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DEPARTMENT OF DEFENSE APPROPRIATIONS BILL, 2022

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\_\_\_\_\_, 2021.—Committed to the Committee of the Whole House on the State of the Union and ordered to be printed

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Ms. MCCOLLUM of Minnesota, from the Committee on  
Appropriations, submitted the following

R E P O R T

[To accompany H.R. XX]

The Committee on Appropriations submits the following report in explanation of the accompanying bill making appropriations for the Department of Defense, and for other purposes, for the fiscal year ending September 30, 2022.

BILL TOTALS

Appropriations for most military functions of the Department of Defense are provided for in the accompanying bill for fiscal year 2022. This bill does not provide appropriations for military construction, military family housing, civil defense, and military nuclear warheads, for which requirements are considered in connection with other appropriations Acts.

The President's fiscal year 2022 budget request for activities funded in the Department of Defense Appropriations Act totals \$706,197,170,000 in new discretionary budget obligational authority.

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
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RECAPITULATION					
Title I - Military Personnel.....	157,807,905	167,285,095	166,797,135	+8,989,230	-487,960
Title II - Operation and Maintenance.....	192,213,468	253,623,852	254,320,053	+62,106,585	+696,201
Title III - Procurement.....	136,532,968	132,546,005	134,288,195	-2,244,773	+1,742,190
Title IV - Research, Development, Test and Evaluation.	107,135,164	111,964,188	110,368,824	+3,233,660	-1,595,364
Title V - Revolving and Management Funds.....	1,473,910	1,902,000	1,902,000	+428,090	---
Title VI - Other Department of Defense Programs.....	36,024,275	37,947,030	39,036,247	+3,011,972	+1,089,217
Title VII - Related Agencies.....	1,147,719	1,148,000	1,076,500	-71,219	-71,500
Title VIII - General Provisions.....	-4,554,909	250,000	-1,380,954	+3,173,955	-1,630,954
Title IX - Global War on Terrorism (GWOT).....	68,650,000	---	---	-68,650,000	---
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Total, Department of Defense.....	696,430,500	706,666,170	706,408,000	+9,977,500	-258,170
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Total, mandatory and discretionary.....	696,475,500	706,711,170	706,453,000	+9,977,500	-258,170
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## COMMITTEE BUDGET REVIEW PROCESS

During its review of the fiscal year 2022 budget request and execution of appropriations for fiscal year 2021, the Subcommittee on Defense held 18 hearings and one briefing during the period of February 2021 to May 2021. Hearings were held in open session, except when the security classification of the material to be discussed presented no alternative but to conduct those hearings in executive or closed session.

## INTRODUCTION

The Committee recommendation for total discretionary fiscal year 2022 Department of Defense funding is \$705,939,000,000, which is an increase of \$9,977,500,000 above the fiscal year 2021 enacted level and \$258,170,000 below the budget request.

This bill carries out the Committee's constitutional responsibility to recommend the appropriations necessary to provide for the common defense of the Nation. The Committee performed its role in a collegial and bipartisan fashion consistent with long-standing traditions.

Oversight of the management and expenditure of the \$705,939,000,000 provided to the Department of Defense and the Intelligence Community is a core function of the Defense Subcommittee. The Subcommittee performed this responsibility with a detailed review of the fiscal year 2022 budget request and held 18 hearings and one briefing.

While the budget request was delayed, as is customary in the first year of a new presidential administration, the Subcommittee thoroughly reviewed the budget request and identified programs where reductions are possible without adversely affecting the safety and effectiveness of military personnel. Examples of such reductions include savings from favorable contract pricing adjustments, contract or schedule delays resulting in savings, unjustified new programs and cost increases, funds requested ahead of need for the year of budget execution, projected or historical underexecution, and rescissions of unneeded prior year funds.

The fiscal year 2022 request for the Department of Defense increases funding for modernization, continuing the effort to reorient the focus of the Department from counterterrorism to great power competition with well-equipped peer or near-peer adversaries. The Committee recommendation provides the resources to maintain the technological advantage which currently exists for the United States and provides funding in areas to further these efforts. It is imperative that resources are directed toward capable platforms and weapons that are effective in high-end conflicts. Additionally, the Committee recommendation also reflects the importance placed on the servicemembers and their families who protect American freedoms, providing uniformed and civilian personnel with a 2.7 percent pay raise.

The Committee recommendation includes significant investments to combat climate change, which is an existential threat to national security. The Department estimates that it has spent \$8,000,000,000 to remedy the impacts of extreme weather. These events occur with greater frequency, leading to more instances of personnel being unable to train or facilities unable to be used at

installations that lack resiliency. Not only does climate change hamper readiness, but it also increases instability, as rising sea levels, drought, and other weather events constrain resources and forces the movement of people.

With regard to Overseas Contingency Operations (OCO) funding, House Report 116-453 stated, "The OCO experiment has been an abject failure and has given the Department a budgetary relief valve that has allowed it to avoid making difficult decisions." The Committee builds upon that statement by not providing any funding for OCO in fiscal year 2022. Instead of separate base and OCO accounts, all activities will be funded in base accounts, including direct war and enduring requirements. This change will increase transparency and accountability, although it necessitates adding amounts in base and OCO accounts enacted in fiscal year 2021 when comparing to recommended levels in base accounts in fiscal year 2022.

#### 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 Committee reports, and the P-1 and R-1 budget justification documents as subsequently modified by congressional action.

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

At the time the President submits the budget request for fiscal year 2023, the Secretary of Defense is directed to transmit to the congressional defense committees budget justification documents to be known as the M-1 and O-1, which shall identify, at the budget activity, activity group, and sub-activity group level, the amounts requested by the President to be appropriated to the Department of Defense for military personnel and operation and maintenance in any budget request, or amended budget request, for fiscal year 2023.

#### REPROGRAMMING GUIDANCE

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

Additionally, the Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees annual DD Form 1416 reports for titles I and II and quarterly, spreadsheet-based DD Form 1416 reports for Service and defense-

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

#### FUNDING INCREASES

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

#### CONGRESSIONAL SPECIAL INTEREST ITEMS

Items for which additional funds have been provided or items for which funding is specifically reduced as shown in the project level tables or in paragraphs using the phrase "only for" or "only to" in this report are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed in the Committee report.

#### CLASSIFIED ANNEX

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

#### COMMITTEE RECOMMENDATIONS BY MAJOR CATEGORY

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

In title I of the bill, the Committee recommends a total of \$166,797,135,000 for active, reserve, and National Guard military personnel, a decrease of \$487,960,000 below the budget request. The Committee recommendation provides full funding necessary to increase basic pay for all military personnel by 2.7 percent, effective January 1, 2022.

##### OPERATION AND MAINTENANCE

In title II of the bill, the Committee recommends a total of \$254,320,053,000 for operation and maintenance support to the military Services and other Department of Defense entities, an increase of \$696,201,000 above the budget request. The recommended levels will fund robust operational training, readiness, and facilities needs in fiscal year 2022.

## PROCUREMENT

In title III of the bill, the Committee recommends a total of \$134,288,195,000 for procurement, an increase of \$1,742,190,000 above the budget request.

Major initiatives and modifications include:

\$841,763,000 for the procurement of 33 UH/HH-60M Blackhawk helicopters, an increase of nine helicopters designated for the National Guard;

\$494,136,000 for the procurement of 30 remanufactured AH-64 Apache helicopters;

\$140,900,000 for an additional five CH-47F Block II Chinook aircraft;

\$100,000,000 for additional modernized Army National Guard HMMWVs;

\$977,161,000 for the procurement of 12 F/A-18E/F Super Hornet aircraft, an increase of \$889,329,000 and 12 aircraft above the President's request;

\$1,481,006,000 for the procurement of 11 CH-53K helicopters, an increase of two aircraft and \$194,742,000 above the President's request;

\$8,535,811,000 for the procurement of 85 F-35 aircraft, an increase of \$2,827,000 and the same number of aircraft as the President's request: 17 short take-off and vertical landing variants for the Marine Corps, 20 carrier variants for the Navy and Marine Corps, and 48 conventional variants for the Air Force;

\$23,486,398,000 for the procurement of eight Navy ships, including two DDG-51 guided missile destroyers, two SSN-774 attack submarines, one Frigate, one TAO Fleet Oiler, one T-AGOS(X) auxiliary general ocean surveillance ship; and one Towing, Salvage, and Rescue Ship; a total increase of \$915,339,000 and one DDG-51 Destroyer above the President's request;

\$1,122,087,000 for the procurement of 12 F-15EX aircraft;

\$1,355,512,000 for the procurement of 13 C/MC/KC-130J aircraft, an increase of \$485,780,000 and four C-130J aircraft above the President's request;

\$351,233,000 for the procurement of 12 MQ-9 Reaper unmanned aerial vehicles, an increase of \$114,259,000 and six aircraft above the President's request;

\$2,315,315,000 for the procurement of 14 KC-46 tanker aircraft;

\$792,221,000 for the procurement of 14 combat rescue helicopters;

\$1,337,347,000 for the procurement of five space launch services;

\$601,418,000 for the procurement of two Global Positioning System satellites; and

\$200,000,000 for the Israeli Cooperative Programs under the Missile Defense Agency.

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION

In title IV of the bill, the Committee recommends a total of \$110,368,824,000 for research, development, test and evaluation, a decrease of \$1,595,364,000 below the budget request.

Major initiatives and modifications include:

\$1,275,355,000 for the continued development of the conventional prompt strike program;

\$187,541,000 for the continued development of the Marine Corps ground-based anti-ship missile and long range fires programs;

\$2,053,316,000 for the continued development of the F-35 Lightning Joint Strike Fighter aircraft;

\$2,872,624,000 for the continued development of the B-21 bomber;

\$619,065,000 for the development of a Presidential Aircraft Replacement;

\$2,531,602,000 for the development of the Ground Based Strategic Deterrent;

\$630,243,000 for the design, build, and test of prototypes for the Army's Future Attack Reconnaissance Aircraft;

\$300,928,000 for planning, prototype manufacturing, and testing of the Army's Long Range Hypersonic Weapon;

\$264,265,000 for the Global Positioning System IIRF;

\$413,766,000 for the Global Positioning System III Operational Control Segment;

\$2,451,256,000 for the Next-Generation Overhead Persistent Infrared system;

\$3,484,729,000 for the Defense Advanced Research Projects Agency; and

\$300,000,000 for the Israeli Cooperative Programs under the Missile Defense Agency.

#### DEFENSE HEALTH PROGRAM

The Committee recommends a total of \$36,658,536,000 for the Defense Health Program to support worldwide medical and dental services for active forces and other eligible beneficiaries.

#### 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 overhead costs on all congressional program increases. The Committee was encouraged that the Army developed a system for tracking overhead costs on congressional program increases, and believes that all of the Services and Defense-Wide 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 Committee also notes that fiscal year 2022 Community Project Funding (CPF) provides valuable resources to community projects with established needs.

The Committee 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. In addition, the Committee directs the Secretary of Defense to ensure that all CPF project funding is awarded to its intended recipient. The Service Secretaries and the Under Secretary of Defense for Acquisition and Sustainment may request a waiver to these requirements by submitting a prior approval request in writing to the House and Senate Appropriations Committees.

## LAW ENFORCEMENT TRAINING

The Committee notes that the Commerce, Justice, Science, and Related Agencies Appropriations Act, 2022 directs the Attorney General to implement training programs to cover the use of force and de-escalation, racial profiling, implicit bias, and procedural justice, to include training on the duty of federal law enforcement officers to intervene in cases where another law enforcement officer is using excessive force, and make such training a requirement for federal law enforcement officers. The Committee further notes that each of the Services, the civilian entities that provide security, and the Pentagon Force Protection Agency (PFPA) funded by this Act are considered federal law enforcement officers and Federal Law Enforcement Training Centers partner organizations. The Committee directs the Secretary of Defense, the Service Secretaries, the civilian entities, and the PFPA to adopt and follow the training programs implemented by the Attorney General, and to make such training a requirement for its federal law enforcement officers and any contractors providing security. The Committee further directs the Secretary of Defense, the Service Secretaries, and the PFPA to brief the House and the Senate Appropriations Committees on their efforts relating to training not later than 90 days after the enactment of this Act. In addition, the Committee directs the Service Secretaries, the civilian entities, and the PFPA, to the extent that each have not already done so, to develop policies and procedures to submit their use of force data to the Federal Bureau of Investigation (FBI)'s National Use of Force Data Collection database. The Committee further directs the Secretary of Defense and the Service Secretaries to brief the House and the Senate Appropriations Committees not later than 90 days after the enactment of this Act on their current efforts to tabulate and submit its use of force data to the FBI.

## LITTORAL COMBAT SHIPS

The Committee recommendation includes a general provision which allows for the decommissioning of only the USS Coronado. The Committee is disappointed that the Navy has planned to decommission two ships, the USS Detroit and the USS Little Rock, that are five and four years old, respectively. The Committee believes this is a misuse of taxpayer funds and directs the Secretary of the Navy to provide a report to the congressional defense committees not later than 60 days after the enactment of this Act on specific plans and missions for the USS Fort Worth, the USS Detroit, and the USS Little Rock in the fiscal year 2023 budget request.

## OVERSEAS CONTINGENCY OPERATIONS

The Committee supports the elimination of overseas contingency operations funding in the Department of Defense budget, as proposed in the budget request. This change will increase transparency and accountability for funds appropriated by Congress.

## MISSILE DEFENSE OF GUAM

The fiscal year 2022 budget request includes \$118,300,000 for the initial development of survivable and operationally effective inte-



grated air and missile defenses for Guam. While supportive of the defense of Guam from ballistic, hypersonic, and cruise missile threats, the Committee notes that the report on the defense of Guam from integrated air and missile threats, required by the National Defense Authorization Act for Fiscal Year 2021, has not yet been submitted to the congressional defense committees. Additionally, the lack of detailed information on the budget request, especially the request for \$40,000,000 in procurement, is troubling. Therefore, the Committee has denied funding for procurement and reduced the amount recommended for research, development, test and evaluation until the Department submits the required report and adequate budgetary information for the Committee to make informed funding decisions on these efforts.

#### ANOMALOUS HEALTH INCIDENTS/HAVANA SYNDROME

The Committee is concerned by reports of adverse health incidents and their origins affecting United States government personnel abroad. Victims should receive prompt and appropriate medical care and related support without unnecessary delays or bureaucratic obstacles. The Committee is concerned that the victims of anomalous health incidents, who serve or have served across the federal government, have been afforded inconsistent access to treatment.

The Committee directs the Secretary of Defense to provide a report to the congressional defense and intelligence committees not later than 30 days after the enactment of this Act on the prompt provision of adequate medical care and related support to personnel affected by anomalous health incidents, as well as any affected family members. The report shall include the roles and responsibilities of the Department of Defense, and those of the interagency, in evaluating and treating impacted personnel; the plan for the Department to better manage incidences of care to more effectively and efficiently treat patients based on geography and health conditions; and the resources required by the Department to ensure adequate evaluation and treatment of impacted personnel, including the most appropriate model by which interagency partners reimburse the Department for medical services provided to interagency personnel. The Committee understands the hesitancy of some personnel to self-report and urges the Secretary of Defense and interagency leaders to engage affected populations to ensure care can be provided expeditiously.

The Committee 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 monthly 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.



## TITLE I

### MILITARY PERSONNEL

The fiscal year 2022 Department of Defense military personnel budget request totals \$167,285,095,000. The Committee recommendation provides \$166,797,135,000 for the military personnel accounts. The table below summarizes the Committee recommendations:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RECAPITULATION			
MILITARY PERSONNEL, ARMY.....	47,973,824	47,875,354	-98,470
MILITARY PERSONNEL, NAVY.....	35,496,879	35,458,629	-38,250
MILITARY PERSONNEL, MARINE CORPS.....	14,748,337	14,595,837	-152,500
MILITARY PERSONNEL, AIR FORCE.....	35,047,901	35,016,131	-31,770
RESERVE PERSONNEL, ARMY.....	5,229,805	5,172,805	-57,000
RESERVE PERSONNEL, NAVY.....	2,316,934	2,294,229	-22,705
RESERVE PERSONNEL, MARINE CORPS.....	881,909	866,219	-15,690
RESERVE PERSONNEL, AIR FORCE.....	2,386,013	2,374,433	-11,580
NATIONAL GUARD PERSONNEL, ARMY.....	9,051,344	8,988,044	-63,300
NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,814,974	4,818,279	+3,305
	=====	=====	=====
GRAND TOTAL, TITLE I, MILITARY PERSONNEL.....	157,947,920	157,459,960	-487,960
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	166,797,135	-487,960
	=====	=====	=====

## MILITARY PERSONNEL OVERVIEW

The Committee recommendation provides \$166,797,135,000 for the military personnel accounts, which funds military pay and allowances, recruitment and retention initiatives, and overall quality of life programs for active duty, National Guard, and reserve personnel. The recommendation provides increased basic pay for all military personnel by 2.7 percent, effective January 1, 2022. The Committee continues to encourage constructive evaluations of recruitment and retention programs, bonus and special pay incentives, and personnel benefit programs for fiscal year 2022. The Committee remains supportive of programs intended to enhance the morale and quality of life of military personnel and their families.

## SUMMARY OF END STRENGTH

The fiscal year 2022 budget request includes a decrease of 1,975 in total end strength for the active forces and a decrease of 2,500 in total end strength for the Selected Reserve as compared to the fiscal year 2021 authorized levels. The following tables summarize the Committee recommendations for end strength levels, both in the aggregate and for each active and Selected Reserve component.

