser weapons optics tech risk mitigation		5,000
36 ADVANCED AEROSPACE SYSTEMS	174,043	194,043
Program increase - hypersonics risk reduction		20,000
37 SPACE PROGRAMS AND TECHNOLOGY	101,524	181,524
Program increase - hypersonics risk reduction		80,000
39 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	51,513	46,513
Unjustified growth		-5,000

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R-1	Budget Request	Final Bill
42 DEFENSE MODERNIZATION AND PROTOTYPING	115,443	96,943
Program increase - emerging capabilities technology development hypersonics modeling and simulation center of excellence		4,600
Transfer from p721, Conceptual Prototyping to support DoD Modernization Priorities, to line 106, for RDER projects only		-34,100
Program increase - open source intelligence		3,000
Program increase - ship-based multi-sensor prototype development and demonstration		8,000
43 DEFENSE INNOVATION UNIT (DIU)	31,873	26,849
Unjustified increase		-5,024
44 TECHNOLOGY INNOVATION	54,433	39,933
Unjustified growth		-14,500
DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM		
50 PROGRAM	134,022	255,667
Project increase - cybersecurity manufacturing innovation park		1,000
Project increase - automation engineering technology program		1,981
Project increase - El Paso Makes contract support for El Paso manufacturers		964
Program increase		9,000
Program increase - difficult-to-copy manufacturing		7,000
Program increase - certification-based workforce training programs for manufacturing jobs of the future		6,200
Program increase - silicon based lasers		10,000
Program increase - carbon composites for hypersonics		3,000
Program increase - high temperature carbon composites manufacturing		3,000
Program increase - hypersonic enabling additive manufacturing		10,000
Program increase - hypersonic thermal management research		5,000
Program increase - advanced manufacturing		2,000
Program increase - advanced materials and materials manufacturing processes		6,000
Program increase - high performance computing - enabled advanced manufacturing		25,000
Program increase - domestic textile manufacturing		7,500
Program increase - data analytics and visualization system		12,000
Program increase - natural gas pipeline pilot study		5,000
Program increase - virtual reality-enabled smart installation experimentation		5,000
Program increase - advanced robotics and automation training		2,000
51 MANUFACTURING TECHNOLOGY PROGRAM	37,543	83,543
Program increase - steel performance initiative		10,000
Program increase - supply chain for readiness and sustainment		8,000
Program increase - rare earth recovery technology		2,000
Program increase - conversion of titanium scrap		5,000
Program increase - graphite materials		9,000
Program increase - nanostructured iron nitride permanent magnets		7,000
Program increase - PFAS compounds in food packaging materials research		3,000
Program increase - modeling and simulation competition		2,000

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R-1	Budget Request	Final Bill
54 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	51,863	91,863
Program increase - PFAS remediation and disposal technology		15,000
Program increase - AFFF replacement, disposal, and cleanup technology		15,000
Program increase		10,000
MICROELECTRONICS TECHNOLOGY DEVELOPMENT AND		
55 SUPPORT	160,821	209,821
Program increase - qualified discrete parts		5,000
Program increase - GaN-on-Si RF Front-end		30,000
Program increase - on-shore test site		9,000
Program increase - silicon carbide applications		5,000
57 ADVANCED ELECTRONICS TECHNOLOGIES	116,716	140,716
Program increase - ERI 2.0		24,000
59 NETWORK-CENTRIC WARFARE TECHNOLOGY	584,771	655,771
Program increase - deployable surveillance systems		21,000
Program increase - Assault Breaker II acceleration		50,000
65 HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	107,397	83,497
Additional HELSI directed energy system excess to Phase II requirement		-23,900
66 TEST & EVALUATION SCIENCE & TECHNOLOGY	267,161	465,161
Unjustified growth		-10,000
Program increase - space testing facilities		10,000
Program increase - lab and test range upgrades - space		33,000
Program increase - advancements to large energy national shock tunnels		20,000
Program increase - lab and test range upgrades - electromagnetic spectrum		30,000
Program increase - lab and test range upgrades - directed energy		11,000
Program increase - lab and test range upgrades - targets		41,000
Program increase - improving capacity hypersonics flight tests		63,000
67 NATIONAL SECURITY INNOVATION NETWORK	21,270	36,270
Program increase		10,000
Program increase - national security innovation network		5,000
68 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT	74,300	108,900
Program increase - advanced thermal systems for directed energy		11,600
Program increase - TRISO advanced nuclear fuel		10,000
Program increase - climate programs		13,000
74 SOF ADVANCED TECHNOLOGY DEVELOPMENT	93,415	112,415
Project increase - assessing and tracking tactical forces initiative		4,000
Project increase - identity threat mitigation and force protection initiative		15,000
ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION		
79 PROGRAM	71,429	123,139
Program increase - PFAS remediation and disposal technology		28,710
Program increase - AFFF replacement, disposal, and cleanup technology		5,000
Program increase - PFAS destruction technologies		15,000
Program increase - sustainable technology evaluation and demonstration program		3,000

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R-1	Budget Request	Final Bill
80 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	277,949	213,382
Layered homeland defense lack of requirement		-64,567
81 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	745,144	725,028
Layered homeland defense lack of requirement		-9,997
Increment 9 unjustified cost growth		-10,119
82 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAMS	129,445	133,945
Program increase - development of medical countermeasures against novel entities (DOMANE)		4,500
83 BALLISTIC MISSILE DEFENSE SENSORS	224,750	254,962
Program increase - cybersecurity		3,012
Program increase - HWIL and digital modeling capabilities for IMTP		27,200
84 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS	595,301	623,644
Layered homeland defense lack of requirement		-16,487
Program increase - cybersecurity		25,317
Program increase - cybersecurity engineering		19,513
86 AEGIS BMD	732,512	639,549
Layered homeland defense lack of requirement		-98,963
Program increase - lightweight telescope for advanced AEGIS interceptor		6,000
87 BALLISTIC MISSILE DEFENSE C2BMC	603,448	564,946
Layered homeland defense lack of requirement		-44,978
Program increase - cybersecurity		2,000
Program increase - JADC2 interface		4,476
93 BMD TESTS	362,906	389,156
Program increase - test infrastructure improvements		26,250
94 BMD TARGETS	553,334	560,478
Layered homeland defense lack of requirement		-9,127
FTM-30 delay		-2,624
FTM-42 delay		-264
FTT-25 delay		-5,841
Program increase - architecture reactive target simulation development		20,000
Program increase - missile defense system architecture integration and analysis center prototype		5,000
NEXT GENERATION INFORMATION COMMUNICATIONS		
97 TECHNOLOGY (5G)	374,665	337,665
Tranche 2 growth without transition plans		-32,000
External engagement - unjustified and excess growth		-5,000
99 GUAM DEFENSE DEVELOPMENT	78,300	112,400
Delayed architecture submission		-5,900
Program increase - Guam Defense System acceleration		40,000

130L

R-1	Budget Request	Final Bill
100 TECHNOLOGY MATURATION INITIATIVES	0	39,200
Program increase - directed energy		33,200
Program increase - diode pumped alkali laser		6,000
103 HYPERSONIC DEFENSE	247,931	287,796
Program increase - partnered flight test participation		18,000
Program increase - engineering enablers		11,865
Program increase - disruptive technologies for future architectures		10,000
104 ADVANCED INNOVATIVE TECHNOLOGIES	716,456	779,456
Program increase - pele mobile nuclear microreactor		60,000
Program increase - predictive autonomous navigational routing system phase II		3,000
105 TRUSTED & ASSURED MICROELECTRONICS	509,195	705,695
Program increase - radiation-hardened fully-depleted silicon-on-insulator microelectronics		18,000
Program increase - GaN and GaAs RFIC technology		25,000
Program increase - advanced node radiation-hardened fully-depleted silicon-on-insulator technology		43,500
Program increase - trusted artificial intelligence		10,000
Program increase - design acceleration		100,000
Joint Federated Assurance Center	[9,000]	[9,000]
Foundry	[45,000]	[45,000]
Secure design and quantifiable assurance development	[243,195]	[243,195]
Access to advanced packaging and testing - development	[112,600]	[112,600]
Address DoD unique needs especially radiation hardening - development	[82,700]	[82,700]
Create a resilient and robust microelectronics pipeline - development	[16,700]	[16,700]
106 RAPID PROTOTYPING PROGRAM	103,575	137,675
Transfer from line 42, p721, for RDER projects only		34,100
107 DEFENSE INNOVATION UNIT (DIU) PROTOTYPING	11,213	16,213
Program increase - long duration energy storage, including lithium batteries		5,000
DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON		
108 DEVELOPMENT	2,778	7,778
Program increase - unmanned traffic management		5,000
111 HOMELAND DEFENSE RADAR - HAWAII	0	75,000
Program increase - Homeland defense radar - Hawaii		75,000
116 IMPROVED HOMELAND DEFENSE INTERCEPTORS	926,125	884,125
Next generation interceptor funds phasing		-42,000
118 AEGIS BMD TEST	117,055	111,206
Layered homeland defense lack of requirement		-5,849

(130M)

R-1	Budget Request	Final Bill
126 SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	636,179	1,204,179
Transfer SDA Tranche 1 satellite cost savings to SDA Tranche 1 launch integration		-20,000
Transfer SDA Tranche 1 satellite cost savings to P,DW line 48 for SDA NSSL Tranche 1 launch		-12,000
Transfer from SDA Tranche 1 satellite cost savings to SDA Tranche 1 launch integration		20,000
Program increase - laser communication router demonstration system		12,000
Program increase - space networking center		18,000
Program increase - INDOPACOM missile tracking demonstration		550,000
132 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	9,345	21,345
Program increase - cyber resilience and analysis capability for installation and missile resiliency		12,000
144 TRUSTED & ASSURED MICROELECTRONICS	113,895	113,895
Foundry	[4,000]	[4,000]
Secure design and quantifiable assurance demonstration	[47,298]	[47,298]
Access to advanced packaging and testing - demonstration	[41,797]	[41,797]
Address DoD unique needs especially radiation hardening - demonstration	[20,800]	[20,800]
154 CENTRAL TEST & EVAL INVESTMENT DEVELOPMENT	550,140	994,618
Program increase - hypersonic test facilities		29,500
Program increase - AESA radars for test infrastructure		200,000
Program increase - C-band and X-band decoy systems for test infrastructure		40,000
Program increase - lab and test range upgrades - electromagnetic spectrum		105,478
Program increase - lab and test range upgrades - hypersonics		36,000
Program increase - lab and test range upgrades - directed energy		11,000
Program increase - lab and test range upgrades - targets		18,000
Program increase - lab and test range upgrades - telemetry extension SATCOM relay		4,500
160 CLASSIFIED PROGRAM USD(P)	0	108,112
Classified adjustment		108,112
165 GENERAL SUPPORT TO USD (INTELLIGENCE)	1,952	10,452
Program increase - applied research laboratory for intelligence and security		8,500
166 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	110,503	115,503
Program increase - biological weapons testing		5,000
173 MAINTAINING TECHNOLOGY ADVANTAGE	25,889	26,889
Program increase - securing American science and technology program		1,000
174 DEFENSE TECHNOLOGY ANALYSIS	39,774	35,274
Excess growth		-7,500
Program increase - technology and transition enhancement and acceleration		3,000