## OVERALL ACTIVE END STRENGTH

Fiscal year 2021 authorized .....	1,348,375
Fiscal year 2022 budget request .....	1,346,400
Fiscal year 2022 recommendation .....	1,346,400
Compared with fiscal year 2021 .....	- 1,975
Compared with fiscal year 2022 budget request .....	- - -

## OVERALL SELECTED RESERVE END STRENGTH

Fiscal year 2021 authorized .....	802,000
Fiscal year 2022 budget request .....	799,500
Fiscal year 2022 recommendation .....	799,500
Compared with fiscal year 2021 .....	- 2,500
Compared with fiscal year 2022 budget request .....	- - -

## SUMMARY OF MILITARY PERSONNEL END STRENGTH

	Fiscal year 2022				
	Fiscal year 2021 author- ized	Budget Re- quest	Committee Recommended	Change from request	Change from fiscal year 2021
<b>Active Forces (End Strength)</b>					
Army .....	485,900	485,000	485,000	-- --	-- 900
Navy .....	347,800	346,200	346,200	-- --	-- 1,600
Marine Corps .....	181,200	178,500	178,500	-- --	-- 2,700
Air Force .....	333,475	328,300	328,300	-- --	-- 5,175
Space Force .....	-- --	8,400	8,400	-- --	8,400
Total, Active Forces .....	1,348,375	1,346,400	1,346,400	-- --	-- 1,975
<b>Guard and Reserve Forces (End Strength)</b>					
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	-- --	0
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	2,145,900	0	-- 4,475

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

## SKILLBRIDGE PROGRAMS

The Committee is encouraged by the Department's efforts to incorporate SkillBridge programs for transitioning servicemembers and recognizes the positive impact the program has among veterans. However, the Committee is concerned with the disproport-

tionate demographics of participants, primarily the lack of some enlisted servicemembers' participation in the programs. The Committee directs the Service Secretaries to review policies that may preclude some enlisted servicemembers from having the opportunity to attend SkillBridge programs and to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act on the demographics of eligible and participating servicemembers in the SkillBridge program by Service, rank, and occupation; barriers to servicemembers' participation in the program; and recommendations to close the participation gap.

#### MINORITY OUTREACH AND OFFICER ACCESSIONS

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

#### CULTURAL SENSITIVITY TRAINING

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

#### TRAUMA TRAINING PROGRAM

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

#### EXTREMISM IN THE MILITARY

In March 2021, the Office of the Director of National Intelligence released an assessment which found domestic violent extremists, galvanized by recent political and societal events in the United States, pose a heightened threat to the homeland. The assessment found these extremists to be motivated by a range of ideologies, including white supremacy and anti-government sentiments. Fur-

ther, the assessment found that false narratives such as fraud in the recent general election and conspiracy theories promoting violence will almost certainly spur domestic extremists to attempt acts of violence. This is particularly troubling when coupled with the Department of Defense's October 2020 assessment that found extremist groups are actively seeking to recruit military personnel or enlist their own members in the military to obtain combat and tactical experience and gain sensitive national security-related knowledge.

While senior leaders in the Department of Defense and the Services are speaking candidly about the threat of extremist ideologies in their ranks, their efforts to make serious strides are undoubtedly hamstrung by the lack of definition of "extremism" and "extremist activities" in Department policy. The Department's efforts to address this threat are further complicated by an inability to collect and track extremist activity of servicemembers, gaps in investigative and record keeping procedures, and the absence of a mechanism to report extremist behavior or attempts at recruiting military personnel by extremist groups. Moreover, previous prevention programs implemented by the Department have yielded mixed results. Undoubtedly, the programs the Department establishes in the coming months aimed at preventing and responding to extremist ideology among servicemembers will be a critical part of what should be a holistic approach to this complex problem.

As the Department begins to implement the first National Strategy for Countering Domestic Terrorism, the Committee expects the Secretary of Defense to prioritize resources necessary to execute the strategy. The Committee directs the Secretary of Defense and the Service Secretaries to provide a report to the congressional defense committees not later than 90 days after the enactment of this Act on the Department's progress in implementing the Strategy, including the funding requirements for each effort. Further, the Committee 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 Department's progress on implementation of the recommendations set forth in the report provided in response to section 530 of Public Law 116-92 and dated October 14, 2020, as well as the Secretary of Defense memorandum "Immediate Actions to Counter Extremism in the Department and Establishment of the Countering Extremism Working Group" dated April 9, 2021. The Committee 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 Department's progress in developing improved security clearance policies, procedures, and training to ensure that individuals who adhere to extremist ideologies do not have security clearances. Finally, the Committee encourages the Secretary of Defense and the Service Secretaries to study how counseling and other support services could be leveraged to prevent and reverse extremist beliefs held by active duty military personnel who are identified or self-identify as endorsing white supremacist or violent anti-government ideologies.



## SEXUAL ASSAULT PREVENTION AND RESPONSE

The Committee believes that sexual assault and sexual harassment in the military and at the Service academies have reached crisis proportions. The Fort Hood Independent Review Committee Report details the failures of senior leaders to create a safe and professional environment for all servicemembers and the failure at the command level to prevent and punish sexual harassment and assault at the most basic level. While specific to Fort Hood, the report describes deficiencies in command climate that pervade all the Services. The report findings are emblematic of the broader culture in the military where systemic leadership failures have led to a permissive environment, resulting in higher rates of sexual assaults and harassment.

The Committee notes the Independent Review Commission on Sexual Assault and Sexual Harassment recently completed its work and delivered its findings and recommendations to the Secretary of Defense. The Commission's work focused on holding perpetrators accountable, preventing sexual assault before it occurs, improving the military's climate and culture, and victim care and support. The Committee directs the Secretary of Defense, in coordination with the Service Secretaries, to submit a report to the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act on its progress in implementing the Commission's recommendations and provide the funding requirements for each effort.

The Committee recommendation includes \$442,653,000, an increase of \$54,500,000 above the budget request, for sexual assault prevention and response programs. This recommendation includes \$7,500,000 above the request for the Sexual Assault Prevention and Response Office and an additional \$47,000,000 for the Special Victims' Counsel program for transfer to the Services, including the National Guard and reserve components.

## MILITARY FAMILIES AND FOOD INSECURITY

The Committee is concerned by the alarming rate of food insecurity faced by military families. While servicemembers and their families may have access to government food assistance, their ability to qualify can vary by program and location, forcing servicemembers to seek charitable food assistance or limit the ability to eat healthy or nutritious food. The coronavirus pandemic and its economic repercussions have only magnified the problem of food insecurity experienced by military families. For National Guard and reserve personnel, the past year of near constant deployments to respond to the pandemic, civil unrest, and natural disasters has exacerbated the problem of food insecurity. Recent data from the United States Census Bureau found hunger among guardsmen and reservists is more than double the national rate. The Committee notes the Secretary of Defense is required to submit a report providing an assessment of the current extent of food insecurity among servicemembers and their dependents as directed by the National Defense Authorization Act for Fiscal Year 2020. The Committee directs the Secretary of Defense to provide the report to the House and Senate Appropriations Committees in conjunction with

its submission to the House and Senate Armed Services Committees and to provide a briefing to the House and Senate Appropriations Committees not later than 30 days after the submission of the report.

#### MILITARY PERSONNEL, ARMY

Fiscal year 2022 budget request .....	\$47,973,824,000
Committee recommendation .....	47,875,354,000
Change from budget request .....	-98,470,000

The Committee recommends an appropriation of \$47,875,354,000 for Military Personnel, Army which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
MILITARY PERSONNEL, ARMY			
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5 BASIC PAY.....	8,209,572	8,209,572	---
10 RETIRED PAY ACCRUAL.....	2,846,910	2,846,910	---
11 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	83,231	83,231	---
25 BASIC ALLOWANCE FOR HOUSING.....	2,368,346	2,368,346	---
30 BASIC ALLOWANCE FOR SUBSISTENCE.....	318,174	318,174	---
35 INCENTIVE PAYS.....	84,496	84,496	---
40 SPECIAL PAYS.....	408,728	408,728	---
45 ALLOWANCES.....	208,786	208,786	---
50 SEPARATION PAY.....	62,128	62,128	---
55 SOCIAL SECURITY TAX.....	626,400	626,400	---
TOTAL, BUDGET ACTIVITY 1.....	15,214,771	15,214,771	---
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60 BASIC PAY.....	15,218,575	15,218,575	---
65 RETIRED PAY ACCRUAL.....	5,277,193	5,277,193	---
66 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	185,285	185,285	---
80 BASIC ALLOWANCE FOR HOUSING.....	5,028,104	5,028,104	---
85 INCENTIVE PAYS.....	90,396	90,396	---
90 SPECIAL PAYS.....	886,738	886,738	---
95 ALLOWANCES.....	756,814	756,814	---
100 SEPARATION PAY.....	276,456	276,456	---
105 SOCIAL SECURITY TAX.....	1,164,221	1,164,221	---
TOTAL, BUDGET ACTIVITY 2.....	28,881,782	28,881,782	---
ACTIVITY 3: PAY AND ALLOWANCES OF CADETS			
110 ACADEMY CADETS.....	94,375	94,375	---
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115 BASIC ALLOWANCE FOR SUBSISTENCE.....	1,406,620	1,406,620	---
120 SUBSISTENCE-IN-KIND.....	824,921	824,921	---
TOTAL, BUDGET ACTIVITY 4.....	2,231,541	2,231,541	---

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ACTIVITY 5: PERMANENT CHANGE OF STATION			
125 ACCESSION TRAVEL.....	131,239	131,239	---
130 TRAINING TRAVEL.....	145,625	145,625	---
135 OPERATIONAL TRAVEL.....	409,167	409,167	---
140 ROTATIONAL TRAVEL.....	648,299	648,299	---
145 SEPARATION TRAVEL.....	214,571	214,571	---
150 TRAVEL OF ORGANIZED UNITS.....	2,407	2,407	---
156 NON-TEMPORARY STORAGE.....	9,037	9,037	---
160 TEMPORARY LODGING EXPENSE.....	49,868	49,868	---
TOTAL, BUDGET ACTIVITY 5.....	1,610,213	1,610,213	---
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170 APPREHENSION OF MILITARY DESERTERS.....	245	245	---
175 INTEREST ON UNIFORMED SERVICES SAVINGS.....	3,442	3,442	---
180 DEATH GRATUITIES.....	49,000	49,000	---
185 UNEMPLOYMENT BENEFITS.....	69,125	69,125	---
195 EDUCATION BENEFITS.....	15	15	---
200 ADOPTION EXPENSES.....	426	426	---
210 TRANSPORTATION SUBSIDY.....	11,736	11,736	---
215 PARTIAL DISLOCATION ALLOWANCE.....	78	78	---
216 SGLI EXTRA HAZARD PAYMENTS (ROTC).....	6,650	6,650	---
217 RESERVE OFFICERS TRAINING CORPS (ROTC).....	104,727	104,727	---
218 JUNIOR ROTC.....	33,992	33,992	---
TOTAL, BUDGET ACTIVITY 6.....	279,436	279,436	---
LESS REIMBURSABLES.....	-338,294	-338,294	---
UNDISTRIBUTED ADJUSTMENT.....	---	-98,470	-98,470
TOTAL, TITLE I, MILITARY PERSONNEL, ARMY.....			
	47,973,824	47,875,354	-98,470
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....			
	2,622,860	2,622,860	---
TOTAL, MILITARY PERSONNEL, ARMY.....			
	50,596,684	50,498,214	-98,470

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
(In thousands of dollars)

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-98,470</b>	<b>-98,470</b>
Historical unobligated balances		-98,470	

## MILITARY PERSONNEL, NAVY

Fiscal year 2022 budget request .....	\$35,496,879,000
Committee recommendation .....	35,458,629,000
Change from budget request .....	-38,250,000

The Committee recommends an appropriation of \$35,458,629,000 for Military Personnel, Navy which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
MILITARY PERSONNEL, NAVY			
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5 BASIC PAY.....	4,927,327	4,927,327	---
10 RETIRED PAY ACCRUAL.....	1,722,160	1,722,160	---
11 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	93,769	93,769	---
25 BASIC ALLOWANCE FOR HOUSING.....	1,772,341	1,772,341	---
30 BASIC ALLOWANCE FOR SUBSISTENCE.....	184,764	184,764	---
35 INCENTIVE PAYS.....	158,262	158,262	---
40 SPECIAL PAYS.....	471,491	471,491	---
45 ALLOWANCES.....	118,872	118,872	---
50 SEPARATION PAY.....	45,642	45,642	---
55 SOCIAL SECURITY TAX.....	375,786	375,786	---
TOTAL, BUDGET ACTIVITY 1.....	9,870,414	9,870,414	---
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60 BASIC PAY.....	11,273,463	11,273,463	---
65 RETIRED PAY ACCRUAL.....	3,939,197	3,939,197	---
66 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	158,537	158,537	---
80 BASIC ALLOWANCE FOR HOUSING.....	5,389,737	5,389,737	---
85 INCENTIVE PAYS.....	117,064	117,064	---
90 SPECIAL PAYS.....	1,094,765	1,094,765	---
95 ALLOWANCES.....	553,624	553,624	---
100 SEPARATION PAY.....	106,949	106,949	---
105 SOCIAL SECURITY TAX.....	862,420	862,420	---
TOTAL, BUDGET ACTIVITY 2.....	23,495,756	23,495,756	---
ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN			
110 MIDSHIPMEN.....	96,001	96,001	---
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115 BASIC ALLOWANCE FOR SUBSISTENCE.....	929,731	929,731	---
120 SUBSISTENCE-IN-KIND.....	440,871	440,871	---
121 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	5	5	---
TOTAL, BUDGET ACTIVITY 4.....	1,370,607	1,370,607	---

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ACTIVITY 5: PERMANENT CHANGE OF STATION			
125 ACCESSION TRAVEL.....	96,429	96,429	---
130 TRAINING TRAVEL.....	141,196	141,196	---
135 OPERATIONAL TRAVEL.....	285,424	285,424	---
140 ROTATIONAL TRAVEL.....	241,054	241,054	---
145 SEPARATION TRAVEL.....	164,724	164,724	---
150 TRAVEL OF ORGANIZED UNITS.....	30,229	30,229	---
155 NON-TEMPORARY STORAGE.....	15,647	15,647	---
160 TEMPORARY LODGING EXPENSE.....	20,926	20,926	---
TOTAL, BUDGET ACTIVITY 5.....	995,629	995,629	---
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170 APPREHENSION OF MILITARY DESERTERS.....	41	41	---
175 INTEREST ON UNIFORMED SERVICES SAVINGS.....	1,144	1,144	---
180 DEATH GRATUITIES.....	22,400	22,400	---
185 UNEMPLOYMENT BENEFITS.....	48,897	48,897	---
195 EDUCATION BENEFITS.....	1,638	1,638	---
200 ADOPTION EXPENSES.....	185	185	---
210 TRANSPORTATION SUBSIDY.....	2,906	2,906	---
215 PARTIAL DISLOCATION ALLOWANCE.....	40	40	---
216 SGLI EXTRA HAZARD PAYMENTS.....	488	488	---
217 RESERVE OFFICERS TRAINING CORPS (ROTC).....	23,072	23,072	---
218 JUNIOR ROTC.....	15,891	15,891	---
TOTAL, BUDGET ACTIVITY 6.....	116,702	116,702	---
LESS REIMBURSABLES.....	-448,230	-448,230	---
UNDISTRIBUTED ADJUSTMENT.....	---	-38,250	-38,250
TOTAL, TITLE I, MILITARY PERSONNEL, NAVY.....			
300 HEALTH CARE CONTRIBUTION - OFFICERS.....	308,883	308,883	---
300 HEALTH CARE CONTRIBUTION - ENLISTED.....	1,579,453	1,579,453	---
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 100-375).....	1,888,336	1,888,336	---
TOTAL, MILITARY PERSONNEL, NAVY.....	39,273,551	39,235,301	-38,250



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

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-38,250</b>	<b>-38,250</b>
Historical unobligated balances		-38,250	

## MILITARY PERSONNEL, MARINE CORPS

Fiscal year 2022 budget request .....	\$14,748,337,000
Committee recommendation .....	14,595,837,000
Change from budget request .....	- 152,500,000

The Committee recommends an appropriation of \$14,595,837,000 for Military Personnel, Marine Corps which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
MILITARY PERSONNEL, MARINE CORPS			
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5 BASIC PAY.....	1,822,259	1,822,259	---
10 RETIRED PAY ACCRUAL.....	638,312	638,312	---
11 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	29,328	29,328	---
25 BASIC ALLOWANCE FOR HOUSING.....	584,652	584,652	---
30 BASIC ALLOWANCE FOR SUBSISTENCE.....	71,744	71,744	---
35 INCENTIVE PAYS.....	53,379	53,379	---
40 SPECIAL PAYS.....	8,111	8,111	---
45 ALLOWANCES.....	34,778	34,778	---
50 SEPARATION PAY.....	15,534	15,534	---
55 SOCIAL SECURITY TAX.....	136,029	136,029	---
TOTAL, BUDGET ACTIVITY 1.....	3,392,126	3,392,126	---
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60 BASIC PAY.....	5,419,211	5,419,211	---
65 RETIRED PAY ACCRUAL.....	1,897,892	1,897,892	---
68 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	122,101	122,101	---
80 BASIC ALLOWANCE FOR HOUSING.....	1,619,516	1,619,516	---
85 INCENTIVE PAYS.....	8,359	8,359	---
90 SPECIAL PAYS.....	194,305	194,305	---
95 ALLOWANCES.....	297,513	297,513	---
100 SEPARATION PAY.....	120,018	120,018	---
105 SOCIAL SECURITY TAX.....	414,220	414,220	---
TOTAL, BUDGET ACTIVITY 2.....	10,093,135	10,093,135	---
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115 BASIC ALLOWANCE FOR SUBSISTENCE.....	424,809	424,809	---
120 SUBSISTENCE-IN-KIND.....	358,425	358,425	---
121 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	10	10	---
TOTAL, BUDGET ACTIVITY 4.....	783,244	783,244	---

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ACTIVITY 5: PERMANENT CHANGE OF STATION			
125 ACCESSION TRAVEL.....	55,547	55,547	---
130 TRAINING TRAVEL.....	17,705	17,705	---
135 OPERATIONAL TRAVEL.....	161,828	161,828	---
140 ROTATIONAL TRAVEL.....	116,628	116,628	---
145 SEPARATION TRAVEL.....	79,435	79,435	---
150 TRAVEL OF ORGANIZED UNITS.....	734	734	---
155 NON-TEMPORARY STORAGE.....	12,156	12,156	---
160 TEMPORARY LODGING EXPENSE.....	2,461	2,461	---
165 OTHER.....	2,231	2,231	---
TOTAL, BUDGET ACTIVITY 5.....	448,725	448,725	---
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170 APPREHENSION OF MILITARY DESERTERS.....	234	234	---
175 INTEREST ON UNIFORMED SERVICES SAVINGS.....	124	124	---
180 DEATH GRATUITIES.....	13,000	13,000	---
185 UNEMPLOYMENT BENEFITS.....	39,643	39,643	---
200 ADOPTION EXPENSES.....	94	94	---
210 TRANSPORTATION SUBSIDY.....	1,475	1,475	---
215 PARTIAL DISLOCATION ALLOWANCE.....	90	90	---
216 SGLI EXTRA HAZARD PAYMENTS.....	1,964	1,964	---
218 JUNIOR ROTC.....	3,889	3,889	---
TOTAL, BUDGET ACTIVITY 6.....	60,513	60,513	---
LESS REIMBURSABLES.....	-29,406	-29,406	---
UNDISTRIBUTED ADJUSTMENT.....	---	-152,500	-152,500
=====			
TOTAL, TITLE I, MILITARY PERSONNEL, MARINE CORPS....	14,748,337	14,595,837	+152,500
300 HEALTH CARE CONTRIBUTION - OFFICERS.....	120,829	120,829	---
300 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	16,582,633	+152,500
=====			

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

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-152,500</b>	<b>-152,500</b>
Historical unobligated balances		-152,500	

## MILITARY PERSONNEL, AIR FORCE

Fiscal year 2022 budget request .....	\$35,047,901,000
Committee recommendation .....	35,016,131,000
Change from budget request .....	- 31,770,000

The Committee recommends an appropriation of \$35,016,131,000 for Military Personnel, Air Force which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
MILITARY PERSONNEL, AIR FORCE			
ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS			
5 BASIC PAY.....	5,921,052	5,921,052	---
10 RETIRED PAY ACCRUAL.....	2,051,100	2,051,100	---
11 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	74,304	74,304	---
25 BASIC ALLOWANCE FOR HOUSING.....	1,741,048	1,741,048	---
30 BASIC ALLOWANCE FOR SUBSISTENCE.....	219,395	219,395	---
35 INCENTIVE PAYS.....	385,666	385,666	---
40 SPECIAL PAYS.....	358,094	358,094	---
45 ALLOWANCES.....	129,427	129,427	---
50 SEPARATION PAY.....	39,320	39,320	---
55 SOCIAL SECURITY TAX.....	452,226	452,226	---
TOTAL, BUDGET ACTIVITY 1.....	11,371,632	11,371,632	---
ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL			
60 BASIC PAY.....	10,894,939	10,894,939	---
65 RETIRED PAY ACCRUAL.....	3,779,181	3,779,181	---
66 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	110,413	110,413	---
80 BASIC ALLOWANCE FOR HOUSING.....	4,460,507	4,460,507	---
85 INCENTIVE PAYS.....	66,323	66,323	---
90 SPECIAL PAYS.....	388,852	388,852	---
95 ALLOWANCES.....	623,044	623,044	---
100 SEPARATION PAY.....	105,298	105,298	---
105 SOCIAL SECURITY TAX.....	833,463	833,463	---
TOTAL, BUDGET ACTIVITY 2.....	21,262,020	21,262,020	---
ACTIVITY 3: PAY AND ALLOWANCES OF CADETS			
110 ACADEMY CADETS.....	88,069	88,069	---
ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL			
115 BASIC ALLOWANCE FOR SUBSISTENCE.....	1,183,075	1,183,075	---
120 SUBSISTENCE-IN-KIND.....	273,607	273,607	---
TOTAL, BUDGET ACTIVITY 4.....	1,456,682	1,456,682	---

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ACTIVITY 5: PERMANENT CHANGE OF STATION			
125 ACCESSION TRAVEL.....	97,881	97,881	---
130 TRAINING TRAVEL.....	57,592	57,592	---
135 OPERATIONAL TRAVEL.....	353,015	353,015	---
140 ROTATIONAL TRAVEL.....	489,495	489,495	---
145 SEPARATION TRAVEL.....	144,714	144,714	---
150 TRAVEL OF ORGANIZED UNITS.....	2,682	2,682	---
155 NON-TEMPORARY STORAGE.....	27,039	27,039	---
160 TEMPORARY LODGING EXPENSE.....	35,715	35,715	---
TOTAL, BUDGET ACTIVITY 5.....	1,208,113	1,208,113	---
ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS			
170 APPREHENSION OF MILITARY DESERTERS.....	29	29	---
175 INTEREST ON UNIFORMED SERVICES SAVINGS.....	2,065	2,065	---
180 DEATH GRATUITIES.....	17,500	17,500	---
185 UNEMPLOYMENT BENEFITS.....	26,111	26,111	---
195 EDUCATION BENEFITS.....	16	16	---
200 ADOPTION EXPENSES.....	416	416	---
210 TRANSPORTATION SUBSIDY.....	2,800	2,800	---
215 PARTIAL DISLOCATION ALLOWANCE.....	783	783	---
216 SGLI EXTRA HAZARD PAYMENTS.....	4,981	4,981	---
217 RESERVE OFFICERS TRAINING CORPS (ROTC).....	44,585	44,585	---
218 JUNIOR ROTC.....	18,783	18,783	---
TOTAL, BUDGET ACTIVITY 6.....	118,069	118,069	---
LESS REIMBURSABLES.....	-458,684	-458,684	---
UNDISTRIBUTED ADJUSTMENT.....	---	-31,770	-31,770
TOTAL, TITLE I, MILITARY PERSONNEL, AIR FORCE.....			
300 HEALTH CARE CONTRIBUTION - OFFICERS.....	36,047,901	35,016,131	-31,770
300 HEALTH CARE CONTRIBUTION - ENLISTED.....	355,853	355,853	---
300 HEALTH CARE CONTRIBUTION - ENLISTED.....	1,468,087	1,468,087	---
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 106-375).....	1,823,940	1,823,940	---
TOTAL, MILITARY PERSONNEL, AIR FORCE.....	38,695,781	38,864,011	-31,770



**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
(In thousands of dollars)

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-31,770</b>	<b>-31,770</b>
Historical unobligated balances		-31,770	

## RESERVE PERSONNEL, ARMY

Fiscal year 2022 budget request .....	\$5,229,805,000
Committee recommendation .....	5,172,805,000
Change from budget request .....	-57,000,000

The Committee recommends an appropriation of \$5,172,805,000 for Reserve Personnel, Army which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESERVE PERSONNEL, ARMY			
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	1,076,861	1,076,861	---
20 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	56,123	56,123	---
30 PAY GROUP F TRAINING (RECRUITS).....	217,116	217,116	---
40 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	5,008	5,008	---
60 MOBILIZATION TRAINING.....	4,333	4,333	---
70 SCHOOL TRAINING.....	236,971	236,971	---
80 SPECIAL TRAINING.....	368,618	368,618	---
90 ADMINISTRATION AND SUPPORT.....	2,520,000	2,520,000	---
94 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	23,447	23,447	---
100 EDUCATION BENEFITS.....	18,122	18,122	---
120 HEALTH PROFESSION SCHOLARSHIP.....	64,313	64,313	---
130 OTHER PROGRAMS.....	38,885	38,885	---
TOTAL, BUDGET ACTIVITY 1.....	5,229,805	5,229,805	---
UNDISTRIBUTED ADJUSTMENT.....	---	-57,000	-57,000
=====			
TOTAL, TITLE I, RESERVE PERSONNEL, ARMY.....	5,229,805	5,172,805	-57,000
300 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.....	5,149,793	5,092,793	-57,000
=====			

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

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-57,000</b>	<b>-57,000</b>
Historical unobligated balances		-57,000	

## RESERVE PERSONNEL, NAVY

Fiscal year 2022 budget request .....	\$2,316,934,000
Committee recommendation .....	2,294,229,000
Change from budget request .....	- 22,705,000

The Committee recommends an appropriation of \$2,294,229,000 for Reserve Personnel, Navy which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESERVE PERSONNEL, NAVY			
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	759,809	759,809	---
20 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	8,672	8,672	---
30 PAY GROUP F TRAINING (RECRUITS).....	51,024	51,024	---
60 MOBILIZATION TRAINING.....	13,289	13,289	---
70 SCHOOL TRAINING.....	64,775	64,775	---
80 SPECIAL TRAINING.....	151,665	151,665	---
90 ADMINISTRATION AND SUPPORT.....	1,201,916	1,201,916	---
94 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	6,330	6,330	---
100 EDUCATION BENEFITS.....	76	76	---
120 HEALTH PROFESSION SCHOLARSHIP.....	59,378	59,378	---
TOTAL, BUDGET ACTIVITY 1.....	2,316,934	2,316,934	---
UNDISTRIBUTED ADJUSTMENT.....	---	-22,705	-22,705
=====			
TOTAL, TITLE I, RESERVE PERSONNEL, NAVY.....	2,316,934	2,294,229	-22,705
300 HEALTH CARE CONTRIBUTION - RESERVE COMPONENT.....	160,129	160,129	---
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 105-87G).....	160,129	160,129	---
TOTAL, RESERVE PERSONNEL, NAVY.....	2,637,192	2,614,487	-22,705
=====			

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 (In thousands of dollars)

M-1	Budget Request	Committee Recommended	Change from Request
UNDISTRIBUTED ADJUSTMENT Historical unobligated balances		-22,705 -22,705	-22,705

## RESERVE PERSONNEL, MARINE CORPS

Fiscal year 2022 budget request .....	\$881,909,000
Committee recommendation .....	866,219,000
Change from budget request .....	- 15,690,000

The Committee recommends an appropriation of \$866,219,000 for Reserve Personnel, Marine Corps which will provide the following program in fiscal year 2022:



MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESERVE PERSONNEL, MARINE CORPS			
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	289,423	289,423	---
20 PAY GROUP B TRAINING (BACKFILL FOR ACT DUTY).....	48,270	48,270	---
30 PAY GROUP F TRAINING (RECRUITS).....	149,202	149,202	---
60 MOBILIZATION TRAINING.....	2,582	2,582	---
70 SCHOOL TRAINING.....	24,192	24,192	---
80 SPECIAL TRAINING.....	58,744	58,744	---
90 ADMINISTRATION AND SUPPORT.....	291,551	291,551	---
94 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	5,291	5,291	---
95 PLATOON LEADER CLASS.....	8,973	8,973	---
100 EDUCATION BENEFITS.....	3,681	3,681	---
TOTAL, BUDGET ACTIVITY 1.....	881,909	881,909	---
UNDISTRIBUTED ADJUSTMENT.....	---	-15,690	-15,690
=====			
TOTAL, TITLE I, RESERVE PERSONNEL, MARINE CORPS.....	881,909	866,219	-15,690
300 HEALTH CARE CONTRIBUTION - RESERVE COMPONENT.....	85,716	85,716	---
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 106-375).....	85,716	85,716	---
TOTAL, RESERVE PERSONNEL, MARINE CORPS.....	1,053,341	1,037,651	-15,690
=====			

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

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-15,690</b>	<b>-15,690</b>
Historical unobligated balances		-15,690	

## RESERVE PERSONNEL, AIR FORCE

Fiscal year 2022 budget request .....	\$2,386,013,000
Committee recommendation .....	2,374,433,000
Change from budget request .....	- 11,580,000

The Committee recommends an appropriation of \$2,374,433,000 for Reserve Personnel, Air Force which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESERVE PERSONNEL, AIR FORCE			
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	735,341	735,341	---
20 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	112,532	112,532	---
30 PAY GROUP F TRAINING (RECRUITS).....	68,252	68,252	---
40 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	4,235	4,235	---
60 MOBILIZATION TRAINING.....	599	599	---
70 SCHOOL TRAINING.....	197,290	197,290	---
80 SPECIAL TRAINING.....	357,457	357,457	---
90 ADMINISTRATION AND SUPPORT.....	827,431	827,431	---
94 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	6,289	6,289	---
100 EDUCATION BENEFITS.....	12,845	12,845	---
120 HEALTH PROFESSION SCHOLARSHIP.....	60,895	60,895	---
130 OTHER PROGRAMS (ADMIN & SUPPORT).....	2,847	2,847	---
TOTAL, BUDGET ACTIVITY 1.....	2,386,013	2,386,013	---
UNDISTRIBUTED ADJUSTMENT.....	---	-11,580	-11,580
=====			
TOTAL, TITLE I, RESERVE PERSONNEL, AIR FORCE.....	2,386,013	2,374,433	-11,580
300 HEALTH CARE CONTRIBUTION - RESERVE COMPONENT.....	168,959	168,959	---
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 106-375).....	168,959	168,959	---
TOTAL, RESERVE PERSONNEL, AIR FORCE.....	2,723,931	2,712,351	-11,580
=====			

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

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-11,580</b>	<b>-11,580</b>
Historical unobligated balances		-11,580	

## NATIONAL GUARD PERSONNEL, ARMY

Fiscal year 2022 budget request .....	\$9,051,344,000
Committee recommendation .....	8,988,044,000
Change from budget request .....	- 63,300,000

The Committee recommends an appropriation of \$8,988,044,000 for National Guard Personnel, Army which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
NATIONAL GUARD PERSONNEL, ARMY			
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	2,748,281	2,748,281	---
30 PAY GROUP F TRAINING (RECRUITS).....	561,111	561,111	---
40 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	46,286	46,286	---
70 SCHOOL TRAINING.....	543,332	543,332	---
80 SPECIAL TRAINING.....	822,181	841,261	+19,100
90 ADMINISTRATION AND SUPPORT.....	4,241,094	4,241,094	---
94 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	41,514	41,514	---
100 EDUCATION BENEFITS.....	49,565	49,565	---
TOTAL, BUDGET ACTIVITY 1.....	9,051,344	9,070,444	+19,100
UNDISTRIBUTED ADJUSTMENT.....	---	-82,400	-82,400
=====			
TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, ARMY.....	9,051,344	8,988,044	-63,300
300 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.....	10,890,352	10,627,052	-263,300
=====			

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

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>SPECIAL TRAINING</b>	<b>822,161</b>	<b>841,261</b>	<b>19,100</b>
Program increase - State Partnership Program		7,900	
Program increase - trauma training		1,200	
Program increase - Northern Strike		10,000	
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-82,400</b>	<b>-82,400</b>
Historical unobligated balances		-82,400	



## NATIONAL GUARD PERSONNEL, AIR FORCE

Fiscal year 2022 budget request .....	\$4,814,974,000
Committee recommendation .....	4,818,279,000
Change from budget request .....	+3,305,000

The Committee recommends an appropriation of \$4,818,279,000 for National Guard Personnel, Air Force which will provide the following program in fiscal year 2022:

MILITARY PERSONNEL  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
NATIONAL GUARD PERSONNEL, AIR FORCE			
ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT			
10 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	920,210	920,210	---
30 PAY GROUP F TRAINING (RECRUITS).....	110,398	110,398	---
40 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	5,822	5,822	---
70 SCHOOL TRAINING.....	350,965	350,965	---
80 SPECIAL TRAINING.....	245,388	265,988	+20,600
90 ADMINISTRATION AND SUPPORT.....	3,154,646	3,154,646	---
94 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	15,172	15,172	---
100 EDUCATION BENEFITS.....	12,373	12,373	---
TOTAL, BUDGET ACTIVITY 1.....	4,814,974	4,835,574	+20,600
UNDISTRIBUTED ADJUSTMENT.....	---	-17,295	-17,295
=====			
TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, AIR FORCE.	4,814,974	4,818,279	+3,305
TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375).....	314,339	314,339	---
TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE.....	5,129,313	5,132,618	+3,305
=====			

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

<b>M-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>SPECIAL TRAINING</b>	<b>245,388</b>	<b>265,988</b>	<b>20,600</b>
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	
<b>UNDISTRIBUTED ADJUSTMENT</b>		<b>-17,295</b>	<b>-17,295</b>
Historical unobligated balances		-17,295	