130N

R-1	Budget Request	Final Bill
R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	18,762	21,762
Program increase - implementation of the Independent Review Commission on Sexual Assault in the Military		3,000
180 BUDGET AND PROGRAM ASSESSMENTS	15,438	13,994
Lack of congressional support		-1,444
181 ODNA TECHNOLOGY AND RESOURCE ANALYSIS	2,897	4,897
Program increase - rapidly scalable resilient communications		2,000
203 JOINT ARTIFICIAL INTELLIGENCE	10,033	148,447
Transfer from line 272		186,639
Transfer to OMDW, line 4GT9 for proper execution - responsible AI (RAI)		-4,250
Transfer to OMDW, line 4GT9 for proper execution - strategy and policy		-4,775
Transfer to OMDW, line 4GT9 for proper execution - JCF/infrastructure		-19,800
Transfer to OMDW, line 4GT9 for proper execution - PB&A		-750
Program adjustment - gargoye expansion		-9,150
Program adjustment - ceres duplication		-5,500
Program adjustment - horae duplication		-4,000
206 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT	58,189	335,739
Project increase - systems engineering technician education initiative		550
Program increase		10,000
Program increase - digital thread manufacturing demonstration		8,000
Program increase - heavy rare earth elements program		80,000
Program increase - rare earth separation technologies		4,000
Program increase - career and technical education pilot		10,000
Program increase - digital engineering enabled workforce development		7,000
Program increase - enhanced digital capabilities		7,000
Program increase - ruggedized transceivers		10,000
Program increase - freeze dried plasma		10,000
Program increase - submarine workforce development		20,000
Program increase - resilient manufacturing ecosystem		2,500
Program increase - lead-free electronics		7,500
Program increase - precision optics manufacturing		4,000
Program increase - machine tooling and advanced manufacturing		20,000
Program increase - metal-organic frameworks		7,500
Program increase - weldable ultra hard armor		3,000
Program increase - pilot mask technology		5,000
Program increase - advanced headborne systems manufacturing		7,500
Program increase - automated textile manufacturing		10,000
Program increase - carbon/carbon industrial base enhancement		6,000
Program increase - defense supply chain enhancement		10,000
Program increase - industrial skills initiative		10,000
Program increase - interdisciplinary center for advanced manufacturing		10,000
Program increase - rare earth elements and critical minerals recovery technique demonstration		3,000
Program increase - accelerated training in defense manufacturing		5,000
219 INFORMATION SYSTEMS SECURITY PROGRAM	49,191	69,191
Program increase - center for academic excellence		20,000

1300

R-1	Budget Request	Final Bill
220 INFORMATION SYSTEMS SECURITY PROGRAM	423,745	447,745
Program increase - cyber activities at senior military colleges		24,000
246 INSIDER THREAT	0	3,000
Program increase		3,000
256 PACIFIC DISASTER CENTERS	1,799	5,799
Program increase - global water security center		4,000
259 MQ-9 UAV	19,065	63,065
Program increase - speed loader agile pod		10,000
Program increase - self protection pods		34,000
SPECIAL OPERATIONS INTELLIGENCE SYSTEMS		
262 DEVELOPMENT	32,766	30,399
MMP program decrease		-2,367
263 SOF OPERATIONAL ENHANCEMENTS	145,830	179,230
Program increase - classified adjustment		12,000
Program increase - AISUM		21,400
264 WARRIOR SYSTEMS	78,592	125,473
Program increase - special operations fused global data analytics and visualization		8,000
Program increase - software-defined radio waveforms		10,000
Program increase - maritime scalable effects acceleration		4,211
Program increase - various effects launcher capability		16,000
Program increase - cUAS		8,670
265 SPECIAL PROGRAMS	6,486	10,486
Program increase - overmatch visual augmentation		4,000
268 SOF MARITIME SYSTEMS	58,430	62,630
Program increase - diver propulsion		4,200
270 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	10,990	15,990
Program increase - carbon fiber and graphitic foam		5,000
272 JOINT ARTIFICIAL INTELLIGENCE	186,639	0
Transfer to line 203 for lack of budget activity 08 justification		-186,639
999 CLASSIFIED PROGRAMS	5,208,029	5,434,289
Classified adjustment		226,260

130 P

RAPID DEFENSE EXPERIMENTATION RESERVE

It is understood that the Secretary of Defense plans to request funds under a new “Rapid Defense Experimentation Reserve” (RDER) budget line in the Research, Development, Test and Evaluation, Defense-Wide (RDTE,DW) account in future budget submissions for prototyping and experimentation as part of a campaign of learning, and to close the “valley of death”. Projects funded under the RDER program would facilitate exploration and transition of technologies to full adoption by the Services and enable more rapid modernization.

The agreement supports this concept in principle. However, it is noted that the RDTE,DW account already contains several budget lines for programs intended for such purposes, to include programs to bridge the valley of death; support high-priority, mission-aligned prototyping; address joint warfighting operational gaps; and transition technologies. Further, it is noted that these budget lines contain significant funding flexibility in the year of execution. Therefore, the establishment of the new RDER program should be accompanied by a critical review of these programs and projects, including, but not limited to, the Defense Modernization and Prototyping Program, the Joint Capability Technology Program, and the Rapid Prototyping Program, to ensure that funds support direct warfighter needs.

The agreement realigns some such duplicate funding only for the RDER program in fiscal year 2022, as detailed in the table of Explanation of Project Level Adjustments accompanying this section. The Deputy Secretary of Defense is directed to review the scope and purpose of existing prototyping, experimentation, and demonstration programs funded within RDTE,DW to avoid redundancy and overlap with RDER, and to recommend adjustments to funding streams and management structures with the fiscal year 2023 President’s budget request.

COMMERCIAL SATELLITE IMAGERY

The availability and value of high-quality commercial satellite imagery to support a wide range of national security applications, including intelligence, military operations, disaster relief and response, and scientific research is increasing rapidly. However, there is concern that the federal government is not adequately leveraging its buying power to ensure the best value and is not minimizing the redundancy and duplication of purchases across all departments, agencies, and offices, including government-sponsored activities at non-profit organizations and academic institutions.

Therefore, the agreement directs the Comptroller General to provide a report to the congressional defense committees, not later than 180 days after the enactment of this Act, with an inventory of contracts for commercial imagery products and Services across the national security community; a determination of the effectiveness of coordination on procurements for these products and Services; an identification of any areas where there is duplication or redundant procurements; and recommendations on actions to improve the coordination, efficiency, and effectiveness of procurements for commercial satellite imagery and related Services.

SUPPLY CHAIN RISK MANAGEMENT

Sections 845 and 847 of the National Defense Authorization Act for fiscal year 2020 require the Department of Defense to use technology and analytic tools to expand its efforts to identify, mitigate, and monitor supply chain risks, including foreign ownership, control, and influence (FOCI) across the classified and unclassified defense industrial base. The Defense Counterintelligence and Security Agency's (DCSA's) Critical Technology Protection Directorate supports the Department's efforts to comply with these new requirements for protecting supply chains aimed at further reducing defense industrial base risks.

In addition, the agreement directs the Under Secretary of Defense for Intelligence and Security to provide a report to the House and Senate Appropriations Committees not later than 60 days after the enactment of this Act that enumerates and discusses the distinct analytic tools and innovative technological enhancements in which the DCSA is investing to assess, mitigate, and continuously monitor FOCI in Department of Defense contracts and subcontracts.

SPACE DEVELOPMENT AGENCY UNITED STATES INDO-PACIFIC COMMAND

MISSILE TRACKING DEMONSTRATION

The fiscal year 2022 President's budget request includes \$882,887,000 in the Research, Development, Test and Evaluation, Defense-Wide and Procurement, Defense-Wide accounts to develop, integrate, test, and launch 28 transport and tracking satellites as part of the Space Development Agency's (SDA) Tranche 0 capability acquisition. Further, the budget request includes funds to initiate development of SDA's Tranche 1 capability to begin filling out the proliferated National Defense Space Architecture (NDSA). It is noted that subsequent to the budget submission, SDA changed the launch strategy for Tranche 1 from a "delivery on orbit" to using the National Security Space Launch (NSSL) Phase 2 contract. This revised approach is supported and adjustments are recommended only to reflect that revised launch strategy for Tranche 1 consistent with previous congressional direction, as detailed in the table of Explanation of Project Level adjustments accompanying this section. It is noted that any change to this revised launch strategy for Tranche 1 is subject to the criteria contained under the heading "National Security Space Launch" included in the "Procurement, Space Force" section of this joint explanatory statement.

It is understood that the U.S. Indo-Pacific Command (USINDOPACOM) has a need for additional wide and medium field of view satellites (W/MFOV) that are not

included in Tranche 0 or Tranche 1 of the NDSA. These satellites provide intelligence and warning, tracking, and targeting of missile threats. The agreement includes \$550,000,000 only for such a satellite demonstration for USINDOPACOM, to be managed and executed only by SDA. The Director, SDA is directed to provide to the congressional defense committees an updated cost estimate to address USINDOPACOM's W/MFOV requirements, to include an acquisition and contract strategy not later than 30 days after the enactment of this Act. Direction regarding the procurement of launch Services included elsewhere in this statement under the heading "National Security Space Launch" shall also apply to these funds.

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY ASSAULT BREAKER II

The fiscal year 2022 President's budget request includes \$51,154,000 for DARPA's Assault Breaker II (AB II) initiative. The agreement includes an additional \$50,000,000 only to accelerate AB II development in the U.S. Indo-Pacific Command, increase the pace of experiments, and enhance the modeling and simulation environment. Further direction with respect to AB II is included the classified annex accompanying this Act.

DARPA HYPERSONICS AND SPACE RISK REDUCTION

The fiscal year 2022 President's budget request includes \$121,067,000 for DARPA to continue risk reduction, development, and testing of hypersonics weapons and space capabilities, to include the Hypersonic Air-Breathing Weapon Concept, Tactical Boost Glide, Blackjack, and Robotic Servicing of Geosynchronous Satellites. The agreement includes an additional \$100,000,000, only for these programs in Research, Development, Test and Evaluation, Defense-Wide program elements 0603286E and 0603287E. It is directed that none of these additional funds may be obligated or expended until 60 days

after the Director of DARPA, in coordination with the respective transition service leads, briefs the congressional defense committees on a spend plan and schedule for these funds, to include partner funding and transition plans.

DARPA ELECTRONICS RESURGENCE INITIATIVE 2.0

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

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE PROGRAM ELEMENT STRUCTURE

The fiscal year 2022 President's budget request proposes the consolidation of several smaller budget lines/projects into larger budget lines, and proposes substantial growth for several budget lines that contain significant internal funding execution flexibility. It is noted that this particularly impacts the Defense Threat Reduction Agency and Chemical Biological Defense Program budget lines. Given the critical nature of these agencies' missions, these respective budget requests are supported in the

agreement. However, the Under Secretary of Defense (Comptroller) and the Director of Cost Assessment and Program Evaluation are directed to review the program element structure of the Research, Development, Test and Evaluation, Defense-Wide appropriations account to inform the fiscal year 2023 President's budget request.

CYBER EDUCATION DIVERSITY INITIATIVE

The Secretary of Defense is directed to provide to the congressional defense committees with submission of the fiscal year 2023 President's budget request, a report on the scope, scale, and impact of the Cyber Education Diversity Initiative. The report should detail the number and nature of participating institutions, funds expended in support of the initiative, and an initial evaluation of the impact on cyber education.

SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM) PROGRAMS

The agreement includes an additional \$14,000,000 for STEM programs. The Secretary of Defense is encouraged to partner with organizations with an established history of providing scholarships to students pursuing an education in these fields.

CIVIL SOCIETY

The agreement includes \$15,000,000 for civil society programs. The Secretary of Defense is directed to work with universities with ethics and public affairs programs to promote civil society education and outreach, including among military and non-military communities.

HYPERSONIC TESTING FACILITY REACTIVATION

The agreement provides \$29,500,000 in Research, Development, Test and Evaluation, Defense-Wide for hypersonic test facilities to carry out the activities

necessary for the reactivation of previously decommissioned synthetic air hypersonic propulsion test facilities, including expenses necessary for the relocation of affected NASA capabilities or facilities.

BIOINDUSTRIAL CAPABILITIES AND MANUFACTURING TECHNOLOGIES

There continues to be need for U.S. biotechnology innovation and securing the domestic bioindustrial base. A Bioindustrial Manufacturing Innovation Institute has been established to provide a reliable American source of bioindustrial capabilities and manufacturing technologies. It is noted that the Department remains committed to this effort and that Congress has reaffirmed support for the effort to accelerate biotechnology modernization by providing funding for the institute. The agreement encourages the Under Secretary of Defense (Research and Engineering) to work closely with the partners involved and provide a briefing to the House and Senate Appropriations Committees, Subcommittees on Defense not later than 45 days after enactment of this Act with details of specific capabilities envisioned for the institute, along with a timeline and cost projection in order to deliver those capabilities.

OPERATIONAL TEST AND EVALUATION, DEFENSE

The agreement provides \$276,591,000 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	105,394	105,394
LIVE FIRE TESTING	68,549	103,549
Program increase - lab and test range upgrades - space		9,000
Program increase - lab and test range upgrades - electromagnetic spectrum		13,000
Program increase - lab and test range upgrades - hypersonics		7,000
Program increase - lab and test range upgrades - targets		6,000
OPERATIONAL TEST ACTIVITIES AND ANALYSIS	42,648	67,648
Program increase - lab and test range upgrades - directed energy		12,000
Program increase - lab and test range upgrades - targets		13,000
TOTAL, OPERATIONAL TEST & EVALUATION, DEFENSE	216,591	276,591

CERTIFICATION OF FUNDING FOR TEST INFRASTRUCTURE AND TEST EVENT RESOURCES

It is concerning that funding required for test and evaluation infrastructure, assets, and personnel is routinely placed at risk by the Department of Defense and the Services during the budget planning and formulation process. Therefore, the Director of Operational Test and Evaluation, is directed to assess and certify to the congressional defense committees with submission of the fiscal year 2023 President's budget request that the Department of Defense's and Services' test infrastructure, assets, and personnel are fully funded in the budget year and the future years defense program to support agreed-upon Test and Evaluation Master Plans for major defense acquisition programs and test assessments for prototyping programs. Further, the Director of Operational Test

and Evaluation, is directed to identify – where applicable – shortfalls by service and program.

TITLE V - REVOLVING AND MANAGEMENT FUNDS

The agreement provides \$2,017,000,000 in Title V, Revolving and Management Funds.

DEFENSE WORKING CAPITAL FUNDS

The agreement provides \$2,017,000,000 for Defense Working Capital Funds, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
WORKING CAPITAL FUND, ARMY	384,711	499,711
Industrial Operations	26,935	26,935
Program increase - Arsenals Initiative		115,000
Supply Management	357,776	357,776
WORKING CAPITAL FUND, NAVY	150,000	150,000
Supply Management	150,000	150,000
WORKING CAPITAL FUND, AIR FORCE	77,453	77,453
Supply Management	77,453	77,453
WORKING CAPITAL FUND, DEFENSE-WIDE	127,765	127,765
Energy Management	40,000	40,000
Supply Chain Management	87,765	87,765
DEFENSE WORKING CAPITAL FUND, DECA	1,162,071	1,162,071
TOTAL, DEFENSE WORKING CAPITAL FUNDS	1,902,000	2,017,000

ADVANCE BILLING LIMITATION FOR WORKING CAPITAL FUNDS

The agreement includes a general provision that doubles the allowable amount of advance billing of a customer of a working capital fund for fiscal year 2022 only. The

Secretary of Defense is encouraged to work with the congressional defense committees to seek an exception to the dollar limitation imposed by section 2208(1)(3) of title 10 in the event of a declaration of a national emergency by the President.

TITLE VI - OTHER DEPARTMENT OF DEFENSE PROGRAMS

The agreement provides \$39,808,546,000 in Title VI, Other Department of Defense Programs, as follows:

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

INSERT (142A)

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL

TITLE VI		
OTHER DEPARTMENT OF DEFENSE PROGRAMS		
Defense Health Program		
Operation and maintenance.....	34,182,719	33,957,986
Procurement.....	779,008	758,708
Research, development, test and evaluation.....	630,680	2,633,488
	-----	-----
Total, Defense Health Program 1/.....	35,592,407	37,350,182
Chemical Agents and Munitions Destruction, Defense:		
Operation and maintenance.....	93,121	93,121
Procurement.....	---	---
Research, development, test and evaluation.....	1,001,231	1,001,231
	-----	-----
Total, Chemical Agents 2/.....	1,094,352	1,094,352
Drug Interdiction and Counter-Drug Activities, Defense1/.....	821,908	925,649
Office of the Inspector General 1/.....	438,363	438,363
	=====	=====
Total, title VI, Other Department of Defense Programs.....	37,947,030	39,808,546
	=====	=====

142A

DEFENSE HEALTH PROGRAM

The agreement provides \$37,350,182,000 for the Defense Health Program, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (143A-C)

~~(INSERT PROJECT LEVEL TABLE)~~

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
DEFENSE HEALTH PROGRAM		
OPERATION AND MAINTENANCE		
10 IN-HOUSE CARE.....	9,720,004	9,566,792
20 PRIVATE SECTOR CARE.....	18,092,679	17,977,979
30 CONSOLIDATED HEALTH SUPPORT.....	1,541,122	1,514,397
40 INFORMATION MANAGEMENT.....	2,233,677	2,231,149
50 MANAGEMENT ACTIVITIES.....	335,138	333,138
60 EDUCATION AND TRAINING.....	333,234	340,734
70 BASE OPERATIONS/COMMUNICATIONS.....	1,926,865	1,993,797
SUBTOTAL, OPERATION AND MAINTENANCE.....	34,182,719	33,957,986
PROCUREMENT		
150 INITIAL OUTFITTING.....	20,926	20,926
160 REPLACEMENT AND MODERNIZATION.....	250,366	250,366
180 MILITARY HEALTH SYSTEM - DESKTOP TO DATACENTER.....	72,302	72,302
180 DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION.....	435,414	415,114
SUBTOTAL, PROCUREMENT.....	779,008	758,708
RESEARCH DEVELOPMENT TEST AND EVALUATION		
80 RESEARCH.....	9,091	9,091
90 EXPLORATORY DEVELOPMENT.....	75,463	85,463
100 ADVANCED DEVELOPMENT.....	235,556	345,556
110 DEMONSTRATION/VALIDATION.....	142,252	176,860
120 ENGINEERING DEVELOPMENT.....	101,054	101,054
130 MANAGEMENT AND SUPPORT.....	49,645	49,645
140 CAPABILITIES ENHANCEMENT.....	17,619	17,619
150 UNDISTRIBUTED MEDICAL RESEARCH.....	---	1,848,200
SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION	630,680	2,633,488
=====		
TOTAL, DEFENSE HEALTH PROGRAM.....	35,592,407	37,350,182
=====		