## TITLE II

### OPERATION AND MAINTENANCE

The fiscal year 2022 Department of Defense operation and maintenance budget request totals \$253,623,852,000. The Committee recommendation provides \$254,320,053,000 for the operation and maintenance accounts. The table below summarizes the Committee recommendations:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RECAPITULATION			
OPERATION & MAINTENANCE, ARMY.....	54,816,397	54,343,985	-272,432
OPERATION & MAINTENANCE, NAVY.....	60,441,228	61,086,598	+645,370
OPERATION & MAINTENANCE, MARINE CORPS.....	9,024,791	9,090,653	+65,862
OPERATION & MAINTENANCE, AIR FORCE.....	53,876,475	53,758,803	-119,872
OPERATION & MAINTENANCE, SPACE FORCE.....	3,440,712	3,372,212	-68,500
OPERATION & MAINTENANCE, DEFENSE-WIDE.....	44,818,366	45,306,975	+388,609
AFGHANISTAN SECURITY FORCES FUND.....	3,327,810	3,045,341	-282,469
COUNTER ISIS TRAIN AND EQUIP FUND (CTEF).....	522,000	600,000	+22,000
OPERATION & MAINTENANCE, ARMY RESERVE.....	3,000,635	2,992,135	-8,500
OPERATION & MAINTENANCE, NAVY RESERVE.....	1,148,698	1,147,698	-1,000
OPERATION & MAINTENANCE, MARINE CORPS RESERVE.....	285,080	286,550	+1,500
OPERATION & MAINTENANCE, AIR FORCE RESERVE.....	3,352,106	3,335,606	-16,500
OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.....	7,647,209	7,617,209	-30,000
OPERATION & MAINTENANCE, ATR NATIONAL GUARD.....	6,574,020	6,568,750	-5,270
UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES...	15,589	15,589	---
ENVIRONMENTAL RESTORATION, ARMY.....	200,806	251,008	+50,202
ENVIRONMENTAL RESTORATION, NAVY.....	298,250	372,813	+74,563
ENVIRONMENTAL RESTORATION, AIR FORCE.....	301,768	377,210	+75,442
ENVIRONMENTAL RESTORATION, DEFENSE-WIDE.....	8,783	10,979	+2,196
ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES	218,580	292,580	+74,000
OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID.....	110,051	150,051	+40,000
COOPERATIVE THREAT REDUCTION ACCOUNT.....	239,849	344,849	+105,000
ODD ACQUISITION WORKFORCE DEVELOPMENT FUND.....	54,879	54,879	---
GRAND TOTAL, OPERATION & MAINTENANCE.....	293,623,652	254,320,053	+698,201

# 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 this 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
- Base support

*Space Force:*

Global C3I and early warning

Space operations

Contractor logistics support and system support

Administration

*Air National Guard:*

Aircraft operations

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

*Operation and Maintenance, Army National Guard:*

Base operations support

Facilities sustainment, restoration, and modernization

*Operation and Maintenance, Air National Guard:*

Aircraft operations

Contractor logistics support and systems support

## REPROGRAMMING GUIDANCE FOR SPECIAL OPERATIONS COMMAND

The Committee directs the Secretary of Defense to submit a baseline report that shows the Special Operations Command's operation and maintenance funding by sub-activity group for the fiscal year 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 and the movement of any base funds used to support overseas contingency operations. Finally, the Secretary of Defense is directed to notify the congressional defense committees 30 days prior to the realignment of funds in excess of \$10,000,000 between sub-activity groups.

## OPERATION AND MAINTENANCE SPECIAL INTEREST ITEMS

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

## QUARTERLY OPERATION AND MAINTENANCE UPDATES

Regular interaction with each of the Service's financial management offices enhances the ability of the Committee to perform its essential oversight responsibilities. Through these interactions, the Committee gains a better understanding of the challenges each of the Services face with the obligation and execution of their programs and contracts. The Committee notes the successful quarterly meetings this year with each of the Services and directs the Direc-



tor of each of the Service's Operations Divisions (Financial Management and Budget) to continue to provide quarterly briefings to the House and Senate Appropriations Committees on their respective operation and maintenance execution rates in fiscal year 2022.

#### RESTORING READINESS

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

#### TUITION ASSISTANCE PROGRAM

The Committee recognizes that servicemembers can utilize the Military Tuition Assistance Programs (TAP) 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, the Committee is concerned that the current academic and career advising programs do not provide structured guidance that aligns military and civilian workforce requirements with TAP education programs and courses. The Committee 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 TAP 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.

#### MILITARY CRIMINAL INVESTIGATIVE ORGANIZATIONS

The Committee recognizes that Military Criminal Investigative Organizations (MCIOs), which include the United States Army Criminal Investigation Division, the Naval Criminal Investigative Service, and the Air Force Office of Special Investigations, play a critical role in bringing servicemembers who commit felonies to justice. As the volume and complexity of investigations increase, including the doubling of sexual assault cases over the last decade, the resources made available to the MCIOs by the Services have not kept pace. Additional resources and significant reforms to the structure of each of the MCIOs will help address these shortfalls. The Committee encourages the Service Secretaries to review the re-

quirements for their specific MCIOs commensurate with their increased caseloads; hire, train, and equip digital forensics examiners capable of downloading and analyzing mobile phone and laptop data at each large installation; hire more civilian special agents; and refrain from making mid-year budget reductions to the MCIOs.

#### PILOT SHORTAGES

The Committee supports efforts throughout the Department of Defense to address the shortage of pilots across the Services. The Committee encourages the Secretary of Defense to work with higher education institutions, including Historically Black Colleges and Universities, Hispanic Serving Institutions, and other Minority Serving Institutions, to develop programs that will prepare more students to meet the eligibility requirements for pilot training. In addition, the Committee encourages the Secretary of the Air Force to examine university-based training for Air Force ROTC cadets and civilian aviation students as pilots and sensor operators for remotely piloted aircraft. The Committee directs the Secretary of Defense, in coordination with the Service Secretaries, to submit a report to the congressional defense committees on these efforts not later than 90 days after the enactment of this Act.

#### MINORITY AND WOMEN OWNED BUSINESSES

The Committee is concerned that the Department of Defense does not take full advantage of the products and services available to the Department from minority and women-owned small businesses. The Committee directs the Secretary of Defense to submit a report to the House and Senate Appropriations Committees not later than 60 days after the enactment of this Act, and quarterly thereafter, on the Department's efforts to work with minority and women-owned small businesses. The report shall specify the number and value of Department of Defense contracts for minority and women-owned small businesses and include a description of specific outreach programs the Department uses to reach minority and women-owned small businesses.

#### MILITARY FOOD TRANSFORMATION

The Committee remains concerned about the growing obesity crisis in the Department of Defense and its impact on military recruitment, readiness, and retention. To address this challenge, the Committee directs the Secretary of Defense to establish a food transformation cell, similar to the office that led the Healthy Base Initiative, not later than 90 days after the enactment of this Act. The food transformation cell shall be composed of subject matter experts in food service operations who possess knowledge of modern healthy food delivery systems and an understanding of all aspects of Department of Defense laws and policies related to food service.

This cell should develop and execute a plan for improving on-base accessibility to healthfully prepared and pre-prepared food. The plan should leverage leading practices from university and private-sector campus dining, and lessons learned from previous Department of Defense food service transformation efforts. The Com-

mittee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act which provides an outline of these efforts.

Further, the Committee encourages the Secretary of Defense to use the Department's proposed plan to conduct demonstration pilots at two installations per Service. Where appropriate, pilot sites should partner with the local community to improve the food environment and encourage smart eating. The goal of each pilot should be to develop and test appropriate business models that increase the availability, affordability, and acceptability of healthy performance foods. Each pilot should also include expansion of the use of the meal card by servicemembers at exchange-controlled food locations and morale, welfare, and recreation-controlled food locations.

#### MEALS READY-TO-EAT WAR RESERVE

The Committee recommendation fully supports the fiscal year 2022 request for the Defense Logistics Agency for a minimum of 2,500,000 cases of meals ready-to-eat and reaffirms support for the War Reserve stock objective of 5,000,000 cases.

#### GEO-ECONOMICS, INNOVATION, AND NATIONAL SECURITY

The Committee recognizes that the long-term national security challenges for the United States are broad and encompass not just military preparedness but also the economic, technological, and political spheres. The Committee is concerned that professional military education is not keeping pace with rapid developments in geo-economics, innovation, and national security, and believes that the education of military officers and other national security leaders must include all aspects of great power competition. The Committee encourages the Secretary of Defense and the Service Secretaries to explore opportunities, including the establishment of public-private partnerships, to research, develop, and implement professional military education course curricula related to geo-economics, innovation, and national security.

#### HARD-TO-FILL POSITIONS

The Committee supports improving the coordination of federal efforts involved in growing and sustaining a robust defense workforce. To help achieve this for the Department of Defense, the Committee directs the Secretary of Defense and the Service Secretaries to provide a report to the congressional defense committees not later than 60 days after the enactment of this Act which details both civilian and military hard-to-fill positions in the Department of Defense and the Services. The report should include how the Department and Services' modernization strategies may impact these needs and possible future gaps in the next five to ten years.

The Committee recognizes that the Department and Services' hiring authorities can generally classify a position as civilian, contractor, or military. For civilian and contractor positions, the Department and Services must comply with the Office of Personnel Management's occupation codes and Federal Acquisition Regulations for minimal education and work experience requirements, respectively. The Committee believes there is an opportunity to lever-

age the variation in the hiring authorities' decision making on position classification, education, and work experience requirements for comparable positions to assess whether these variable categories are positively associated with recruitment for hard-to-fill positions. The Committee directs the Under Secretary of Defense for Personnel and Readiness and the Service Secretaries to provide a report to the congressional defense committees not later than 120 days after the enactment of this Act which evaluates the effect of these three variables on recruitment for comparable hard-to-fill positions in the Department and Services. The report should include an evaluation of the three variables on recruitment of women, minorities, individuals with disabilities, and veterans for hard-to-fill positions.

In addition, the Committee is concerned about hiring gaps relating to Career and Technical Education (CTE) and Science, Technology, Engineering, and Math (STEM) programs and careers throughout the Department of Defense. The Committee directs the Secretary of Defense to coordinate with the Service Secretaries to provide a report to the congressional defense committees not later than 60 days after the enactment of this Act that delineates the programs and funding levels relating to CTE and STEM programs in the Department of Defense. The report should clearly identify any programs and funding that promotes advancement for females, minorities, individuals with disabilities, military students, or veterans. For each program, the report should include the award recipients' funding amount, use, and the effectiveness of the program to recruit students into CTE or STEM programs or careers in the Department, Services, or defense industry.

After the above-mentioned report is delivered to Congress, the Committee directs the Secretary of Defense to establish a Defense CTE and STEM Education and Workforce Pipeline Strategy. The Committee directs the Secretary of Defense to provide an initial overview of the strategy to the congressional defense committees not later than 45 days after the delivery of the above report with a final report to be provided to the congressional defense committees not later than 270 days after the enactment of this Act.

The Secretary of Defense should coordinate with the Secretaries of Education, Energy, Labor, and Veterans Affairs, and the Director of the Office of Science and Technology Policy on this strategy. The strategy should include an analysis of currently hard-to-fill positions and those in the next five to ten years. The strategy should also provide recommendations on creating and/or modifying all levels of current CTE and STEM programs and funding to develop a comprehensive group of programs to address current and possible future defense workforce gaps in this arena. Within the recommendations, particular emphasis should be placed on programs that encourage women, minorities, individuals with disabilities, and veterans to pursue CTE and STEM careers.

#### RECRUITING AND RETENTION FOR HARD-TO-FILL POSITIONS

The Committee is concerned that Department of Defense recruiting and retention programs are not as effective as they could be to employ personnel for the challenging types of vacancies the Department and the Services have. To address this need, the Committee

directs the Under Secretary of Defense for Personnel and Readiness and the Service Secretaries to provide an initial overview to the congressional defense committees not later than 60 days after the enactment of this Act, and quarterly updates thereafter on the progress of the report, with a final report due not later than 270 days after the enactment of this Act. The initial overview and subsequent report shall align enlisted and officer recruitment incentives, education and workforce development programs, retention incentives, and manpower requirements, for hard-to-fill positions for each Service.

The report should include an annual survey to ensure requirements are matched to goals to fill these positions. The report should include desired educational and technical skills, retention incentives, education or workforce development programs and enrollment, and recruitment incentives for hard-to-fill positions. The report should identify all relevant entities, an overview of their responsibilities, and a formal means of evaluation between entities. The report should address how each Service will utilize the survey to incorporate its modernization priorities into each of the listed constructs. Finally, the report should include an overview of modernization-related changes to these incentives and programs and their estimated costs.

#### ADVERTISING

The Committee notes that, as the largest advertiser in the United States, the federal government should work to ensure fair access to its advertising contracts for small disadvantaged businesses and businesses owned by minorities and women. The Committee directs the Secretary of Defense to include with the fiscal year 2023 budget submission the total level of expenditures for fiscal year 2022 and the requested level of funding for fiscal year 2023 for all contracts for advertising services; contracts for advertising services by minority or women owned businesses; and contracts for advertising services by socially and economically disadvantaged small businesses (as defined in section 8(a)(4) of the Small Business Act (15 U.S.C. 637(a)(4)).

#### LANGUAGE FLAGSHIP PROGRAM

The Committee recognizes the National Security Education Program provides training for servicemembers and civilians in languages and cultures critical to national security. The Committee recommendation restores the funding removed in the budget request for this critical program and includes a total of \$22,000,000 for the program. The Committee encourages the Secretary of Defense to continue supporting programs that ensure warfighters receive the language and culture training needed to effectively complete missions. Additionally, the Committee directs the Secretary of Defense to submit a spend plan for this program's funding to the House and Senate Appropriations Committees not later than 15 days before the obligation of funds.

The Committee is concerned about the lack of military personnel with advanced language skills and believes this could be addressed by promoting foreign language study programs targeting elementary and secondary students. The National Defense Authorization

Act for Fiscal Year 2020 authorized the development of a competitive grant program to provide support to eligible entities, including Department of Defense Education Activity schools, for the establishment, improvement, or expansion of world language study for this population. In support of this program, the Committee recommendation includes an additional \$15,000,000 for Department of Defense Education Activity schools. The Committee directs the Secretary of Defense to provide a detailed spend plan to the House and Senate Appropriations Committees for the implementation of the program, which should commence with the 2022–2023 academic year, not later than 45 days after the enactment of this Act.

Additionally, the Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than October 1, 2022 which lists the schools that receive funds, in what amount, and how the funds were executed, as well as how the Department plans to expand the program to public schools in a local education agency that hosts a unit of the Junior Reserve Officers Corps Training Center, in the following academic year.

#### CLOSE AIR SUPPORT

The Committee notes the January 2021 report released by the Government Accountability Office entitled “Close Air Support: Actions Needed to Enhance Friendly Force Tracking Capabilities and Fully Evaluate Training” included recommendations to prevent friendly fire incidents in this type of operation. The Committee encourages the Secretary of Defense to fully implement the report’s recommendations. Further, the Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on the status of the implementation of the recommendations.

#### UNPLANNED EXERCISES

The Committee is aware that the Secretary of Defense, upon the recommendation of the Joint Chiefs of Staff, may order impromptu operations for each of the Services for execution in the different combatant commands. Given the inability of the Department of Defense to provide prior budgetary information for such unplanned exercises to the congressional defense committees due to the ambiguity of the schedule, the Committee directs the Secretary of Defense to submit a quarterly report on the use of operation and maintenance funds for activities or exercises in excess of \$5,000,000 that are designated as unplanned activities for fiscal year 2022. The reports shall include, but not be limited to the title, date, location, and which Services and units participated (with an estimated number of participants); the total cost, by budget line item (with a breakdown by cost element such as transportation); and a short explanation of the objective.

The reports may be provided with a classified annex, as necessary, and shall be submitted to the congressional defense committees not later than 30 days after the close of each quarter of the fiscal year.

## CHILDCARE

The Committee appreciates the efforts the Services have made over the past two years to address the readiness limitations that military personnel face when there is limited access to appropriate childcare. The Committee encourages each of the Service Secretaries to investigate expanding access to childcare for servicemembers during irregular times, such as evenings and weekends. The Committee directs the Service Secretaries to provide a report to the congressional defense committees not later than 90 days after the enactment of this Act which describes methodologies to meet these demands and the approximate costs of expanding these opportunities for military personnel.

## ALIGNING CIVILIAN AND MILITARY EDUCATION FOR WORKFORCE DEVELOPMENT

The Committee directs the Under Secretary of Defense for Personnel and Readiness and the Service Secretaries to provide a report to the congressional defense committees not later than 120 days after the enactment of this Act that aligns enlisted and officer military education and workforce development programs with civilian education and workforce development programs for each Service. The report should include how each Service utilizes this information for servicemember recruitment and retention, and for transitioning servicemembers to translate their education and work experience into the civilian education system and workforce. In cases where there is an incomparable military education or workforce development program to align with civilian stackable certificates, associate's degrees, and bachelor's degrees, the Under Secretary of Defense for Personnel and Readiness and the Service Secretaries must identify and justify the lack of a comparable military education program on the basis of the Service's manpower requirements or cost efficiency.