143A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

	Budget Request	Final Bill
OPERATION AND MAINTENANCE		
IN-HOUSE CARE	9,720,004	9,566,792
Unjustified cost growth		-27,800
Excess funding for capability replacement		-104,462
Medical care contracts excess growth		-25,950
Program increase - telehealth for military children and families		5,000
PRIVATE SECTOR CARE	18,092,679	17,977,979
Unjustified cost growth		-90,900
Unjustified support services growth		-23,800
CONSOLIDATED HEALTH SUPPORT	1,541,122	1,514,397
Medical care contracts excess growth		-22,325
Unjustified cost growth		-21,900
Program increase - anomalous health incidents care capacity		3,500
Program increase - therapeutic service dog training program		14,000
INFORMATION MANAGEMENT	2,233,677	2,231,149
DHMSM excess growth		-2,528
MANAGEMENT ACTIVITIES	335,138	333,138
Equipment purchases excess growth		-2,000
EDUCATION AND TRAINING	333,234	340,734
Program increase - specialized medical pilot program		2,500
Program increase - Uniformed Services University of the Health Sciences fetal alcohol spectrum disorders prevention and clinical guidelines research		5,000
BASE OPERATIONS AND COMMUNICATIONS	1,926,865	1,993,797
Program increase - FSRM		78,000
Equipment purchases excess growth		-11,068
TOTAL, OPERATION AND MAINTENANCE	34,182,719	33,957,986
PROCUREMENT		
Excess growth		-20,300
TOTAL, PROCUREMENT	779,008	758,708
RESEARCH AND DEVELOPMENT		
Program increase - Armed Forces Institute of Regenerative Medicine III		10,000
Program increase - clinical research		10,000
Program increase - Uniformed Services University of the Health Sciences military surgical teams simulation technology		5,000
Program increase - Uniformed Services University of the Health Sciences multi-domain operations		35,000

143B

	Budget Request	Final Bill
Program increase - GDF - medical products support and advanced concept development		5,608
Program increase - NDMS medical surge pilot		15,000
Program increase - joint civilian-medical surge facility		14,000
Program increase - brain injury and disease prevention research		60,000
Restore core funding reduction		312,200
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		130,000
Peer-reviewed Duchenne muscular dystrophy research		10,000
Peer-reviewed epilepsy research		12,000
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		40,000
Peer-reviewed multiple sclerosis research		20,000
Peer-reviewed orthopedic research		30,000
Peer-reviewed ovarian cancer research		45,000
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 spinal cord research		40,000
Peer-reviewed tickborne disease research		7,000
Peer-reviewed toxic exposures research		30,000
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		10,000
HIV/AIDS program increase		18,000
Joint warfighter medical research		40,000
Orthotics and prosthetics outcome research		20,000
Chronic pain management		15,000
Trauma clinical research program		10,000
Combat readiness medical research		10,000
TOTAL, RESEARCH AND DEVELOPMENT	630,680	2,633,488

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REPROGRAMMING GUIDANCE FOR THE DEFENSE HEALTH PROGRAM

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 they occurred from the Private Sector Care budget sub-activity to any other budget sub-activity in fiscal year 2021.

The Assistant Secretary of Defense for 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 for Health Affairs is directed to submit a detailed spend plan for any fiscal year 2021 designated carryover funds to the congressional defense committees not less than 30 days prior to executing the carryover funds.

PEER-REVIEWED CANCER RESEARCH PROGRAM

The agreement provides \$130,000,000 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: 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; myeloma; neuroblastoma; pediatric brain tumors; pediatric, adolescent, and young adult cancers; sarcoma; stomach cancer; thyroid cancer; and Von Hippel-Lindau syndrome malignancies (excluding cancers of the kidney and pancreas).

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 117-88 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, cardiomyopathy, congenital heart disease, diabetes, dystonia, eating disorders, viral diseases, endometriosis, epidermolysis bullosa, familial hypercholesterolemia, fibrous dysplasia, focal segmental glomerulosclerosis, food allergies, Fragile X, frontotemporal degeneration, Guillain-Barre syndrome, hemorrhage control, hepatitis B, hydrocephalus, hypercholesterolemia, hypertension, inflammatory bowel diseases, interstitial cystitis, malaria, mitochondrial disease, myalgic encephalomyelitis/chronic fatigue syndrome, myotonic dystrophy, nephrotic syndrome, 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, Rett syndrome, rheumatoid arthritis, sleep disorders and restriction, suicide prevention, sustained release drug delivery, trauma, vascular malformations, women's heart disease, Ehlers-Danlos syndrome, pancreatitis, musculoskeletal disorders related to acute and chronic bone conditions and injuries, and Friedreich's ataxia. 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 of 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 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.

JOINT WARFIGHTER MEDICAL RESEARCH PROGRAM

The Assistant Secretary of Defense for 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 for 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 for 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.

DEPARTMENT OF DEFENSE CONTROLLED ACCESS TO HEALTH INFORMATION

The Assistant Secretary of Defense for Health Affairs is directed to provide a report, not later than 180 days after the enactment of this Act, to the congressional defense committees, detailing the implementation of Office of Inspector General (OIG) recommendations related to effectively controlling access to health information of Department of Defense personnel. The report shall include any additional cybersecurity measures taken as a result of the OIG's findings.

MILITARY TREATMENT FACILITY TRANSITION

The agreement notes that the military departments continue to have a significant role in the administration of the military treatment facilities (MTF), especially the transition of more than 40 functional capabilities identified in the Defense Health Agency's (DHA) implementation plan that are wide-ranging, including capabilities like military personnel management, acquisitions, religious support services, clinical operations, and clinical quality. The agreement directs the Comptroller General to provide the congressional defense committees a report not later than 90 days after the enactment of this Act on the status of the transition of MTFs to the DHA. The report shall include (1) a review of functions at facilities that have already transitioned, including DHA's role or management and the administration support that the Services are providing and a timeline for that support to cease; (2) cost implications of the transition, including the Department's plan for maximizing efficiencies and reducing duplication; (3) the current and planned DHA staffing model; and (4) how the DHA will ensure that the Services' medical requirements are considered and met. The agreement further directs the Department to continue to provide any updates regarding the MTF transition directly to the congressional defense committees in a timely manner in order to facilitate appropriate congressional oversight.

REDUCTION OF MILITARY BILLETS

The agreement does not include funding requested in the fiscal year 2022 President's budget request for a reduction in military medical providers in order to increase the number of operational billets required for lethality. The Section 719 Report to Congress on Military Medical Reductions to Meet Operational Requirements was submitted in August 2021, and the agreement finds that questions and concerns remain, especially related to analysis of military medical manpower requirements, market

adequacy assumptions, and the ability to hire civilian or contract replacements. The agreement directs the Assistant Secretary of Defense for Health Affairs to brief the congressional defense committees not later than 60 days after the enactment of this Act on the Department's efforts to respond to reports about the quality and availability of civilian providers, along with other concerns raised in the May 2020 Government Accountability Office evaluation regarding the restructuring plan of military treatment facilities.

PEER-REVIEWED TOXIC EXPOSURES RESEARCH PROGRAM

The agreement notes the number of known and unknown potentially harmful substances that servicemembers are exposed to as part of their military service. Research linked to exposures through various congressionally directed medical research programs, including the Peer-Reviewed Neurotoxin Exposure Treatment Parkinson's Research Program, started in 1997 with a focus on dopaminergic neurons that result in Parkinson's disease. Since 2006, the Peer-Reviewed Gulf War Illness Research Program has also received congressionally directed funding to study the health impacts caused by deployment of warfighters during the Persian Gulf War. The agreement remains committed to helping veterans affected by Parkinson's disease, Gulf War illness, and others exposed to potentially toxic substances which result in multiple, diverse symptoms and health abnormalities.

Transitioning related research to a new, broader program, including neurotoxin exposure treatment research, research on Gulf War illness, exposures to burn pits, and other service-related exposures to potentially toxic chemicals and materials will allow the research community to improve scientific understanding and pathobiology from exposure, more efficiently assess comorbidities, and speed the development of treatments, cures, and preventions. Therefore, the agreement recommends \$30,000,000

for a peer-reviewed toxic exposures research program. The funds provided in this program are directed to be used to conduct research of clear scientific merit and direct relevance to neurotoxin exposure; Gulf War illness and its treatment; airborne hazards and burn pits; as well as toxic military exposures in general, including prophylactic medications, pesticides, organophosphates, toxic industrial chemicals, materials, metals, and minerals. The agreement directs the Director of Congressionally Directed Medical Research Programs, to ensure that the program is conducted using competitive selection and peer-review for the identification of research with the highest technical merit and military benefit. Further, the agreement directs that this program be coordinated with similar activities in the Department of Veterans Affairs. Collaborations between researchers at military or veteran institutions and non-military research institutions are encouraged to leverage the knowledge, infrastructure, and access to military and veteran populations. The inclusion of the toxic exposures research program shall not prohibit research in any other congressionally directed research program that may be associated with conditions or health abnormalities which may have been the result of toxic exposures.

CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

The agreement provides \$1,094,352,000 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	93,121	93,121
RESEARCH, DEVELOPMENT, TEST AND EVALUATION	1,001,231	1,001,231
TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE	1,094,352	1,094,352

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

The agreement provides \$925,649,000 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	593,250	579,750
Project 1387 insufficient budget justification		-8,500
Reduce duplicative efforts		-5,000
DRUG DEMAND REDUCTION PROGRAM	126,024	126,024
NATIONAL GUARD COUNTER-DRUG PROGRAM	96,970	194,211
Program increase		97,241
NATIONAL GUARD COUNTER-DRUG SCHOOLS	5,664	25,664
Program increase		20,000
TOTAL, DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE	821,908	925,649

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

The agreement provides \$194,211,000 for the National Guard Counter-Drug Program and an additional \$33,696,000 is included under Counter-Narcotics Support for operational support to the National Guard.

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 (DSCA) in the Operation and Maintenance, Defense-Wide (OM,DW) account. Any notification of funds execution submitted pursuant to 10 U.S.C. 284 shall identify any resources within the DSCA OM,DW account that are allocated for similar or related purposes.

The Secretary of Defense is directed to provide quarterly reports to the 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 2022 budget justification materials and other documentation supporting the fiscal year 2022 budget request.

OFFICE OF THE INSPECTOR GENERAL

The agreement provides \$438,363,000 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	435,918	435,918
PROCUREMENT	80	80
RESEARCH, DEVELOPMENT, TEST AND EVALUATION	2,365	2,365
TOTAL, OFFICE OF THE INSPECTOR GENERAL	438,363	438,363

QUARTERLY END STRENGTH AND EXECUTION REPORTS

The agreement directs the Department of Defense Inspector General 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 (FTE) as well as an estimate of fiscal year end strength and fiscal year FTE. 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.

The agreement does not include the directive under this heading in House Report 117-88 regarding assessment of the program to monitor, evaluate, and oversee funds appropriated under the heading Afghanistan Security Forces Fund.

TITLE VII - RELATED AGENCIES

The agreement provides \$1,101,100,000 in Title VII, Related Agencies, as follows:

~~(INSERT COMPUTER TABLE)~~

INSERT (156A)

(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).....	634,000	587,100
	=====	=====
Total, title VII, Related agencies.....	1,148,000	1,101,100
	=====	=====

(156A)

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, 2022.

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 \$587,100,000, a decrease of \$46,900,000 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:

The agreement includes a provision proposed by the House which provides for the general transfer authority of funds to other military functions.

The agreement modifies a provision which identifies tables as Explanation of Project Level Adjustments.

The agreement includes a provision proposed by the House which provides for the establishment of a baseline for application of reprogramming and transfer authorities for the current fiscal year.

The agreement modifies a provision regarding limitations and conditions on the use of funds made available in this Act to initiate multiyear procurement contracts. The House bill contained a similar provision.

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

The agreement modifies a provision for the transfer of funds appropriated in title III of this Act for the Department of Defense Pilot Mentor-Protege Program.

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

The agreement includes a provision for incentive payments authorized by section 504 of the Indian Financing Act of 1974 (25 U.S.C. 1544).

The agreement includes a provision to provide for the availability of funds for the mitigation of environmental impacts on Indian lands resulting from Department of Defense activities.

The agreement does not include a provision that establishes a minimum wage for the contractor workforce.

The agreement does not include a provision related to covered reports.

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 did not contain a similar provision.

The agreement modifies a provision to provide funding in the Army's Working Capital Fund to maintain competitive rates at the arsenals.

The agreement includes a provision which provides funding for the Civil Air Patrol Corporation.

The agreement modifies a provision that prohibits funding from being used to establish new Department of Defense Federally Funded Research and Development Centers with certain limitations.

The agreement includes a prohibition on funding being used for the procurement of ball and roller bearings other than those produced by a domestic source and of domestic origin.

The agreement modifies a provision providing appropriations for a National Defense Stockpile Transaction Fund for the acquisition and retention of certain critical materials.

The agreement retains a prohibition on the use of funds for the purchase or manufacture of a United States flag unless such flags are treated as covered items under section 2533a(b) of title 10, United States Code. The House bill contained a similar provision.

The agreement retains a provision that provides authority to use operation and maintenance appropriations to purchase items having an investment item unit cost of not more than \$250,000. The House bill contained a similar provision.

The agreement includes a provision proposed by the House to prohibit the use of funds in contravention of the First Amendment.

The agreement retains a provision that restricts any funding to be used for the retirement or divestiture of RQ-4 Global Hawk Block 40 aircraft and prohibits deactivation of the corresponding squadrons. The House bill contained no similar provision.

The agreement modifies a provision that provides authority to use operation and maintenance appropriations for the Asia Pacific Regional Initiative Program.

The agreement includes a provision proposed by the House that places certain limitations on the use of funds made available in this Act to establish field operating agencies.

The agreement retains a provision that places restrictions on converting to contractor performance an activity or function of the Department of Defense unless it meets certain guidelines provided. The House bill contained a similar provision.

(RESCISSIONS)

The agreement modifies a provision proposed by the House recommending rescissions and provides for the rescission of \$3,305,725,000. The rescissions agreed to are:

2020 Appropriations:

Missile Procurement, Army:

Stinger Mods5,000,000

Lethal Miniature Aerial Missile System1,953,000

Procurement of Weapons and Tracked Combat Vehicles, Army:

M240 Medium Machine Gun Mods4,500,000

Other Procurement, Army:

Bridge Supplemental Set.....13,000,000

Other Procurement, Navy:

Small and Medium UUV3,500,000

Aircraft Procurement, Air Force:

Combat Rescue Helicopter18,200,000

Target Drones.....	9,741,000
MQ-9 Reaper.....	1,000,000
B-1B.....	5,488,000
LAIRCM	30,000,000
F-15	14,984,000
F-22A	21,842,000
Increment 3.2B.....	2,000,000
C-130J Mods.....	6,097,000
C-135.....	12,592,000
E-4.....	13,341,000
MQ-9 Mods.....	14,000,000
Initial Spares/Repair Parts.....	4,200,000
Missile Procurement, Air Force:	
Small Diameter Bomb.....	40,000,000
Other Procurement, Air Force:	
ATCALS	3,000,000
Base Communication Infrastructure	20,000,000
Combat Training Ranges	15,000,000
2021 Appropriations:	
Operation and Maintenance, Defense-Wide:	
DSCA Security Cooperation.....	75,000,000
Coalition Support Funds	26,000,000
Afghanistan Security Forces Fund:	
Afghanistan Security Forces Fund.....	700,000,000
Counter-ISIS Train and Equip Fund:	
Counter-ISIS Train and Equip Fund.....	250,000,000
Aircraft Procurement, Army:	
AH-64 Apache Block IIIA (AP).....	5,000,000
Procurement of Weapons and Tracked Combat Vehicles, Army:	
M240 Medium Machine Gun Mods	4,533,000
Procurement of Ammunition, Army:	
Cartridges, Tank, 105mm and 120mm, All Types	37,500,000
Shoulder Launched Munitions, All Types.....	23,788,000
CAD/PAD, All Types	3,466,000
Other Procurement, Army:	
Joint Information Environment.....	3,177,000
Aircraft Procurement, Navy:	
V-22 (Medium Lift) AP	15,210,000
CH-53K.....	36,572,000

Weapons Procurement, Navy:	
Standard Missile.....	16,148,000
Drones and Decoys	19,956,000
Small Arms and Weapons.....	931,000
Procurement of Ammunition, Navy and Marine Corps:	
Pyrotechnic and Demolition	1,744,000
Mortars	3,450,000
Shipbuilding and Conversion, Navy:	
DDG-51 AP.....	130,000,000
Other Procurement, Navy:	
LHA/LHD Midlife	3,445,000
LCS MM Mission Modules	10,246,000
LCS In-Service Modification.....	35,634,000
Procurement, Marine Corps:	
Radio Systems.....	80,109,000
Aircraft Procurement, Air Force:	
F-15EX.....	76,856,000
KC-46A MDAP	88,170,000
MC-130J.....	57,400,000
MH-139A	194,016,000
Combat Rescue Helicopter	17,600,000
MQ-9 Reaper	20,000,000
B-52.....	9,100,000
A-10	39,000,000
F-16	16,187,000
F-22A	15,810,000
F-35 Mods	5,079,000
T-6.....	2,700,000
C-130.....	1,980,000
MQ-9 Mods.....	10,700,000
Initial Spares/Repair Parts.....	131,177,000
F-16 Post-Production Support	5,000,000
Procurement, Space Force:	
GPS III Follow-On.....	18,000,000
National Security Space Launch.....	17,700,000
Procurement of Ammunition, Air Force:	
JDAM.....	339,289,000
B61	12,400,000
Other Procurement, Air Force:	

Medium Tactical Vehicle.....	3,400,000
Combat Training Ranges	20,990,000
MEECN.....	15,000,000
Classified Adjustment.....	40,000,000
Research, Development, Test, and Evaluation, Army:	
Technology Maturation Initiatives.....	16,663,000
Infantry Support Weapons	14,200,000
Brilliant Anti-Armor Submunition	20,175,000
Weapons and Munitions – Eng Dev	3,913,000
Landmine Warfare/Barrier – Eng Dev	1,925,000
155mm Self-Propelled Howitzer Improvements	22,709,000
Research, Development, Test, and Evaluation, Navy:	
Next Generation Jammer, Increment II	51,500,000
Advanced Arresting Gear	4,000,000
JNT Standoff Weapon System.....	5,500,000
Cooperative Engagement Capability	7,022,000
Research, Development, Test, and Evaluation, Space Force:	
Next-Generation OPIR.....	100,000,000
Space Test and Training Range Development.....	2,000,000
Satellite Control Network	10,000,000
Ballistic Missile Defense Radars	8,500,000
Research, Development, Test, and Evaluation, Defense-Wide:	
Microelectronics Restructure, BA 4	14,451,000
Microelectronics Restructure, BA 5	8,216,000
DARPA	53,000,000
Classified Adjustment.....	33,050,000
No-Year Appropriations:	
Defense Working Capital Funds:	
Defense Counterintelligence and Security Agency	
Working Capital Fund.....	30,000,000

The agreement includes a provision proposed by the House to provide for reimbursement to the National Guard and reserve when members of the National Guard and reserve provide intelligence or counterintelligence support to the combatant commands, defense agencies, and joint intelligence activities.

The agreement includes a provision proposed by the House to provide funding for Red Cross and United Service Organizations grants.

The agreement includes a provision proposed by the House to provide funding for Sexual Assault Prevention and Response Programs.

The agreement retains language prohibiting the amendment or funding to separate, or to consolidate from within, the National Intelligence Program budget from the Department of Defense budget. The House bill contained a similar provision.

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

The agreement includes a new provision that provides funding to improve tactical artificial intelligence at the combatant commands.

The agreement retains a provision that provides for the funding of prior year shipbuilding cost increases. The House bill contained a similar provision.

The agreement includes a provision proposed by the House regarding contingency budget operations.

The agreement includes a new provision that provides funding available for transfer to various Department of Defense accounts for purposes of recruiting and training an artificial intelligence-literate acquisition workforce.

The agreement does not include a provision to prohibit the use of funds for the purpose of making remittances to the Department of Defense Acquisition Workforce Development Account, as the provision has been addressed in an authorization bill.

The agreement includes a provision proposed by the House prohibiting the use of funds to provide certain missile defense information to certain entities.

The agreement includes a provision proposed by the House on the use of funds in the Shipbuilding and Conversion, Navy account to purchase five used auxiliary vessels for the National Defense Reserve Fleet.

The agreement does not include a provision that revises economic assumptions.

The agreement does not include a provision related to the rapid prototyping fund.

The agreement does not include a provision that establishes a reporting requirement related to the National Instant Criminal Background Check System.

The agreement retains a provision that prohibits the use of funds to award a new TAO Fleet Oiler or FFG Frigate program contract for the acquisition of certain components unless those components are manufactured in the United States. The House bill contained a similar provision.

The agreement modifies a provision proposed by the House that prohibits funds for the development and design of certain future naval ships unless any contract specifies that all hull, mechanical, and electrical components are manufactured in the United States.

The agreement includes a provision proposed by the House regarding the prohibition on funds for the decommissioning of any Littoral Combat Ships.

The agreement includes a provision proposed by the House regarding a prohibition on the use of funds for gaming or entertainment that involves nude entertainers.