## VIEQUES AND CULEBRA

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

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

plicable to Culebra and Vieques, to include particular emphasis on the decontamination of the northwest peninsula of Culebra.

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

#### INDIAN FINANCING ACT

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

#### PFOS/PFOA EXPOSURE ASSESSMENT

The National Defense Authorization Act for Fiscal Year 2021 authorized a study and assessment of the health implications of perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) contamination in drinking water. The Committee recommendation includes \$15,000,000 for the study and assessment. The Committee also directs the Assistant Secretary of Defense for Energy, Installations, and Environment to submit a report to the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act on the Department's strategy to execute this funding.

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

Additionally, the Committee directs the Department to comply with the provisions of section 322 of the National Defense Authorization Act for Fiscal Year 2020. The Committee notes that today's currently available Aqueous Film Forming Foams (AFFF) contain Per- and Polyfluoroalkyl Substances (PFAS) and currently, none of the commercially available PFAS-free foams meet the Department's strict safety standards to rapidly extinguish dangerous fuel fires. The Committee understands that a prohibition on the use of current versions of AFFF would drastically reduce the ability of the



Department's firefighters to fight fuel fires and increase risk to servicemembers and firefighters. However, due to the significant and salient public health risks associated with PFOS/PFOA contamination, the Committee urges the Secretary of Defense to expedite replacement of fluorinated AFFF throughout all branches of the military and cease use of AFFF prior to October 1, 2024.

#### PER- AND POLYFLUOROALKYL SUBSTANCES CLEANUP COST REPORTING

The Committee notes the creation of a Per- and Polyfluoroalkyl Substances (PFAS) Task Force to address the growing health concerns over releases of these substances and their effects on military installations and the surrounding communities. To support the Department's efforts, the Committee directs the Secretary of Defense to submit to the House and Senate Appropriations Committees, not later than 90 days after the enactment of this Act, and semi-annually thereafter, a report on costs associated with investigating and cleaning up PFAS at sites with funding provided by either the environmental restoration or operation and maintenance appropriation accounts. The report shall provide, for each component and by installation name, for the investigation and cleanup of PFAS: the actual obligations through the end of fiscal year 2019; the actual obligations in fiscal year 2020; the planned and actual obligations in fiscal year 2021; the planned obligations for fiscal year 2022; and the estimated cost after fiscal year 2022.

#### PERFLUORINATED CHEMICALS CONTAMINATION AND FIRST RESPONDER EXPOSURE

The Committee remains concerned with the health implications of exposure to perfluorinated chemicals (PFCs), including the increased rate of cancer in Department of Defense firefighter and first responder personnel. The Committee understands there are ongoing efforts to develop an alternative firefighting foam that meets military requirements and is free from PFCs that have been linked to higher rates of certain cancers. Given the lack of definitive guidance around exposure levels, the Committee encourages the Secretary of Defense to accelerate adoption of other forms of foam that meet military specifications and do not contain PFCs. Further, the Committee understands that testing for firefighters for exposure to PFCs has begun and that the Department is developing firefighter population-level summation statistics for PFCs blood sampling of firefighters. The Committee is encouraged by these efforts but believes that additional measures need to be taken. The Committee directs the Assistant Secretary of Defense for Health Affairs to provide a report to the House and Senate Appropriations Committees not later than 180 days after the enactment of this Act on the Department's ongoing efforts to test and track potential first responder exposure to these chemicals as part of their existing, annual medical surveillance exams.

#### MINIMUM WAGE

The Committee concurs with Executive Order 14026 which increases the minimum wage for federal contractors to at least \$15 per hour. The Committee understands that the Department of De-

fense did not budget for this level of compensation for its non-appropriated funded employees for fiscal year 2022. The Committee requires a better understanding of the scope of the cost for the Department and the Services for non-appropriated funded employees. Therefore, the Committee directs the Secretary of Defense and the Service Secretaries to provide a report to the congressional defense committees not later than 60 days after the enactment of this Act that includes an overview of the number of non-appropriated funded personnel that do not receive at least \$15 per hour for their employment; the cost to provide every non-appropriated funded employee with a salary of at least \$15 per hour; and how those costs could be addressed in the fiscal year 2023 budget request submission.

#### OPERATION AND MAINTENANCE, ARMY

Fiscal year 2022 budget request .....	\$54,616,397,000
Committee recommendation .....	54,343,965,000
Change from budget request .....	-272,432,000

The Committee recommends an appropriation of \$54,343,965,000 for Operation and Maintenance, Army which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
OPERATION AND MAINTENANCE, ARMY				
BUDGET ACTIVITY 1: OPERATING FORCES				
10	LAND FORCES MANEUVER UNITS.....	3,583,856	3,513,856	-50,000
20	MODULAR SUPPORT BRIGADES.....	142,082	142,082	---
30	ECHELONS ABOVE BRIGADES.....	758,174	758,174	---
40	THEATER LEVEL ASSETS.....	2,753,783	2,653,783	-100,000
50	LAND FORCES OPERATIONS SUPPORT.....	1,110,156	1,110,156	---
60	AVIATION ASSETS.....	1,795,522	1,770,522	-25,000
70	LAND FORCES READINESS FORCE READINESS OPERATIONS SUPPORT.....	7,442,976	7,367,976	-75,000
80	LAND FORCES SYSTEMS READINESS.....	580,921	580,921	-20,000
90	LAND FORCES DEPOT MAINTENANCE.....	1,257,959	1,257,959	---
100	MEDICAL READINESS.....	1,102,964	1,102,964	---
110	LAND FORCES READINESS SUPPORT BASE OPERATIONS SUPPORT.....	8,876,603	8,876,203	-2,400
120	FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION..	4,051,869	4,031,869	-20,000
130	HANAGEMENT AND OPERATIONAL HEADQUARTERS.....	289,891	289,891	---
140	ADDITIONAL ACTIVITIES.....	526,517	461,517	-75,000
160	RESET.....	397,196	352,196	-45,000
170	COMBATANT COMMAND SUPPORT US AFRICA COMMAND.....	384,791	457,131	+72,340
180	US EUROPEAN COMMAND.....	293,932	294,182	+250
190	US SOUTHERN COMMAND.....	198,726	197,101	-375
200	US FORCES KOREA.....	67,052	67,052	---
210	CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	621,836	588,836	-53,000
220	CYBER SPACE ACTIVITIES - CYBERSECURITY.....	629,437	609,437	-20,000
	TOTAL, BUDGET ACTIVITY 1.....	36,846,243	36,433,808	-412,435

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
BUDGET ACTIVITY 2: MOBILIZATION				
230	MOBILITY OPERATIONS 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 OFFICER ACQUISITION.....	163,568	163,568	---
270	RECRUIT TRAINING.....	75,140	74,140	-1,000
280	ONE STATION UNIT TRAINING.....	81,274	81,274	---
290	SENIOR RESERVE OFFICERS TRAINING CORPS.....	520,973	520,973	---
300	BASIC SKILL AND ADVANCED TRAINING SPECIALIZED SKILL TRAINING.....	998,869	998,869	---
310	FLIGHT TRAINING.....	1,309,556	1,309,556	---
320	PROFESSIONAL DEVELOPMENT EDUCATION.....	218,651	218,651	---
330	TRAINING SUPPORT.....	616,380	611,380	-5,000
340	RECRUITING AND OTHER TRAINING AND EDUCATION RECRUITING AND ADVERTISING.....	683,569	653,569	---
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	-2,800
380	JUNIOR RESERVE OFFICERS TRAINING CORPS.....	187,569	187,569	---
TOTAL, BUDGET ACTIVITY 3.....		5,460,523	5,451,703	-8,800
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES				
400	LOGISTICS OPERATIONS SERVICEWIDE TRANSPORTATION.....	684,562	672,562	-12,000
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 ADMINISTRATION.....	488,535	484,535	-4,000
450	SERVICEWIDE COMMUNICATIONS.....	1,952,742	1,962,742	+10,000

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
460 HANPOWER MANAGEMENT.....	323,273	323,273	---
470 OTHER PERSONNEL SUPPORT.....	663,602	663,602	---
480 OTHER SERVICE SUPPORT.....	2,004,981	1,981,381	-23,600
490 ARMY CLAIMS ACTIVITIES.....	180,178	180,178	---
500 REAL ESTATE MANAGEMENT.....	268,009	272,509	+3,500
510 FINANCIAL MANAGEMENT AND AUDIT READINESS.....	437,940	437,940	---
520 INTERNATIONAL MILITARY HEADQUARTERS.....	482,571	482,571	---
530 MISC. SUPPORT OF OTHER NATIONS.....	29,870	29,870	---
OTHER PROGRAMS			
CLASSIFIED PROGRAMS.....	2,008,633	2,008,286	-347
TOTAL, BUDGET ACTIVITY 4.....	11,570,662	11,544,235	-26,427
HISTORICAL UNOBLIGATION.....	---	-125,000	-125,000
P.L. 115-68 IMPLEMENTATION.....	---	250	+250
RESTORE READINESS.....	---	300,000	+300,000
TOTAL, OPERATION AND MAINTENANCE, ARMY.....	54,816,397	54,343,965	-272,432

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
**(In thousands of dollars)**

<b>O-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>111 MANEUVER UNITS</b>	<b>3,563,856</b>	<b>3,513,856</b>	<b>-50,000</b>
Unjustified growth		-50,000	
<b>114 THEATER LEVEL ASSETS</b>	<b>2,753,783</b>	<b>2,653,783</b>	<b>-100,000</b>
Unjustified growth		-100,000	
<b>116 AVIATION ASSETS</b>	<b>1,795,522</b>	<b>1,770,522</b>	<b>-25,000</b>
Unjustified growth		-25,000	
<b>121 FORCE READINESS OPERATIONS SUPPORT</b>	<b>7,442,976</b>	<b>7,367,976</b>	<b>-75,000</b>
Unjustified growth		-100,000	
Program increase - camouflage		20,000	
Program increase - human optimization		5,000	
<b>122 LAND FORCES SYSTEMS READINESS</b>	<b>580,921</b>	<b>560,921</b>	<b>-20,000</b>
Unjustified growth		-20,000	
<b>131 BASE OPERATIONS SUPPORT</b>	<b>8,878,603</b>	<b>8,876,203</b>	<b>-2,400</b>
Unjustified growth		-10,000	
Program increase - PFAS remediation		6,600	
Program increase - renaming institutions		1,000	
<b>FACILITIES SUSTAINMENT, RESTORATION, &amp; MODERNIZATION</b>	<b>4,051,869</b>	<b>4,031,869</b>	<b>-20,000</b>
Unjustified growth		-20,000	
<b>135 ADDITIONAL ACTIVITIES</b>	<b>526,517</b>	<b>451,517</b>	<b>-75,000</b>
Unjustified growth - Afghanistan reconciliation		-15,000	
Unjustified growth		-60,000	
<b>137 RESET</b>	<b>397,196</b>	<b>352,196</b>	<b>-45,000</b>
Unjustified growth		-45,000	
<b>141 US AFRICA COMMAND</b>	<b>384,791</b>	<b>457,131</b>	<b>72,340</b>
Program increase - P.L. 115-68		340	
Program increase - natural resources management		5,000	
Program increase - ISR		67,000	
<b>142 US EUROPEAN COMMAND</b>	<b>293,932</b>	<b>294,182</b>	<b>250</b>
Program increase - P.L. 115-68		250	
<b>143 US SOUTHERN COMMAND</b>	<b>196,726</b>	<b>197,101</b>	<b>375</b>
Program increase - P.L. 115-68		375	
<b>CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS</b>	<b>621,836</b>	<b>566,836</b>	<b>-55,000</b>
Unjustified growth		-55,000	
<b>153 CYBER SPACE ACTIVITIES - CYBERSECURITY</b>	<b>629,437</b>	<b>609,437</b>	<b>-20,000</b>
Unjustified growth		-20,000	

O-1	Budget Request	Committee Recommended	Change from Request
312 RECRUIT TRAINING Unjustified growth	75,140	74,140 -1,000	-1,000
324 TRAINING SUPPORT Unjustified growth	616,380	611,380 -5,000	-5,000
334 CIVILIAN EDUCATION AND TRAINING Unjustified growth	220,589	217,789 -2,800	-2,800
421 SERVICEWIDE TRANSPORTATION Unjustified growth	684,562	672,562 -12,000	-12,000
431 ADMINISTRATION Unjustified growth	488,535	484,535 -4,000	-4,000
432 SERVICEWIDE COMMUNICATIONS Program increase - alternatives to GPS	1,952,742	1,962,742 10,000	10,000
435 OTHER SERVICE SUPPORT Army Futures Command - unjustified personnel growth Program increase - Capitol Fourth	2,004,981	1,981,381 -25,000 1,400	-23,600
437 REAL ESTATE MANAGEMENT Program increase - real estate inventory tool	269,009	272,509 3,500	3,500
411 OTHER PROGRAMS Classified adjustment	2,008,633	2,008,286 -347	-347
RESTORE READINESS		300,000	300,000
HISTORICAL UNOBLIGATED BALANCES		-125,000	-125,000
P.L. 115-68 IMPLEMENTATION		250	250

## SMALL BUSINESS AND ARMY FUTURES COMMAND

The Committee is concerned with the findings of the Government Accountability Office in its report, "Army Future Command Should Take Steps to Improve Small Business Engagement for Research and Development," which notes the lack of coordination between the Army Futures Command and small businesses. The Committee recognizes the importance of small businesses to the Department of Defense and encourages the Commanding General, Army Futures Command, to develop methods to improve small business engagement for research and development and to coordinate with the Army Office of Small Business Programs in its engagement efforts. The Committee directs the Secretary of the Army to create performance measures to track the Army Futures Command's efforts and to submit a report to the congressional defense committees on these efforts not later than 90 days after the enactment of this Act.

## UNITED STATES MILITARY ACADEMY

The Committee understands the United States Military Academy at West Point and Army Installation Management Command have developed a Sustainment, Restoration and Modernization (SRM) Bridge Plan to ensure that facilities at Camp Buckner and Camp Natural Bridge can sustain cadet training along with associated training task force housing requirements. The Committee appreciates this plan, which bridges the gap to planned military construction investments starting in fiscal year 2026. The Committee encourages the Secretary of the Army to robustly fund the SRM Bridge Plan in accordance with programmed amounts to ensure cadets and the associated training task force have the facilities necessary to carry out essential training.

## EQUIPMENT AND FACILITIES SUSTAINMENT

The Committee notes the shift by the Army to a Holistic Health and Fitness system and recognizes the importance of equipment and facilities to a successful system. Given the ongoing requirement for functional fitness equipment, the Committee is concerned by the Army's lack of a centralized purchasing system for the acquisition of new fitness equipment and the absence of a plan for the sustainment of such equipment. The Committee directs the Secretary of the Army to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act that details sustainment plans for fielded equipment, refurbished or re-equipped fitness facilities, containerized strength equipment, Army combat fitness test lane equipment, and other commercial fitness equipment.

AFRICAN CONTINENT SECURITY AND NATURAL RESOURCES  
MANAGEMENT

The Committee is concerned that competition for scarce strategic resources and the impacts of climate change have led to increasing instability on the African continent. The Committee notes that land management and conservation efforts are an important tool to support security in resource-poor environments. The Committee recommendation includes an additional \$5,000,000 for the United



States Africa Command to partner with the United States Forest Service in support of international programs to develop land conservancies, prevent the trafficking of natural resources and protected animals, provide disaster assistance, address landscape-level water security, and develop a Youth Conservation Corps in African nations.