The agreement modifies a provision proposed by the House that makes funds available through the Office of Local Defense Community Cooperation 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 includes a provision proposed by the House providing guidance on the implementation of the Policy for Assisted Reproductive Services for the Benefit of Seriously or Severely Ill/Injured Active Duty Service Members.

The agreement retains a provision on the use of funds to modify two F-35 Joint Strike Fighters per variant to a test configuration. The House bill contained a similar provision.

The agreement does not include a provision proposed by the House regarding death gratuity payments.

The agreement does not include a provision proposed by the House regarding advanced billing for background investigations.

The agreement includes a provision proposed by the House regarding the prohibition of funds from being used to transfer the National Reconnaissance Office to the Space Force.

The agreement modifies a provision proposed by the House that requires the Secretary of Defense to make a certification prior to the transfer of any element to the Space Force.

The agreement includes a provision proposed by the House to prohibit funds to establish a field operating agency of the Space Force.

The agreement includes a new provision that provides the authority to exceed Working Capital Fund monetary limitations.

The agreement does not include a provision proposed by the House regarding the control and management of the budget for Cyber Mission Forces.

The agreement does not include a provision regarding fuel costs.

The bill modifies a provision proposed by the House to provide funds for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance for certain software pilot programs.

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

The agreement does not include a provision proposed by the House related to section 365 of H.R. 1280 of the 117th Congress.

The agreement includes a provision proposed by the House regarding the obligation of funds in anticipation of receipt of contributions from the Government of Kuwait.

The agreement includes a provision proposed by the House to require notification of the receipt of contributions from foreign governments.

The agreement retains a provision regarding the procurement of certain vehicles in the United States Central Command area. The House bill contained a similar provision.

The agreement does not include a provision proposed by the House that provides for the purchase of items of a particular investment unit cost from funding made available for operation and maintenance.

The agreement includes a provision proposed by the House regarding the prohibition on the use of funds with respect to Iraq in contravention of the War Powers Resolution.

The agreement includes a provision proposed by the House regarding a prohibition on the use of funds with respect to Syria in contravention of the War Powers Resolution.

The agreement includes a provision proposed by the House related to the use of force against Iran and North Korea.

The agreement modifies a prohibition proposed by the House on the establishment of permanent bases in Iraq or Afghanistan or United States control over Iraq or Syria oil resources.

The agreement does not include a provision proposed by the House regarding foreign bases.

The agreement does not include a provision proposed by the House regarding quarterly reports on the deployment of United States Armed Forces.

The agreement modifies a provision proposed by the House regarding a prohibition on the use of funding under certain headings to procure or transfer man-portable air defense systems.

The agreement does not include a provision proposed by the House regarding the transfer of aircraft to the Afghanistan Nation Security Forces.

The agreement does not include a provision proposed by the House regarding the Afghanistan Security Forces Fund.

The agreement does not include a provision proposed by the House regarding the training and equipment of the Afghanistan Security Forces Fund.

The agreement does not include a provision proposed by the House regarding the transport and safe passage of Afghans.

The agreement modifies a provision proposed by the House and provides funding for International Security Cooperation Programs.

The agreement modifies a provision proposed by the House that allows for funding appropriated to the Defense Security Cooperation Agency to be used to support coalition forces to counter the Islamic State of Iraq and Syria.

The agreement includes a provision proposed by the House to provide funding to reimburse certain countries for border security.

The agreement includes a provision proposed by the House to provide security assistance to the Government of Jordan.

The agreement modifies a provision to provide security assistance to Ukraine.

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

The agreement retains a provision to provide funding to the government of Israel for the procurement of the Iron Dome defense system. The House bill contained no similar provision.

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

The agreement does not include a provision proposed by the House that prohibits funds to support military operations against the Houthis in Yemen.

The agreement does not include a provision proposed by the House related to an integrated security cooperation strategy.

The agreement does not include a provision proposed by the House prohibiting the use of funds to operate the detention facility at United States Naval Station, Guantanamo Bay, Cuba.

The agreement does not include a provision proposed by the House related to the El Mozote massacre.

The agreement does not include a provision proposed by the House related to LED light bulbs.

The agreement includes a provision proposed by the House that prohibits the use of funds to support any activity conducted by or associated with the Wuhan Institute of Virology.

The agreement does not include a provision proposed by the House that repeals the 2001 Authorization for the Use of Military Force.

The agreement includes a new provision to prohibit the use of funds to transfer, release, or assist in the transfer or release to or within the United States certain detainees.

The agreement includes a new provision to prohibit the use of funds to transfer any individual detained at United States Naval Station Guantanamo Bay, Cuba, to the custody or control of the individual's country of origin or any other foreign country.

The agreement includes a new provision that prohibits the use of funds to construct, acquire, or modify any facility in the United States to house any individual detained at United States Naval Station Guantanamo Bay, Cuba.

The agreement includes a new provision which prohibits the use of funds to carry out the closure of the United States Naval Station Guantanamo Bay, Cuba.

The agreement includes a provision that amends section 165 of the Continuing Appropriations Act, 2022.

The agreement includes a provision that appropriates funding for the same purposes and under the same authorities and conditions as amounts made available in section 165(c) of the Continuing Appropriations Act, 2022.

The agreement includes a new provision amending the National Defense Authorization Act for Fiscal Year 2022 (Public Law 117-81) with regard to commissions.

DISCLOSURE OF EARMARKS AND CONGRESSIONALLY DIRECTED SPENDING ITEMS

Following is a list of congressional earmarks and congressionally directed spending items (as defined in clause 9 of rule XXI of the Rules of the House of Representatives and rule XLIV of the Standing Rules of the Senate, respectively) included in the bill or this explanatory statement, along with the name of each House Member, Senator, Delegate, or Resident Commissioner who submitted a request to the Committee of jurisdiction for each item so identified. For each item, a Member is required to provide a certification that neither the Member nor the Member's immediate family has a financial interest, and each Senator is required to provide a certification that neither the Senator nor the Senator's immediate family has a pecuniary interest in such congressionally directed spending item. Neither the bill nor the explanatory statement contains any limited tax benefits or limited tariff benefits as defined in the applicable House and Senate rules.

DEFENSE
[Community Project Funding Items]

Agency	Account	Recipient	Project Name	Amount	Requestor(s)	Origination
Air Force	RDTE,AF	Texas A&M University—Central Texas, Killeen, TX	Development of Cybersecurity Methodologies	\$2,990,000	Carter (TX)	H
Air Force	RDTE,AF	Central New York Defense Alliance, Rome, NY	Skydome: Trusted Smart-X Experimentation Environment	200,000	Tenney	H
Army	RDTE,A	Georgia Southern University, Statesboro, GA	Soldier Athlete Human Performance Optimization	1,500,000	Carter (GA)	H
Army	RDTE,A	Pennington Biomedical Research Center, Baton Rouge, LA	Center for Excellence in Military Health and Performance Enhancement	3,566,666	Graves (LA)	H
Army	RDTE,A	Coalition for National Trauma Research, San Antonio, TX	National Trauma Research Repository Data Population Project	1,900,000	Ruppersberger	H
Army	RDTE,A	APG Centennial Celebration Association, Belcamp, MD	The Discovery Center at Water's Edge	250,000	Ruppersberger	H
Defense-Wide	RDTE,DW	Kansas City Kansas Community College, Kansas City, KS	Automation Engineering Technology Program	1,981,000	David's (KS)	H
Defense-Wide	RDTE,DW	National Center for Defense Manufacturing and Machining, El Paso, TX	El Paso Makes Contract Support for El Paso Manufacturers	964,000	Escobar	H
Defense-Wide	RDTE,DW	VA Tech University, Blacksburg, VA	Next Generation Explosives and Propellants	1,000,000	Griffith	H
Defense-Wide	RDTE,DW	American Museum of Natural History, New York, NY	Novel Analytical and Empirical Approaches to the Prediction and Monitoring of Disease Transmission	1,500,000	Nadler	H
Defense-Wide	RDTE,DW	The University of North Carolina at Chapel Hill, Chapel Hill, NC	Assessing and Tracking Tactical Forces Initiative	4,000,000	Price (NC)	H
Defense-Wide	RDTE,DW	The University of Texas at San Antonio, San Antonio, TX	Cybersecurity Manufacturing Innovation Park	1,000,000	Castro (TX)	H

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DEFENSE—Continued
[Community Project Funding Items]

Agency	Account	Recipient	Project Name	Amount	Requestor(s)	Origination
Defense Wide	RDTE,DW	Institute for Digital Enterprise Advancement, Huntsville, AL	Systems Engineering Technician Education Initiative	550,000	Aderholt	H
Navy	RDTE,N	Monmouth University, West Long Branch, NJ	Coastal adaptation research for improved coastal community and NWS Earle military installation resilience	450,000	Pallone	H
Space Force	RDTE,SF	The Texas A&M Engineering Experiment Station, College Station, TX	Development of a Core Manipulator Joint	1,665,000	Sessions	H

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE 1					
MILITARY PERSONNEL					
Military Personnel, Army	44,861,853	47,973,824	47,814,079	+2,952,226	-159,745
CR Funding Military Personnel, Army - P.L. 117-86	---	---	33,263	+33,263	+33,263
Military Personnel, Navy	33,764,579	35,496,879	35,504,251	+1,739,672	+7,372
CR Funding Military Personnel, Navy - P.L. 117-86	---	---	91,327	+91,327	+91,327
Military Personnel, Marine Corps	14,557,436	14,748,337	14,572,400	+14,964	-175,937
CR Funding Military Personnel, Marine Corps - P.L. 117-86	---	---	5,206	+5,206	+5,206
Military Personnel, Air Force	32,784,171	35,047,901	35,078,206	+2,294,035	+30,305
CR Funding Military Personnel, Air Force - P.L. 117-86	---	---	27,564	+27,564	+27,564
Reserve Personnel, Army	5,037,119	5,229,805	5,156,976	+119,857	-72,829
Reserve Personnel, Navy	2,200,600	2,316,934	2,297,029	+96,429	-19,905
Reserve Personnel, Marine Corps	843,564	881,909	802,619	-40,945	-79,290
Reserve Personnel, Air Force	2,193,493	2,386,013	2,371,001	+177,508	-15,012
National Guard Personnel, Army	8,663,999	9,051,344	9,017,728	+353,729	-33,616
National Guard Personnel, Air Force	4,530,091	4,814,974	4,764,443	+234,352	-50,531
Total, title I, Military Personnel	149,436,905	157,947,920	157,536,092	+8,099,187	-411,828
Total, including Tricare	157,807,905	167,285,095	166,873,267	+9,065,362	-411,828

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE II					
OPERATION AND MAINTENANCE					
Operation and Maintenance, Army	38,418,982	54,616,397	55,016,103	+16,597,121	+399,706
CR Funding Operation and Maintenance, Army - P.L. 117-86	---	---	22,640	+22,640	+22,640
Operation and Maintenance, Navy	47,632,527	60,441,228	62,480,035	+14,847,508	+2,038,807
CR Funding Operation and Maintenance, Navy - P.L. 117-86	---	---	70,000	+70,000	+70,000
Operation and Maintenance, Marine Corps	7,286,184	9,024,791	9,185,430	+1,899,246	+160,639
Operation and Maintenance, Air Force	33,528,409	53,876,475	55,103,948	+21,575,539	+1,227,473
Operation and Maintenance, Space Force	2,492,114	3,440,712	3,435,212	+943,098	-5,500
Operation and Maintenance, Defense-Wide	39,048,990	44,918,366	45,864,202	+6,815,212	+945,836
Afghanistan Security Forces Fund	---	3,327,810	---	---	-3,327,810
Counter-ISIS Train and Equip Fund (CTEF)	---	522,000	500,000	+500,000	-22,000
CR Funding Operation and Maintenance Defense Wide - P.L. 117-86	---	---	100,000	+100,000	+100,000
Operation and Maintenance, Army Reserve	2,887,898	3,000,635	3,032,255	+144,357	+31,620
Operation and Maintenance, Navy Reserve	1,115,150	1,148,698	1,173,598	+58,448	+24,900
Operation and Maintenance, Marine Corps Reserve	283,494	285,050	294,860	+11,366	+9,810
Operation and Maintenance, Air Force Reserve	3,268,461	3,352,106	3,417,706	+149,245	+65,600
Operation and Maintenance, Army National Guard	7,350,837	7,647,209	7,714,473	+363,636	+67,264
Operation and Maintenance, Air National Guard	6,785,853	6,574,020	6,786,420	+567	+212,400

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
United States Court of Appeals for the Armed Forces	15,211	15,589	15,589	+378	---
Environmental Restoration, Army	264,285	200,806	299,008	+34,723	+98,202
Environmental Restoration, Navy	421,250	298,250	390,113	+31,137	+91,863
Environmental Restoration, Air Force	509,250	301,768	522,010	+12,760	+220,242
Environmental Restoration, Defense-Wide	19,952	8,783	10,979	-8,973	+2,196
Environmental Restoration, Formerly Used Defense Sites	288,750	218,580	292,580	+3,830	+74,000
Overseas Humanitarian, Disaster, and Civic Aid	147,500	110,051	160,051	+12,551	+50,000
Cooperative Threat Reduction Account	360,190	239,849	344,849	-15,341	+105,000
Department of Defense Acquisition Workforce Development Account	88,181	54,679	56,679	+31,502	+2,000
Total, title II, Operation and Maintenance	192,213,468	253,623,852	256,288,740	+64,075,272	+2,664,888

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE III					
PROCUREMENT					
Aircraft Procurement, Army	3,457,342	2,806,452	3,295,431	-161,911	+488,979
Missile Procurement, Army	3,220,541	3,556,251	3,460,064	+239,523	-96,187
Procurement of Weapons and Tracked Combat Vehicles, Army	3,611,887	3,875,893	4,319,082	+707,195	+443,189
Procurement of Ammunition, Army	2,790,140	2,158,110	2,276,667	-513,473	+118,557
Other Procurement, Army	8,603,112	8,873,558	9,453,524	+850,412	+579,966
Aircraft Procurement, Navy	19,480,280	16,477,178	17,799,321	-1,680,959	+1,322,143
Weapons Procurement, Navy	4,477,773	4,220,705	3,982,657	-495,116	-238,048
Procurement of Ammunition, Navy and Marine Corps	792,023	988,018	845,289	+53,266	-142,729
Shipbuilding and Conversion, Navy	23,268,880	22,571,059	26,664,526	+3,395,646	+4,093,467
Other Procurement, Navy	10,512,209	10,875,912	11,072,651	+560,442	+196,739
Procurement, Marine Corps	2,648,375	3,043,091	3,093,770	+445,395	+50,679
Aircraft Procurement, Air Force	19,212,753	15,727,669	18,383,946	-828,807	+2,656,277
Missile Procurement, Air Force	2,142,181	2,669,811	2,475,206	-333,025	-194,605
Procurement of Ammunition, Air Force	550,844	795,168	665,977	+115,133	-129,191
Other Procurement, Air Force	23,441,648	25,251,137	26,615,079	+3,173,431	+1,363,942
Procurement, Space Force	2,310,994	2,766,854	3,023,408	+712,414	+256,554
Procurement, Defense-Wide	5,837,347	5,548,212	6,177,561	+340,214	+629,349
Defense Production Act Purchases	174,639	340,927	388,327	+213,688	+47,400
National Guard and Reserve Equipment			950,000	+950,000	+950,000
Total, title III, Procurement	136,532,968	132,546,005	144,942,486	+8,409,518	+12,396,481

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE IV					
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Army	13,969,032	12,799,645	14,539,417	+570,365	+1,739,772
Research, Development, Test and Evaluation, Navy	20,078,829	22,639,362	22,139,080	+2,060,251	-500,282
Research, Development, Test and Evaluation, Air Force	36,357,443	39,184,328	41,592,913	+5,235,470	+2,408,585
Research, Development, Test and Evaluation, Space Force	10,540,069	11,266,387	11,597,405	+1,057,336	+331,018
Research, Development, Test and Evaluation, Defense-Wide	25,932,671	25,857,875	29,065,786	+3,133,115	+3,207,911
Operational Test and Evaluation, Defense	257,120	216,591	276,591	+19,471	+60,000
	=====	=====	=====	=====	=====
Total, title IV, Research, Development, Test and Evaluation	107,135,164	111,964,188	119,211,192	+12,076,028	+7,247,004
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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE V					
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds.....	1,473,910	1,902,000	2,017,000	+543,090	+115,000
	=====	=====	=====	=====	=====
Total, title V, Revolving and Management Funds..	1,473,910	1,902,000	2,017,000	+543,090	+115,000
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS AC1 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request	Line Number
TITLE VI						9300
OTHER DEPARTMENT OF DEFENSE PROGRAMS						9400
Defense Health Program						9500
Operation and maintenance	30,747,659	34,182,719	33,957,986	+3,210,327	-224,733	9600
Procurement	544,369	779,008	758,708	+214,339	-20,300	9700
Research, development, test and evaluation	2,392,579	630,680	2,633,488	+240,909	+2,002,808	9710
Total, Defense Health Program	33,684,607	35,592,407	37,350,182	+3,665,575	+1,757,775	10100
Chemical Agents and Munitions Destruction, Defense						10200
Operation and maintenance	106,691	93,121	93,121	-13,570	---	10300
Procurement	616	---	---	-616	---	10400
Research, development, test and evaluation	942,493	1,001,231	1,001,231	+58,738	---	10500
Total, Chemical Agents	1,049,800	1,094,352	1,094,352	+44,552	---	10600
Drug Interdiction and Counter-Drug Activities, Defense	914,429	821,908	925,649	+11,220	+103,741	10705
Office of the Inspector General	375,439	438,363	438,363	+62,924	---	10900
Total, title VI, Other Department of Defense Programs	36,024,275	37,947,030	39,808,546	+3,784,271	+1,861,516	11100

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 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)	633,719	634,000	587,100	-46,619	-46,900
	=====	=====	=====	=====	=====
Total, title VII, Related agencies	1,147,719	1,148,000	1,101,100	-46,619	-46,900
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request	Line Number
TITLE VIII						12300
GENERAL PROVISIONS						12310
Additional transfer authority (Sec. 8005)	(4,000,000)	(8,000,000)	(6,000,000)	(+2,000,000)	(-2,000,000)	12320
Indian Financing Act incentives (Sec. 8020)	25,000	---	25,000	---	+25,000	12321
FFRDC (Sec. 8027)	---	---	-63,840	-63,840	-63,840	12325
National Defense Stockpile Transaction Fund (Sec. 8035)	---	---	125,000	+125,000	+125,000	12363
Rescissions (Sec. 8048)	-3,248,047	---	-3,305,725	-57,678	-3,305,725	12370
National grants (Sec. 8053)	49,000	---	49,000	---	+49,000	12375
O&M, Defense-wide transfer authority (Sec. 8056)	(30,000)	(30,000)	(30,000)	---	---	12500
Fisher House Foundation (Sec. 8069)	10,000	---	5,000	-5,000	+5,000	12553
Improving Tactical Artificial Intelligence at the Combatant Commands (Sec. 8070)	---	---	200,000	+200,000	+200,000	12630
Fisher House O&M Army Navy Air Force transfer authority (Sec. 8071)	(11,000)	(11,000)	(11,000)	---	---	12640
John C. Stennis Center for Public Service Development (Sec. 8072)	(1,000)	---	(1,000)	---	(+1,000)	12654
Artificial Intelligence Workforce (Sec. 8080)	---	---	50,000	+50,000	+50,000	12660
Defense Health O&M transfer authority (Sec. 8093)	(137,000)	(137,000)	(137,000)	---	---	12664

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(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request	Line Number
Public Schools on Military Installations (Sec. 8109)	284,000	---	516,233	+232,233	+516,233	12668
Iron Dome (Sec. 8142)	---	---	1,000,000	+1,000,000	+1,000,000	12685
Foreign Currency Fluctuations	-375,000	---	---	+375,000	---	12883
Revised fuel costs	-1,700,362	---	---	+1,700,362	---	12885
Defense Industrial Base and Supply Chain Resiliency	100,000	---	---	-100,000	---	12891
Readiness	300,500	---	---	-300,500	---	12895
Red Hill (Sec. 8150)	---	---	100,000	+100,000	+100,000	12900
	=====	=====	=====	=====	=====	
Total, Title VIII, General Provisions	-4,554,909	---	-1,299,332	+3,255,577	-1,299,332	13200
	=====	=====	=====	=====	=====	