#### OPERATION AND MAINTENANCE, NAVY

Fiscal year 2022 budget request .....	\$60,441,228,000
Committee recommendation .....	61,086,598,000
Change from budget request .....	+645,370,000

The Committee recommends an appropriation of \$61,086,598,000 for Operation and Maintenance, Navy which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, NAVY			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 AIR OPERATIONS			
MISSION AND OTHER FLIGHT OPERATIONS.....	6,264,654	6,174,654	-90,000
20 FLEET AIR TRAINING.....	2,466,007	2,396,257	-69,750
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	-5,200
60 AIRCRAFT DEPOT MAINTENANCE.....	1,675,356	1,660,356	-15,000
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	5,822,028	-36,000
100 SHIP OPERATIONS SUPPORT AND TRAINING.....	1,154,696	1,154,696	---
110 SHIP DEPOT MAINTENANCE.....	10,300,078	10,200,078	-100,000
120 SHIP DEPOT OPERATIONS SUPPORT.....	2,188,454	2,188,454	---
COMBAT OPERATIONS/SUPPORT			
130 COMBAT COMMUNICATIONS.....	1,551,846	1,551,846	---
140 SPACE SYSTEMS AND SURVEILLANCE.....	327,251	327,251	---
150 WARFARE TACTICS.....	798,082	798,082	---
160 OPERATIONAL METEOROLOGY AND OCEANOGRAPHY.....	447,488	447,488	---
170 COMBAT SUPPORT FORCES.....	2,250,756	2,235,756	-15,000
180 EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS SUPPORT....	192,968	192,968	---
190 COMBATANT COMMANDERS CORE OPERATIONS.....	61,614	66,214	+4,600
200 COMBATANT COMMANDERS DIRECT MISSION SUPPORT.....	198,596	189,596	-9,000
210 MILITARY INFORMATION SUPPORT OPERATIONS.....	8,984	8,984	---
220 CYBERSPACE ACTIVITIES.....	565,926	565,926	---
WEAPONS SUPPORT			
230 FLEET BALLISTIC MISSILE.....	1,476,247	1,476,247	---
240 WEAPONS MAINTENANCE.....	1,538,743	1,508,743	-30,000
250 OTHER WEAPON SYSTEMS SUPPORT.....	592,357	592,357	---

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
260 BASE SUPPORT			
ENTERPRISE INFORMATION.....	734,970	1,473,970	+739,000
270 SUSTAINMENT, RESTORATION AND MODERNIZATION.....	2,981,937	3,002,937	+41,000
280 BASE OPERATING SUPPORT.....	4,828,314	4,826,314	---
TOTAL, BUDGET ACTIVITY 1.....	51,225,390	51,641,040	+416,650
BUDGET ACTIVITY 2: MOBILIZATION			
SHIP PREPOSITIONING AND SURGE.....	457,015	457,015	---
300 READY RESERVE FORCE.....	645,522	645,522	---
310 SHIP ACTIVATIONS/INACTIVATIONS.....	353,530	349,030	-4,500
320 EXPEDITIONARY HEALTH SERVICES SYSTEMS.....	149,384	149,384	---
330 COAST GUARD SUPPORT.....	20,639	20,639	---
TOTAL, BUDGET ACTIVITY 2.....	1,626,090	1,621,590	-4,500
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.....	187,152	187,152	---
BASIC SKILLS AND ADVANCED TRAINING			
SPECIALIZED SKILL TRAINING.....	1,053,104	1,053,104	---
380 PROFESSIONAL DEVELOPMENT EDUCATION.....	311,209	311,209	---
390 TRAINING SUPPORT.....	306,302	306,302	---
RECRUITING, AND OTHER TRAINING AND EDUCATION			
RECRUITING AND ADVERTISING.....	205,219	205,219	---
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	+5,000
TOTAL, BUDGET ACTIVITY 3.....	2,475,842	2,480,842	+5,000
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
SERVICEWIDE SUPPORT			
ADMINISTRATION.....	1,288,951	1,290,951	+22,000
450 CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT.....	212,952	210,452	-2,500
460 MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....	562,546	557,546	-5,000
470 MEDICAL ACTIVITIES.....	285,436	285,436	---

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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	-1,500
OTHER PROGRAMS			
CLASSIFIED PROGRAMS.....	607,517	603,477	-4,040
TOTAL, BUDGET ACTIVITY 4.....	5,113,906	5,122,866	+8,960
HISTORICAL UNOBLIGATION.....	---	-80,000	-80,000
P.L. 115-89 IMPLEMENTATION.....	---	260	+260
RESTORE READINESS.....	---	300,000	+300,000
=====			
TOTAL, OPERATION AND MAINTENANCE, NAVY.....	60,441,228	61,086,596	+645,370
=====			

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

D-1	Budget Request	Committee Recommended	Change from Request
<b>1A1A MISSION AND OTHER FLIGHT OPERATIONS</b>	<b>6,264,654</b>	<b>6,174,654</b>	<b>-90,000</b>
Unjustified growth		-90,000	
<b>1A2A FLEET AIR TRAINING</b>	<b>2,465,007</b>	<b>2,396,287</b>	<b>-68,750</b>
Unjustified growth		-68,750	
<b>1A4N AIR SYSTEMS SUPPORT</b>	<b>1,005,932</b>	<b>1,000,732</b>	<b>-5,200</b>
Unjustified growth		-5,200	
<b>1A5A AIRCRAFT DEPOT MAINTENANCE</b>	<b>1,675,356</b>	<b>1,660,356</b>	<b>-15,000</b>
Unjustified growth		-15,000	
<b>1B1B MISSION AND OTHER SHIP OPERATIONS</b>	<b>5,858,028</b>	<b>5,822,028</b>	<b>-36,000</b>
Unjustified growth		-36,000	
<b>1B4B SHIP DEPOT MAINTENANCE</b>	<b>10,300,078</b>	<b>10,200,078</b>	<b>-100,000</b>
Unjustified growth		-100,000	
<b>1C8C COMBAT SUPPORT FORCES</b>	<b>2,250,756</b>	<b>2,235,756</b>	<b>-15,000</b>
Unjustified growth		-15,000	
<b>1CCH COMBATANT COMMANDERS CORE OPERATIONS</b>	<b>61,614</b>	<b>66,214</b>	<b>4,600</b>
Program increase - Asia Pacific Regional Initiative		4,600	
<b>1CCM COMBATANT COMMANDERS DIRECT MISSION</b>	<b>198,596</b>	<b>189,596</b>	<b>-9,000</b>
Unjustified growth		-10,000	
Program increase - P.L. 115-68		1,000	
<b>1D4D WEAPONS MAINTENANCE</b>	<b>1,538,743</b>	<b>1,508,743</b>	<b>-30,000</b>
Unjustified growth		-30,000	
<b>BS1T ENTERPRISE INFORMATION TECHNOLOGY</b>	<b>734,970</b>	<b>1,473,970</b>	<b>739,000</b>
Unjustified growth		-44,000	
Transfer from RDTE, N line 255		778,000	
Program increase - form modernization		5,000	
<b>BSM1 SUSTAINMENT, RESTORATION &amp; MODERNIZATION</b>	<b>2,961,937</b>	<b>3,002,937</b>	<b>41,000</b>
Program increase - USNA seawall		31,000	
Program increase - seismic and fire protection		10,000	
<b>2B2G SHIP ACTIVATIONS/INACTIVATIONS</b>	<b>353,530</b>	<b>349,030</b>	<b>-4,500</b>
Program decrease - reverse decommissionings		-4,500	
<b>3CSL JUNIOR ROTC</b>	<b>57,323</b>	<b>62,323</b>	<b>5,000</b>
Program increase - STEM programs		5,000	
<b>4A1M ADMINISTRATION</b>	<b>1,266,981</b>	<b>1,290,981</b>	<b>22,000</b>
Unjustified growth		-3,000	
Program increase - Naval Audit Service		25,000	

O-1	Budget Request	Committee Recommended	Change from Request
<b>4A3M CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT</b>	<b>212,952</b>	<b>210,452</b>	<b>-2,500</b>
Unjustified growth		-2,500	
<b>4A4M MILITARY MANPOWER AND PERSONNEL</b>	<b>552,546</b>	<b>557,546</b>	<b>-5,000</b>
Unjustified growth		-5,000	
<b>4C1P INVESTIGATIVE AND SECURITY SERVICES</b>	<b>736,187</b>	<b>736,687</b>	<b>-1,500</b>
Unjustified growth		-1,500	
<b>999 OTHER PROGRAMS</b>	<b>607,517</b>	<b>603,477</b>	<b>-4,040</b>
Classified adjustment		-4,040	
<b>RESTORE READINESS</b>		<b>300,000</b>	<b>300,000</b>
<b>HISTORICAL UNOBLIGATED BALANCES</b>		<b>-80,000</b>	<b>-80,000</b>
<b>P.L. 115-68 IMPLEMENTATION</b>		<b>260</b>	<b>260</b>

## SUBMARINE MAINTENANCE

The Committee notes that the Congressional Budget Office released a report on submarine maintenance activities which suggested that the Navy's actions are still off course. The Committee believes that the Navy must increase congressional confidence that the Service will be able to maintain its vessels effectively and efficiently. Therefore, the Committee directs the Secretary of the Navy to provide a quarterly report to the congressional defense committees, beginning not later than 30 days after the enactment of this Act, on the status of maintenance and repair work for submarines. The report shall include the amount of funding budgeted for submarine maintenance in fiscal year 2022 and the prior three years, the original estimated amount of time expected for maintenance activities to be completed, any adjustments to the schedule, the reasons why any changes were necessary, and the new expected timeframe for completion and any additional costs involved. The report shall be broken out by shipyard and/or private entity (by site), by name, and type of submarine. The report shall also include any new efforts the Navy has taken to address the delays it continues to face.

## AIRFRAME MAINTENANCE

In addition to submarine maintenance delays, the Committee notes delays have been reported on airframe repair and maintenance programs of the Department of the Navy. The Committee directs the Secretary of the Navy to provide quarterly reports to the congressional defense committees, beginning not later than 30 days after the enactment of this Act, on the status of maintenance and repair work for each airframe. The report shall include the amount of funding budgeted for airframe maintenance in fiscal year 2022 and the prior three years, the original estimated amount of time expected for maintenance activities to be completed, any adjustments to the schedule, the reasons why any changes were necessary, and the new expected timeframe for completion and any additional costs involved.

## MK VI PATROL BOATS

The Committee is concerned by conflicting announcements from the Department of the Navy regarding possible divestiture of Mk VI patrol boats from its inventory. Given these inconsistencies, the Committee directs the Secretary of the Navy to conduct a review prior to making any final decision on the program, and submit a report to the congressional defense committees not later than 60 days after the enactment of this Act that includes an assessment of the Mk VI platform's current and future mission capabilities; any capability gaps that are not currently fulfilled by the Mk VI fleet; any possible modifications necessary to ensure identified capability gaps are filled and the system engineering, testing, and evaluation data to support such conclusions; the vessel's utility in foreign partnership building and engagement with allies; and the Navy's proposal to independently fulfill current and future patrol boat missions.

# OPERATION AND MAINTENANCE, MARINE CORPS

Fiscal year 2022 budget request .....	\$9,024,791,000
Committee recommendation .....	9,090,653,000
Change from budget request .....	+65,862,000

The Committee recommends an appropriation of \$9,090,653,000 for Operation and Maintenance, Marine Corps which will provide the following program in fiscal year 2022:



OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
OPERATION AND MAINTENANCE, MARINE CORPS				
BUDGET ACTIVITY 1: OPERATING FORCES				
10	EXPEDITIONARY FORCES			
	OPERATIONAL FORCES.....	1,587,456	1,604,858	+17,500
20	FIELD LOGISTICS.....	1,532,630	1,527,630	-5,000
30	DEPOT MAINTENANCE.....	215,949	215,949	---
40	USMC PREPOSITIONING			
	MARITIME PREPOSITIONING.....	107,969	107,969	---
50	COMBAT OPERATIONS/SUPPORT			
	CYBERSPACE ACTIVITIES.....	233,486	230,486	-3,000
60	BASE SUPPORT			
	SUSTAINMENT, RESTORATION & MODERNIZATION.....	1,221,117	1,221,117	---
70	BASE OPERATING SUPPORT.....	2,563,278	2,560,278	-3,000
	TOTAL, BUDGET ACTIVITY 1.....	7,461,885	7,468,385	+6,500
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.....	61,639	61,539	---
120	TRAINING SUPPORT.....	490,975	481,975	-9,000
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	+3,000
	TOTAL, BUDGET ACTIVITY 3.....	988,280	982,280	-6,000
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES				
160	SERVICEWIDE SUPPORT			
	SERVICEWIDE TRANSPORTATION.....	100,475	100,475	---
170	ADMINISTRATION.....	410,729	410,729	---
	OTHER PROGRAMS			
	CLASSIFIED PROGRAMS.....	63,422	63,386	-36
	TOTAL, BUDGET ACTIVITY 4.....	574,626	574,590	-36

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
PROGRAM INCREASE - P.L. 115-68 IMPLEMENTATION.....	---	340	+340
HISTORICAL UNOBLIGATION.....	---	-10,000	-10,000
UNJUSTIFIED GROWTH.....	---	-26,000	-26,000
RESTORE READINESS.....	---	101,058	+101,058
=====			
TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS.....	9,024,791	9,090,653	+65,862
=====			

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

<b>O-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>1A1A OPERATIONAL FORCES</b>	<b>1,587,458</b>	<b>1,604,958</b>	<b>17,500</b>
Program increase - hearing enhancement and protection headsets		17,500	
<b>1A2A FIELD LOGISTICS</b>	<b>1,532,630</b>	<b>1,527,630</b>	<b>-5,000</b>
Unjustified growth		-5,000	
<b>1CCY CYBERSPACE ACTIVITIES</b>	<b>233,486</b>	<b>230,486</b>	<b>-3,000</b>
Unjustified growth		-3,000	
<b>B5S1 BASE OPERATING SUPPORT</b>	<b>2,563,278</b>	<b>2,560,278</b>	<b>-3,000</b>
Unjustified growth		-3,000	
<b>3B4D TRAINING SUPPORT</b>	<b>480,975</b>	<b>481,975</b>	<b>-9,000</b>
Unjustified growth		-9,000	
<b>3C3F JUNIOR ROTC</b>	<b>26,065</b>	<b>29,065</b>	<b>3,000</b>
Program increase - STEM programs		3,000	
<b>4A7G SECURITY PROGRAMS</b>	<b>63,422</b>	<b>63,386</b>	<b>-36</b>
Classified adjustment		-36	
<b>HISTORICAL UNOBLIGATED BALANCES</b>		<b>-10,000</b>	<b>-10,000</b>
<b>UNJUSTIFIED GROWTH</b>		<b>-26,000</b>	<b>-26,000</b>
<b>P.L. 115-68 IMPLEMENTATION</b>		<b>340</b>	<b>340</b>
<b>RESTORE READINESS</b>		<b>101,058</b>	<b>101,058</b>

## RQ-21A SYSTEM

The Committee recognizes that the RQ-21A system provides the Marine Corps and Naval Special Warfare operators a shipboard-capable Intelligence, Surveillance, and Reconnaissance (ISR) platform capable of delivering intelligence products directly to the tactical commander in real time. The Committee understands that the Marine Corps is implementing a gradual divestment of the current Group 3 RQ-21A system, adopting the Group 5 MQ-9 for medium altitude/long endurance surveillance, and developing future requirements for a new "Group 3 Light" long range/long endurance small unmanned aerial system for Marine Corps units. While the Committee acknowledges the need for a diversified portfolio, it is concerned with the omission of the RQ-21A system as a cost-effective, operationally proven solution for ISR delivery. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act which outlines the basis for the divestiture decision. Specifically, the report should explain the requirements driving the change, the RQ-21A's capacity to meet those requirements, the cost implications associated with the change, the estimated cost to upgrade the RQ-21A to satisfy the new requirements, the timeline for the divestiture of the RQ-21A system compared to the timeline for fielding the new unmanned aerial system concept, and the strategy for addressing any gap in capability that results from this transition.

## OPERATION AND MAINTENANCE, AIR FORCE

Fiscal year 2022 budget request .....	\$53,876,475,000
Committee recommendation .....	53,756,603,000
Change from budget request .....	- 119,872,000

The Committee recommends an appropriation of \$53,756,603,000 for Operation and Maintenance, Air Force which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, AIR FORCE			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 AIR OPERATIONS			
10 PRIMARY COMBAT FORCES.....	706,860	678,860	-28,000
20 COMBAT ENHANCEMENT FORCES.....	2,382,448	2,292,448	-90,000
30 AIR OPERATIONS TRAINING (OJT, MAINTAIN SKILLS).....	1,555,320	1,525,320	-30,000
40 DEPOT PURCHASE EQUIPMENT MAINTENANCE.....	3,681,762	3,625,762	-56,000
50 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	3,667,114	3,667,114	---
60 CYBERSPACE SUSTAINMENT.....	179,568	169,568	-10,000
70 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	8,457,653	8,552,253	+94,600
80 FLYING HOUR PROGRAM.....	5,646,730	5,646,730	---
90 BASE SUPPORT.....	9,846,037	9,771,037	-75,000
COMBAT RELATED OPERATIONS			
100 GLOBAL C3I AND EARLY WARNING.....	979,705	979,705	---
110 OTHER COMBAT OPS SPT PROGRAMS.....	1,418,515	1,399,515	-19,000
120 CYBERSPACE ACTIVITIES.....	864,761	844,761	-20,000
SPACE OPERATIONS			
150 SPACE CONTROL SYSTEMS.....	13,223	13,223	---
COCOM			
160 US NORTHCOM/NORAD.....	196,774	197,339	+565
170 US STRATCOM.....	475,015	475,265	+250
180 US CYBERCOM.....	369,663	399,913	+30,250
190 US CENTCOM.....	372,354	362,539	-9,815
200 US SOCOM.....	28,733	29,623	+890
210 US TRANSCOM.....	---	250	+250
220 CENTCOM CYBERSPACE SUSTAINMENT.....	1,289	1,289	---
230 USSPACECOM.....	272,601	273,109	+508
OPERATING FORCES			
CLASSIFIED PROGRAMS.....	1,454,383	1,454,383	---
TOTAL, BUDGET ACTIVITY 1.....			
	42,770,508	42,560,006	-210,502

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
BUDGET ACTIVITY 2: MOBILIZATION			
240 MOBILITY OPERATIONS			
AIRLIFT OPERATIONS.....	2,422,784	2,397,784	-25,000
250 MOBILIZATION PREPAREDNESS.....	667,851	667,851	---
TOTAL, BUDGET ACTIVITY 2.....	3,090,635	3,065,635	-25,000
BUDGET ACTIVITY 3: TRAINING AND RECRUITING			
260 ACCESSION TRAINING			
OFFICER ACQUISITION.....	158,193	158,193	---
270 RECRUIT TRAINING.....	26,072	26,072	---
280 RESERVE OFFICER TRAINING CORPS (ROTC).....	127,693	127,693	---
BASIC SKILLS AND ADVANCED TRAINING			
SPECIALIZED SKILL TRAINING.....	491,286	491,286	---
300 FLIGHT TRAINING.....	718,742	718,742	---
310 PROFESSIONAL DEVELOPMENT EDUCATION.....	302,092	302,092	---
320 TRAINING SUPPORT.....	162,165	154,165	-8,000
RECRUITING, AND OTHER TRAINING AND EDUCATION			
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.....	308,602	308,602	---
370 JUNIOR ROTC.....	65,940	70,940	+5,000
TOTAL, BUDGET ACTIVITY 3.....	2,773,062	2,770,062	-3,000
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
LOGISTICS OPERATIONS			
380 LOGISTICS OPERATIONS.....	1,062,709	1,062,709	---
390 TECHNICAL SUPPORT ACTIVITIES.....	169,957	169,957	---
ADMIN SERVICEWIDE ACTIVITIES			
400 ADMINISTRATION.....	1,005,827	1,005,827	---
410 SERVICEWIDE COMMUNICATIONS.....	31,054	31,054	---
420 OTHER SERVICEWIDE ACTIVITIES.....	1,470,757	1,470,757	---
430 CIVIL AIR PATROL.....	29,128	47,300	+18,172

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
450 INTERNATIONAL SUPPORT.....	81,118	81,118	---
CLASSIFIED PROGRAMS.....	1,391,720	1,391,428	-292
TOTAL, BUDGET ACTIVITY 4.....	5,242,270	5,280,150	+17,880
HISTORICAL UNOBLIGATION.....	---	-150,000	-150,000
UNJUSTIFIED GROWTH.....	---	-50,000	-50,000
P.L. 115-68 IMPLEMENTATION.....	---	750	+750
RESTORE READINESS.....	---	300,000	+300,000
=====			
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE.....	53,876,475	53,756,603	-119,872
=====			

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

O-1	Budget Request	Committee Recommended	Change from Request
<b>11A PRIMARY COMBAT FORCES</b>	<b>766,860</b>	<b>678,860</b>	<b>-28,000</b>
Unjustified growth		-28,000	
<b>11C COMBAT ENHANCEMENT FORCES</b>	<b>2,382,448</b>	<b>2,292,448</b>	<b>-90,000</b>
Unjustified growth		-90,000	
<b>11D AIR OPERATIONS TRAINING</b>	<b>1,555,320</b>	<b>1,525,320</b>	<b>-30,000</b>
Unjustified growth		-30,000	
<b>11M DEPOT PURCHASE EQUIPMENT MAINTENANCE</b>	<b>3,661,762</b>	<b>3,625,762</b>	<b>-36,000</b>
Unjustified growth		-36,000	
<b>11V CYBERSPACE SUSTAINMENT</b>	<b>179,568</b>	<b>169,568</b>	<b>-10,000</b>
Unjustified growth		-10,000	
<b>11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT</b>	<b>8,457,653</b>	<b>8,552,253</b>	<b>94,600</b>
Unjustified growth		-99,000	
Program increase - F-35 sustainment		184,600	
<b>11Z BASE SUPPORT</b>	<b>9,848,037</b>	<b>9,771,037</b>	<b>-75,000</b>
Unjustified growth		-75,000	
<b>12C OTHER COMBAT OPERATIONS SUPPORT PROGRAMS</b>	<b>1,416,515</b>	<b>1,399,515</b>	<b>-19,000</b>
Unjustified growth		-19,000	
<b>12D CYBERSPACE ACTIVITIES</b>	<b>864,761</b>	<b>844,761</b>	<b>-20,000</b>
Unjustified growth		-20,000	
<b>15C US NORTHCOM/NORAD</b>	<b>196,774</b>	<b>197,339</b>	<b>565</b>
Program increase - implementation of P.L. 115-68		565	
<b>15D US STRATCOM</b>	<b>475,015</b>	<b>475,265</b>	<b>250</b>
Program increase - implementation of P.L. 115-68		250	
<b>15E US CYBERCOM</b>	<b>389,663</b>	<b>389,913</b>	<b>10,250</b>
Program increase - implementation of P.L. 115-68		250	
Program increase - threat hunting platform		10,000	
<b>15F US CENTCOM</b>	<b>372,354</b>	<b>362,539</b>	<b>-9,815</b>
Program increase - implementation of P.L. 115-68		185	
Unjustified growth - OSC-I		-10,000	
<b>15G US SOCOM</b>	<b>28,733</b>	<b>29,623</b>	<b>890</b>
Program increase - implementation of P.L. 115-68		890	
<b>15H US TRANSCOM</b>	<b>0</b>	<b>250</b>	<b>250</b>
Program increase - implementation of P.L. 115-68		250	



O-1	Budget Request	Committee Recommended	Change from Request
15X USSPACECOM	272,601	273,109	508
Program Increase - Implementation of P.L. 115-68		508	
21A AIRLIFT OPERATIONS	2,422,784	2,397,784	-25,000
Unjustified growth		-25,000	
32D TRAINING SUPPORT	162,165	154,165	-8,000
Unjustified growth		-8,000	
33E JUNIOR ROTC	65,940	70,940	5,000
Program Increase - STEM programs		5,000	
42i CIVIL AIR PATROL CORPORATION	29,128	47,300	18,172
Program increase		18,172	
43A SECURITY PROGRAMS	1,391,720	1,391,428	-292
Classified adjustment		-292	
RESTORE READINESS		300,000	300,000
HISTORICAL UNOBLIGATED BALANCES		-150,000	-150,000
TRAVEL - UNJUSTIFIED GROWTH		-50,000	-50,000
P.L. 115-68 IMPLEMENTATION		750	750

## AIR FORCE PILOT SHORTFALL

The Committee remains concerned by the inability of the Air Force to maintain the requisite number of pilots each year. The Committee supports new initiatives that the Air Force is implementing this year, such as Pilot Training Next, and other efforts to increase training throughput and anticipates seeing positive results of the programs. However, the Committee notes that a report required by House Report 116-453, and the analysis associated with it, has not yet been provided to the Committee. Therefore, the Committee directs the Commander of Air Education and Training Command and the Deputy Chief of Staff of Operations at Air Force Headquarters to brief the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act on the status of the report and which initiatives are being considered in fiscal year 2022 to address the Air Force's chronic pilot shortfall. The Committee also 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.

## PILOT TRAINING SAFETY

The Committee is concerned that recent events have highlighted negligence, equipment issues, and unnecessary risk at Air Force pilot training centers during F-16 training and qualification. The Committee believes that the Air Force needs to prioritize pilot safety and ensure that it follows its own directives. The Air Force must follow emergency procedures regarding landing or ejecting, utilize emergency checklists, and ensure that equipment has received the necessary upgrades to protect pilots in the event of an ejection. Additionally, the Air Force should ensure that the flying operation supervision structure is staffed with individuals possessing the correct level of experience to successfully address emergency situations. To ensure these guidelines are followed, the Committee directs the Secretary of the Air Force to provide a report to the congressional defense committees not later than 90 days after the enactment of this Act which details the methods used to ensure pilot safety. The report shall include the efforts the Air Force is taking to implement the use of reality systems during pilot training to reduce overall training risk and applications during combat training scenarios, non-combat training scenarios, and emergency procedure training scenarios.

## AIRCRAFT PROTECTION

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

## OPERATION AND MAINTENANCE, SPACE FORCE

Fiscal year 2022 budget request .....	\$3,440,712,000
Committee recommendation .....	3,372,212,000
Change from budget request .....	- 68,500,000

The Committee recommends an appropriation of \$3,372,212,000 for Operation and Maintenance, Space Force which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, SPACE FORCE			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 AIR OPERATIONS			
GLOBAL C3I & EARLY WARNING.....	495,615	485,615	-10,000
20 SPACE LAUNCH OPERATIONS.....	185,700	185,700	---
30 SPACE OPERATIONS.....	611,269	603,769	-7,500
40 EDUCATION & TRAINING.....	22,887	22,887	---
60 DEPOT MAINTENANCE.....	280,165	280,165	---
70 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION...	213,347	213,347	---
80 CONTRACTOR LOGISTICS & SYSTEM SUPPORT.....	1,158,707	1,158,707	---
90 SPACE OPERATIONS -BOS.....	143,520	143,520	---
100 ADMINISTRATION.....	156,747	105,747	-51,000
CLASSIFIED PROGRAMS.....	172,755	172,755	---
TOTAL, BUDGET ACTIVITY 1.....	3,440,712	3,372,212	-68,500
=====			
TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE.....	3,440,712	3,372,212	-68,500
=====			

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

O-1		Budget Request	Committee Recommended	Change from Request
12A	GLOBAL C3I & EARLY WARNING	495,615	485,615	-10,000
	SWAC - insufficient justification		-5,000	
	Unjustified growth		-5,000	
13C	SPACE OPERATIONS	611,269	603,769	-7,500
	Unjustified increase		-7,500	
42A	ADMINISTRATION	156,747	105,747	-51,000
	Unjustified growth		-51,000	

# OPERATION AND MAINTENANCE, DEFENSE-WIDE

Fiscal year 2022 budget request .....	\$44,918,366,000
Committee recommendation .....	45,306,975,000
Change from budget request .....	+388,609,000

The Committee recommends an appropriation of \$45,306,975,000 for Operation and Maintenance, Defense-Wide which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

		BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, DEFENSE-WIDE				
BUDGET ACTIVITY 1: OPERATING FORCES				
10	JOINT CHIEFS OF STAFF.....	407,240	402,240	-5,000
20	JOINT CHIEFS OF STAFF - CE2T2.....	554,634	554,634	---
30	JOINT CHIEFS OF STAFF - CYBER.....	8,098	8,098	---
40	SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES.....	2,044,479	2,035,719	-8,760
50	SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES.....	45,851	45,851	---
60	SPECIAL OPERATIONS COMMAND INTELLIGENCE.....	1,614,757	1,615,908	+1,151
70	SPECIAL OPERATIONS COMMAND MAINTENANCE.....	1,081,869	1,079,869	-2,000
80	SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS.....	180,042	180,042	---
90	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT.....	1,202,060	1,197,262	-4,798
100	SPECIAL OPERATIONS COMMAND THEATER FORCES.....	3,175,789	3,175,789	---
	TOTAL, BUDGET ACTIVITY 1.....	10,314,819	10,295,412	-19,407
BUDGET ACTIVITY 3: TRAINING AND RECRUITING				
130	DEFENSE ACQUISITION UNIVERSITY.....	171,607	171,607	---
140	JOINT CHIEFS OF STAFF.....	92,905	92,905	---
150	PROFESSIONAL DEVELOPMENT EDUCATION.....	31,669	31,669	---
	TOTAL, BUDGET ACTIVITY 3.....	296,181	296,181	---
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES				
170	CIVIL MILITARY PROGRAMS.....	137,311	264,592	+127,281
190	DEFENSE CONTRACT AUDIT AGENCY.....	618,526	606,526	-12,000
200	DEFENSE CONTRACT AUDIT AGENCY - CYBER.....	3,984	3,984	---
220	DEFENSE CONTRACT MANAGEMENT AGENCY.....	1,436,296	1,435,796	-2,500
230	DEFENSE CONTRACT MANAGEMENT AGENCY - CYBER.....	11,999	11,999	---
240	DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY.....	941,488	930,381	-11,107
260	DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY - CYBER.....	9,859	9,859	---
270	DEFENSE HUMAN RESOURCES ACTIVITY.....	816,168	894,668	+78,500
280	DEFENSE HUMAN RESOURCES ACTIVITY - CYBER.....	17,655	17,655	---
290	DEFENSE INFORMATION SYSTEMS AGENCY.....	1,913,734	1,914,169	+435
310	DEFENSE INFORMATION SYSTEMS AGENCY - CYBER.....	530,278	550,278	+20,000

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
350 DEFENSE LEGAL SERVICES AGENCY.....	229,498	215,498	-14,000
360 DEFENSE LOGISTICS AGENCY.....	402,884	426,264	+23,400
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	2,113,146	+45,700
420 DEFENSE TECHNOLOGY SECURITY AGENCY.....	39,305	39,305	---
440 DEFENSE THREAT REDUCTION AGENCY.....	685,749	685,749	---
460 DEFENSE THREAT REDUCTION AGENCY - CYBER.....	36,736	36,736	---
470 DEPARTMENT OF DEFENSE EDUCATION ACTIVITY.....	3,136,345	3,228,345	+90,000
490 MISSILE DEFENSE AGENCY.....	502,450	499,004	-3,446
OFFICE OF THE LOCAL DEFENSE COMMUNITY COOPERATION - OSD.....	89,686	217,686	+128,000
540 OFFICE OF THE SECRETARY OF DEFENSE.....	1,766,614	1,752,478	-14,136
550 OFFICE OF THE SECRETARY OF DEFENSE - CYBER.....	32,851	49,575	+16,724
560 SPACE DEVELOPMENT AGENCY.....	53,851	53,851	---
570 WASHINGTON HEADQUARTERS SERVICES.....	369,698	389,698	---
CLASSIFIED PROGRAMS.....	17,900,146	17,833,213	-66,933
TOTAL, BUDGET ACTIVITY 4.....	34,307,366	34,713,282	+405,916
P.L. 115-68 IMPLEMENTATION.....	---	2,100	+2,100
TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE.....	44,816,366	45,306,975	+388,609



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

O-1	Budget Request	Committee Recommended	Change from Request
<b>1PL1 JOINT CHIEFS OF STAFF</b>	<b>407,240</b>	<b>402,240</b>	<b>-5,000</b>
Historical unobligated balances		-5,000	
<b>1PL6 SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES</b>	<b>2,044,479</b>	<b>2,035,719</b>	<b>-8,760</b>
Classified adjustment		-12,070	
Program increase - AGMS acceleration		3,310	
<b>1PLU SPECIAL OPERATIONS COMMAND INTELLIGENCE</b>	<b>1,614,757</b>	<b>1,615,908</b>	<b>1,151</b>
Sensitive site exploitation program decrease		-2,457	
SOF Organic ISR program decrease		-6,392	
Program increase - DOMEX		10,000	
<b>1PL7 SPECIAL OPERATIONS COMMAND MAINTENANCE</b>	<b>1,081,869</b>	<b>1,079,869</b>	<b>-2,000</b>
Combatant craft medium program decrease		-2,000	
<b>SPECIAL OPERATIONS COMMAND OPERATIONAL</b>	<b>1,202,060</b>	<b>1,197,262</b>	<b>-4,798</b>
<b>1PLV SUPPORT</b>			
Long haul communications program decrease		-4,798	
<b>1PLR SPECIAL OPERATIONS COMMAND THEATER FORCES</b>	<b>3,175,789</b>	<b>3,175,789</b>	<b>0</b>
Transfer from Section 1202		-5,000	
Transfer to USSOCOM Information Operations		5,000	
<b>4GT3 CIVIL MILITARY PROGRAMS</b>	<b>137,311</b>	<b>264,592</b>	<b>127,281</b>
Program increase - National Guard Youth Challenge		85,281	
Program increase - Starbase		42,000	
<b>4GT6 DEFENSE CONTRACT AUDIT AGENCY</b>	<b>618,528</b>	<b>606,526</b>	<b>-12,000</b>
Historical unobligated balances		-12,000	
<b>4GT0 DEFENSE CONTRACT MANAGEMENT AGENCY</b>	<b>1,438,296</b>	<b>1,435,796</b>	<b>-2,500</b>
Historical unobligated balances		-2,500	
<b>DEFENSE COUNTERINTELLIGENCE AND SECURITY</b>			
<b>4GTE AGENCY</b>	<b>941,488</b>	<b>930,381</b>	<b>-11,107</b>
Unjustified growth		-11,107	
<b>4GT8 DEFENSE HUMAN RESOURCES ACTIVITY</b>	<b>816,168</b>	<b>894,668</b>	<b>78,500</b>
Program increase - DLNSEO		16,000	
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 Office		7,500	
<b>4GT9 DEFENSE INFORMATION SYSTEMS AGENCY</b>	<b>1,913,734</b>	<b>1,914,169</b>	<b>435</b>
Historical unobligated balances		-20,600	
Program increase - cloud migration and technology		21,035	

O-1	Budget Request	Committee Recommended	Change from Request
<b>4GU9 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER</b>	<b>530,278</b>	<b>550,278</b>	<b>20,000</b>
Program increase - securing the Department of Defense Information Network		20,000	
<b>4GTA DEFENSE LEGAL SERVICES AGENCY</b>	<b>229,498</b>	<b>216,498</b>	<b>-14,000</b>
Historical unobligated balances		-14,000	
<b>4GTB DEFENSE LOGISTICS AGENCY</b>	<b>402,864</b>	<b>426,264</b>	<b>23,400</b>
Program increase - Procurement Technical Assistance Program		24,400	
Historical unobligated balances		-1,000	
<b>4GTD DEFENSE SECURITY COOPERATION AGENCY</b>	<b>2,067,446</b>	<b>2,113,146</b>	<b>45,700</b>
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		45,140	
Program increase - International Security Cooperation Programs women's programs		3,000	
Program increase - International Security Cooperation Programs human rights training		1,000	
Unjustified growth - International Security Cooperation Programs transportation and service		-15,000	
International Security Cooperation Programs Institutional Capacity Building insufficient justification		-10,709	
International Security Cooperation Programs - CENTCOM program decrease		-785	
Transfer from International Security Cooperation Programs to Ukraine Security Assistance Initiative		-7,672	
Transfer to Ukraine Security Assistance Initiative from International Security Cooperation Programs		7,672	
Program increase - Ukraine Security Assistance Initiative		17,328	
Program increase - Regional Centers		4,000	
Program increase - Arctic Regional Center		6,000	
Defense Institute of International Legal Studies insufficient justification		-1,544	
Lift and Sustain program adjustment		-75,000	
Transfer from Regional Defense Fellowship Program to Combating Terrorism and Irregular Warfare Fellowship Program		-26,549	
Transfer to Combating Terrorism and Irregular Warfare Fellowship Program from Regional Defense Fellowship Program		26,549	
<b>4GTJ DEPARTMENT OF DEFENSE EDUCATION ACTIVITY</b>	<b>3,138,345</b>	<b>3,228,345</b>	<b>90,000</b>
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	