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 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)	2,748,033	---	---	-2,748,033	---
Military Personnel, Navy (GWOT)	382,286	---	---	-382,286	---
Military Personnel, Marine Corps (GWOT)	129,943	---	---	-129,943	---
Military Personnel, Air Force (GWOT)	1,077,168	---	---	-1,077,168	---
Reserve Personnel, Army (GWOT)	33,414	---	---	-33,414	---
Reserve Personnel, Navy (GWOT)	11,771	---	---	-11,771	---
Reserve Personnel, Marine Corps (GWOT)	2,048	---	---	-2,048	---
Reserve Personnel, Air Force (GWOT)	16,816	---	---	-16,816	---
National Guard Personnel, Army (GWOT)	195,314	---	---	-195,314	---
National Guard Personnel, Air Force (GWOT)	5,800	---	---	-5,800	---
Total, Military Personnel	4,602,593	---	---	-4,602,593	---
Operation and Maintenance					
Operation & Maintenance, Army (GWOT)	17,497,254	---	---	-17,497,254	---
Operation & Maintenance, Navy (GWOT)	11,568,363	---	---	-11,568,363	---
Operation & Maintenance, Marine Corps (GWOT)	1,108,667	---	---	-1,108,667	---
Operation & Maintenance, Air Force (GWOT)	18,432,020	---	---	-18,432,020	---
Operation & Maintenance, Space Force (GWOT)	77,115	---	---	-77,115	---

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Operation & Maintenance, Defense-Wide (GWOT)	6,041,898	---	---	-6,041,898	---
Operation & Maintenance, Army Reserve (GWOT)	33,399	---	---	-33,399	---
Operation & Maintenance, Navy Reserve (GWOT)	21,492	---	---	-21,492	---
Operation & Maintenance, Marine Corps Reserve (GWOT)	8,707	---	---	-8,707	---
Operation & Maintenance, Air Force Reserve (GWOT)	30,090	---	---	-30,090	---
Operation & Maintenance, Army National Guard (GWOT)	79,792	---	---	-79,792	---
Operation & Maintenance, Air National Guard (GWOT)	175,642	---	---	-175,642	---
Subtotal	55,074,439	---	---	-55,074,439	---
Afghanistan Security Forces Fund (GWOT)	3,047,612	---	---	-3,047,612	---
Counter-ISIS Train and Equip Fund (GWOT)	710,000	---	---	-710,000	---
Total, Operation and Maintenance	58,832,051	---	---	-58,832,051	---
Procurement					
Aircraft Procurement, Army (GWOT)	595,112	---	---	-595,112	---
Missile Procurement, Army (GWOT)	796,599	---	---	-796,599	---
Procurement of Weapons and Tracked Combat Vehicles, Army (GWOT)	15,225	---	---	-15,225	---
Procurement of Ammunition, Army (GWOT)	103,875	---	---	-103,875	---
Other Procurement, Army (GWOT)	924,823	---	---	-924,823	---
Aircraft Procurement, Navy (GWOT)	32,905	---	---	-32,905	---
Weapons Procurement, Navy (GWOT)	5,572	---	---	-5,572	---
Procurement of Ammunition, Navy and Marine Corps (GWOT)	77,424	---	---	-77,424	---
Other Procurement, Navy (GWOT)	341,612	---	---	-341,612	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Procurement, Marine Corps (GWOT)	47,963	---	---	-47,963	---
Aircraft Procurement, Air Force (GWOT)	772,738	---	---	-772,738	---
Missile Procurement, Air Force (GWOT)	223,772	---	---	-223,772	---
Procurement of Ammunition, Air Force (GWOT)	785,617	---	---	-785,617	---
Other Procurement, Air Force (GWOT)	355,339	---	---	-355,339	---
Procurement, Defense-Wide (GWOT)	342,137	---	---	-342,137	---
National Guard and Reserve Equipment (GWOT)	950,000	---	---	-950,000	---
Total, Procurement	6,370,713	---	---	-6,370,713	---
Research, Development, Test and Evaluation					
Research, Development, Test and Evaluation, Army (GWOT)	175,824	---	---	-175,824	---
Research, Development, Test and Evaluation, Navy (GWOT)	59,562	---	---	-59,562	---
Research, Development, Test and Evaluation, Air Force (GWOT)	5,304	---	---	-5,304	---
Research, Development, Test and Evaluation, Defense-Wide (GWOT)	80,818	---	---	-80,818	---
Total, Research, Development, Test and Evaluation	321,508	---	---	-321,508	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Revolving and Management Funds					
Defense Working Capital Funds (GWOT)	20,090	---	---	-20,090	---
Other Department of Defense Programs					
Defense Health Program:					
Operation & Maintenance (GWOT)	365,098	---	---	-365,098	---
Office of the Inspector General (GWOT)	24,069	---	---	-24,069	---
Total, Other Department of Defense Programs	389,167	---	---	-389,167	---
GENERAL PROVISIONS -- THIS TITLE					
Additional transfer authority (GWOT) (Sec 9002)	(2,000,000)	---	---	(-2,000,000)	---
Rescissions (GWOT) (Sec.9023)	-1,886,122	---	---	+1,886,122	---
Total, General Provisions	-1,886,122	---	---	+1,886,122	---
Total, title IX (OCO/GWOT)	68,650,000	---	---	-68,650,000	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
OTHER APPROPRIATIONS					
EMERGENCY SECURITY SUPPLEMENTAL APPROPRIATIONS ACT, 2021 (PL-117-31)					
Military Personnel					
National Guard Personnel, Army (emergency)	231,000	---	---	-231,000	---
National Guard Personnel, Air Force (emergency)	28,900	---	---	-28,900	---
Total, Military Personnel	259,900	---	---	-259,900	---
Operation and Maintenance					
Operation and Maintenance, Army National Guard (emergency)	218,500	---	---	-218,500	---
Operation and Maintenance, Air National Guard (emergency)	42,500	---	---	-42,500	---
Overseas Humanitarian, Disaster, and Civic Aid (emergency)	500,000	---	---	-500,000	---
Total, Operation and Maintenance	761,000	---	---	-761,000	---
Total, EMERGENCY SECURITY SUPPLEMENTAL APPROPRIATIONS ACT, 2021 (PL-117-31)	1,020,900	---	---	-1,020,900	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

EXTENDING GOVERNMENT FUNDING AND DELIVERING EMERGENCY ASSISTANCE ACT, 2021 (PL 117-43)					
DIVISION 8 - DISASTER RELIEF SUPPLEMENTAL APPROPRIATIONS ACT, 2022					
Operation and Maintenance					
Operation and Maintenance, Navy (emergency).....	---	---	565,000	+565,000	+565,000
Operation and Maintenance, Air Force (emergency).....	---	---	330,000	+330,000	+330,000
	=====	=====	=====	=====	=====
Total, Division 8	---	---	895,000	+895,000	+895,000
	=====	=====	=====	=====	=====

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

DIVISION C - AFGHANISTAN SUPPLEMENTAL APPROPRIATIONS ACT, 2022					
Operation and Maintenance					
Overseas Humanitarian, Disaster, and Civic Aid (emergency)	---	---	2,200,000	+2,200,000	+2,200,000
	=====	=====	=====	=====	=====
Total, Division C	---	---	2,200,000	+2,200,000	+2,200,000
	=====	=====	=====	=====	=====
Total, Extending Government Funding and Delivering Emergency Assistance Act, 2021	---	---	3,095,000	+3,095,000	+3,095,000

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
FURTHER EXTENDING GOVERNMENT FUNDING ACT (P.L. 117-70)					
DIVISION B - ADDITIONAL AFGHANISTAN SUPPLEMENTAL APPROPRIATIONS ACT, 2022					
Military Personnel					
Military Personnel, Army (emergency)	---	---	128,000	+128,000	+128,000
Military Personnel, Navy (emergency)	---	---	7,000	+7,000	+7,000
Military Personnel, Marine Corps (emergency)	---	---	32,000	+32,000	+32,000
Military Personnel, Air Force (emergency)	---	---	145,000	+145,000	+145,000
Total, Military Personnel	---	---	312,000	+312,000	+312,000
Operation and Maintenance					
Overseas Humanitarian, Disaster, and Civic Aid (emergency)	---	---	4,000,000	+4,000,000	+4,000,000
Total, FURTHER EXTENDING GOVERNMENT FUNDING ACT (P.L. 117-70)	---	---	4,312,000	+4,312,000	+4,312,000
Total, Other Appropriations	1,020,900	---	7,407,000	+6,386,100	+7,407,000

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Grand total.....	697,451,400	706,416,170	736,349,999	+38,898,599	+29,933,829
Appropriations.....	(631,028,547)	(706,416,170)	(732,248,724)	(+101,220,177)	(+25,832,554)
Emergency appropriations.....	(1,020,900)	---	(7,407,000)	(+6,386,100)	(+7,407,000)
Global War on Terrorism (GWOT).....	(70,536,122)	---	---	(-70,536,122)	---
Rescissions.....	(-3,248,047)	---	(-3,305,725)	(-57,678)	(-3,305,725)
Rescissions (GWOT).....	(-1,886,122)	---	---	(+1,886,122)	---
(Transfer Authority).....	(4,179,000)	(8,178,000)	(6,179,000)	(+2,000,000)	(-1,999,000)
(Transfer Authority) (GWOT).....	(2,000,000)	---	---	(-2,000,000)	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2022

(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
RECAPITULATION					
Title I - Military Personnel	157,807,905	167,285,095	166,873,267	+9,065,362	-411,828
Title II - Operation and Maintenance	192,213,468	253,623,852	256,288,740	+64,075,272	+2,664,888
Title III - Procurement	136,532,968	132,546,005	144,942,486	+8,409,518	+12,396,481
Title IV - Research, Development, Test and Evaluation	107,135,164	111,964,188	119,211,192	+12,076,028	+7,247,004
Title V - Revolving and Management Funds	1,473,910	1,902,000	2,017,000	+543,090	+115,000
Title VI - Other Department of Defense Programs	36,024,275	37,947,030	39,808,546	+3,784,271	+1,861,516
Title VII - Related Agencies	1,147,719	1,148,000	1,101,100	-46,619	-46,900
Title VIII - General Provisions	-4,554,909	---	-1,299,332	+3,255,577	-1,299,332
Title IX - Global War on Terrorism (GWOT)	68,650,000	---	---	-68,650,000	---
Total, Department of Defense	697,451,400	706,416,170	736,349,999	+38,898,599	+29,933,829
Total, mandatory and discretionary	697,496,400	706,461,170	736,394,999	+38,898,599	+29,933,829

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