O-1	Budget Request	Committee Recommended	Change from Request
<b>OFFICE OF LOCAL DEFENSE COMMUNITY</b>	<b>89,686</b>	<b>217,686</b>	<b>128,000</b>
<b>4GTM COOPERATION</b>			
Program Increase - Defense Community Infrastructure Program		25,000	
Program Increase - Noise Mitigation Community Partnership		75,000	
Program Increase - Defense Manufacturing Communities		25,000	
Program Increase - personnel increase		3,000	
<b>4GTN OFFICE OF THE SECRETARY OF DEFENSE</b>	<b>1,766,614</b>	<b>1,752,476</b>	<b>-14,138</b>
Unjustified growth		-33,000	
SO/LIC SSO program decrease		-3,684	
Transfer from SOLIC SSO to SOCT/O		1,250	
Historical unobligated balances		-5,000	
Office of Secretary of Defense requested transfer to line 4GTC		-16,724	
Program Increase - Readiness Environmental Protection Integration		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	
<b>4GTC OFFICE OF THE SECRETARY OF DEFENSE- CYBER</b>	<b>32,651</b>	<b>49,575</b>	<b>16,724</b>
Office of Secretary of Defense requested transfer from 4GTN		16,724	
<b>011A MISSILE DEFENSE AGENCY</b>	<b>502,450</b>	<b>499,004</b>	<b>-3,446</b>
Unjustified growth		-3,446	
<b>999 OTHER PROGRAMS</b>	<b>17,900,145</b>	<b>17,933,213</b>	<b>-66,933</b>
Classified adjustment		-66,933	
<b>P.L. 115-68 IMPLEMENTATION</b>		<b>2,100</b>	<b>2,100</b>

## HELICOPTER AND TILTROTOR NOISE MITIGATION STUDY

The Department of Defense Appropriations Act, 2021, directed the Office of Local Defense Community Cooperation to begin efforts on the Noise Mitigation Communities Partnership program which will fund mitigation efforts for communities affected by jet noise. While helicopter and tiltrotor aircraft do not generate the same noise level as jets, their accumulated noise over longer periods of time, as well as their lower flight profiles, can have similar effects on local communities. In order to assess which local communities are impacted by military helicopter and tiltrotor noise, the Committee directs the Director of the Office of Local Defense Community Cooperation to conduct a study and submit a report to the congressional defense committees not later than 360 days after the enactment of this Act with a list of military installations and training routes that are in close proximity to local communities that are used by military helicopters and tiltrotors; the accumulated day-night average sound level over a 24 hour period for these locations; noise contour maps of the defined locations exceeding a 65 decibel threshold; and the challenges of incorporating any communities affected by helicopter or tiltrotor noise into the existing Noise Mitigation Community Partnership.

## FOSSIL FUELS

The Committee is concerned with the ongoing effects of climate change, including extreme weather events, recurring flooding, and sea level rise, on the Department of Defense and its operations. The Committee is also concerned that the Department is contributing to this crisis as a large consumer of fossil fuels and producer of greenhouse gases. While the Department must conduct the missions required to carry out the National Defense Strategy, the Committee believes the Department can both lower its carbon footprint and defend the nation. The Committee directs the Secretary of Defense to submit a report, with a classified annex if necessary, to the congressional defense committees not later than 180 days after the enactment of this Act on the use of fossil fuels across all defense activities in fiscal year 2021. The report shall be categorized by Service and major activity, shall include a summary of efforts by the Department to prioritize missions which lower the use of fossil fuels, and shall include technological investments made by the Department to increase energy efficiency.

## CIVILIAN CYBER WORKFORCE

The Committee recognizes the challenge that the Department of Defense faces in hiring individuals with the necessary security clearances for the cyber workforce and encourages the Secretary of Defense to find innovative solutions to increase the civilian cyber workforce. The Committee believes that the Department of Defense should collaborate with colleges and universities to recruit cyber-focused students during their junior or senior years, with the intent that upon graduation the student will have a completed security clearance. The Committee notes the Secretary of Defense is currently required to submit a report to the congressional defense committees on efforts to increase the throughput of security clear-

ances and further directs the Secretary of Defense to provide an update to the congressional defense committees not later than 60 days after the enactment of this Act with any changes to the anticipated date of completion for the report.

#### CYBER EDUCATION COLLABORATIVES

The Committee remains concerned by widespread shortages in cybersecurity talent across both the public and private sector. In accordance with the recommendations of the Cyberspace Solarium Commission, the Committee encourages the Under Secretary of Defense for Research and Engineering to direct cyber-oriented units to collaborate with local colleges and universities on research, fellowships, internships, and cooperative work experiences to expand cyber-oriented education opportunities and grow the cybersecurity workforce. The Committee also appreciates that veterans and transitioning servicemembers could serve as a valuable recruiting pool to fill gaps in the cybersecurity workforce. Accordingly, the Committee encourages the Under Secretary of Defense for Research and Engineering to prioritize collaboration with colleges and universities near military installations as well as the veteran population.

#### FOREIGN LANGUAGE AND CULTURAL COMPETENCY EDUCATION AND WORKFORCE PIPELINE STRATEGY

The Committee is concerned that federal foreign language and cultural competency programs do not adequately invest in civilian early childhood, K-12, and higher education programs. The Committee directs the Secretary of Defense, in coordination with the Director of National Intelligence and the Service Secretaries, to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act that delineates the programs and funding levels relating to foreign language and cultural competency programs in the Department of Defense and the Intelligence Community. The report shall clearly identify any programs and funding that promote advancement particularly for females, minorities, individuals with disabilities, military students, or veterans. For each program, the report shall include each recipient's award amount, use, and effectiveness of the program to recruit students into foreign language or cultural competency programs or careers in the Department of Defense or defense industry.

Further, the Committee directs the Secretary of Defense to establish a Defense Foreign Language and Cultural Competency Education and Workforce Strategy. The Committee directs the Secretary of Defense to submit an update to the congressional defense committees not later than 45 days after the receipt of the report cited above on initial concepts, and provide the completed strategy to the congressional defense committees not later than 270 days after the enactment of the Act. The Secretary of Defense should coordinate with the Director of National Intelligence and the Secretaries of Education and State on this strategy. The strategy should include an analysis of current civilian and military hard-to-fill positions for foreign language and cultural competencies and what is estimated for the next five to ten years. The strategy should also provide recommendations on creating and/or modifying all levels of

current foreign language and cultural programs and funding to develop a comprehensive group of programs to address possible future defense workforce gaps in this arena. Within the recommendations, particular emphasis should be placed on programs that encourage women, minorities, individuals with disabilities, and veterans to pursue foreign language and cultural competency careers.

#### PROGRAMS FOR MILITARY SPOUSES

The Committee believes the Department's "Survey of Active Duty Spouses" lacks necessary local data to determine whether military spouse unemployment and underemployment is consistent across domestic military installations. The Committee directs the Director of Military Community Support Programs to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act which details military spouse unemployment and underemployment levels from a random sampling of domestic military installations. The report should include military spouses' employment statistics by Service and rank, and should describe possible barriers for spouses to achieve employment commensurate with their education and work experience. The report should provide recommendations to facilitate local or remote military spouse employment, including hiring opportunities for military spouses in the Department of Defense or the Services.

Multiple surveys have documented the underemployment of military spouses. Given this need, the Committee recommendation includes \$5,000,000 for a pilot program, to be executed by the Director of Military Community Support Programs, for military spouse apprenticeships and fellowships. Eligibility would be the same as the requirements included in the My Career Advancement Account (MyCAA) scholarship program. The Committee directs the Director of Military Community Support Programs to provide a report to the congressional defense committees not later than 270 days after the enactment of this Act which describes the results of the pilot program, to include spouses securing full-time employment with the host organization or another organization in the same sector, and any other beneficial effects of the pilot program.

Further, the Committee recognizes that military spouses utilize MyCAA to pursue a variety of licenses or degrees. The Committee is concerned that current academic and career advising programs do not provide structured guidance that aligns civilian workforce requirements with MyCAA education institutions, programs, and courses. The Committee directs the Director of the Military Community Support Programs 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 MyCAA academic and career advising programs with structured guidance for recommended education institutions, programs, and courses. The report should include metrics that align academic and career counseling and structured guidance with military spouses' career goals.

#### IMPACT AID

The Committee supports the Impact Aid and Impact Aid for Children with Disability programs. However, the Committee is concerned by possible discrepancies in how local education agencies el-

igible for both programs receive funding. The Committee directs the Director of the Department of Defense Education Activity to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act that addresses any inconsistencies and recommendations to close any funding gaps.

#### READINESS AND ENVIRONMENTAL PROTECTION INTEGRATION PROGRAM

The Committee recommendation includes \$155,000,000 for the Readiness and Environmental Protection Integration (REPI) program and notes the importance of REPI and Sentinel Landscape Partnerships to the successful land and wildlife conservation activities on land buffering military installations, as well as activities to address the threats of stormwater, riverine, and storm surge flooding. Additionally, the Committee directs the Secretary of Defense to use \$5,000,000 in funds provided for REPI to partner with the United States Forest Service in establishing habitats for the monarch butterfly on land managed through the REPI program.

#### GUANTANAMO BAY DETENTION FACILITY

The Committee directs the Secretary of Defense to submit a report to the House and Senate Appropriations Committees not later than 60 days after the enactment of this Act, 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; the status of funds for the current fiscal year; and a description of steps taken to close the facility.

#### MILITARY BASES OF THE PEOPLE'S REPUBLIC OF CHINA

According to the 2020 China Military Power Report, the People's Republic of China is seeking to establish more overseas logistics and basing infrastructure. The Committee is concerned that the expected locations of these additional Chinese bases are in countries where the United States has strong bilateral defense relationships. These potential basing locations could also threaten logistics and supply lines in the event of conflict. The Committee directs the Secretary of Defense and the Director of National Intelligence to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act on China's efforts to establish military bases abroad and United States efforts to work with partner nations to prevent their establishment. The report shall describe the potential risks to United States national security, including in relation to the stationing of United States troops and the freedom of movement of United States and allied forces. The report shall also include a description of any provisioning of United States military equipment and detail the bilateral intelligence sharing relationships that exist between the United States and countries suspected to host Chinese bases.

## REPORT ON HOSTILITIES

The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act on ongoing activities considered hostilities under the War Powers Resolution (50 U.S.C. 1541 et seq.).

## WESTERN HEMISPHERE

The Committee encourages a thorough assessment of activities and resources in the preparation of the report required by section 1265 of the National Defense Authorization Act for Fiscal Year 2020 and looks forward to reviewing the final Department of Defense report and recommendations.

ASSISTANT SECRETARY OF DEFENSE FOR SPECIAL OPERATIONS AND  
LOW INTENSITY CONFLICT

The fiscal year 2022 budget request includes an additional \$9,420,000 and 19 full-time equivalents (FTE) for the Office of the Assistant Secretary of Defense for Special Operations and Low Intensity Conflict. The Committee recommendation includes a reduction of \$3,664,000 and five FTEs for the Secretariat for Special Operations and transfers five FTEs to the Information Operations Directorate within the Office of the Deputy Assistant Secretary of Defense of Special Operations and Combatting Terrorism.

## INFORMATION OPERATIONS

The Committee recognizes the unique capabilities of United States Special Operations Command (USSOCOM) to conduct operations in the information environment and supports the Department's efforts to enable special operations forces to counter Chinese and Russian malign influence. The establishment of the Information Warfare Center, the maturation of the Joint Military Information Support Operations WebOps Center and the regular deployments of Military Information Support Teams from psychological operations regiments, uniquely position special operations forces for great power competition. While the Committee recommendation includes the four requested full-time equivalents (FTE) for the Principal Information Operations Advisor and five additional FTEs for the Information Operations Directorate within the Office of the Assistant Secretary of Defense for Special Operations and Low Intensity Conflict, the Committee believes special operations forces can be more impactful in the information environment in support of United States policy objectives. Additional resources to support new and novel operations are necessary. Therefore, the recommendation includes an additional \$5,000,000 above the budget request for USSOCOM Information Operations. The Committee directs the Commander of USSOCOM to submit a detailed spend plan to the House and Senate Appropriations Committees not fewer than 30 days prior to the obligation of the funds.

## THEATER SPECIAL OPERATIONS COMMAND ACTIVITIES

The Committee directs the Assistant Secretary of Defense for Special Operations/Low Intensity Conflict, in coordination with the



Commander of United States Special Operations Command, the Service Secretaries, and the Chairman of the Joint Chiefs of Staff, to provide a report on the activities of Theater Special Operations Commands (TSOCs). The report shall be provided with the fiscal year 2023 budget request submission and include a detailed accounting of activities performed by the TSOCs in the preceding year, current fiscal year, and current budget request submission at the budget line item level of detail. The report shall include a detailed accounting of resources allocated by the military Services, United States Special Operations Command, and the combatant commands.

#### CLIMATE CHANGE REPORT AND ADAPTATION ROADMAP

The Committee notes the Secretary of Defense is required to submit a report which contains a list of the top ten most climate-vulnerable bases within each Service and provides a cost estimate to mitigate the risks at each of these bases to the congressional defense committees as directed in House Report 116-84. The Committee understands that the Department, in coordination with the Army Corps of Engineers, has completed the development of a tool to meet this requirement and better assess exposure to extreme weather and climate impacts. The Committee understands the Department is near completion of an updated report and expects the Secretary of Defense to brief the congressional defense committees on the updated report upon release. Further, the Committee directs the Secretary of Defense to make the report available on the Department's website not later than 30 days after the enactment of this Act.

#### GREENHOUSE GAS EMISSIONS REPORT

The Committee encourages the Secretary of Defense, in cooperation with the Secretary of Transportation and the Secretary of Energy, to evaluate the risks and national security implications of United States greenhouse gas emissions on military bases. The Committee recognizes the urgent necessity of reducing greenhouse gas emissions to mitigate the impacts of global climate change. The Committee expects the Department of Defense to integrate considerations of climate impacts into all aspects of military planning and funding. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees outlining the Department's plans to reduce greenhouse gas emissions on military bases not later than 180 days after the enactment of this Act. The report shall be categorized by Service and include a summary of efforts to reduce greenhouse gas emissions by installation.

#### ENERGY RESILIENCE AND CONSERVATION

The Committee encourages the Secretary of Defense to capitalize on current growth in the fields of energy efficiency, management, and resiliency, and explore opportunities to make significant progress towards reducing energy costs, increasing the use of renewable energy sources, and reducing carbon emissions. The Department currently segregates energy into two categories: installation energy, which is 30 percent of the Department's portfolio, and

operational energy, which is 70 percent of the Department's portfolio. Only installation energy, encompassing energy for fixed installations and non-tactical vehicles, is subject to federal energy management requirements. The Committee directs the Secretary of Defense to study the implications of applying federal energy management requirements to both its installation energy operations as well as its operational energy operations and to provide a report to the congressional defense committees not later than 120 days after the enactment of this Act on the Department's findings. The report should include a study of the implication of requiring the Department to establish energy security and resilience metrics to evaluate the Services' and the combatant commands' energy consumption, carbon footprints, and progress towards energy conservation.

#### SUPPORT FOR TRIBAL CONSULTATION AND NATION TO NATION RELATIONSHIPS

In January 2021, the Administration issued a Presidential Memorandum on Tribal Consultation and Strengthening Nation-to-Nation Relationships. The Memorandum requires all executive departments and agencies to create a plan of action to implement Executive Order 13175, which requires federal agencies to engage in regular, meaningful, and robust consultation with tribes when developing policies with tribal implications. The Committee expects the Department of Defense to begin tribal consultations as soon as possible for any project that is likely to impact tribal lands, cultural properties, or treaty rights. The Committee directs the Secretary of Defense to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act which outlines the Department's progress in implementing its plan of action to adhere to Executive Order 13175.

#### AUDIT OVERSIGHT

In 2018, the Department of Defense conducted its first department-wide audit, which revealed significant technological, security, and organizational deficiencies in the Department's financial management systems. These deficiencies prevent the Department from collecting and reporting financial and performance information that is accurate, reliable, and timely. The current estimate for the Department to receive a clean audit opinion is 2027.

The Committee directs the Under Secretary of Defense (Comptroller) to include with the annual Department of Defense Agency Financial Report an accompanying report that provides a summary for each component that has not received an unqualified opinion, the progress being made, the root cause of identified deficiencies, and the significant outstanding challenges that remain. The report shall also include, in consultation with the Chief Information Officer, which information technology systems are impeding the ability of the Department to achieve an unqualified audit opinion. The report shall include a detailed description of the Department's strategy to improve or replace its information technology systems and implement business process reengineering initiatives aimed at producing an accurate, timely, and reliable audit across all the Services. Further, the report shall include a plan detailing how the Department will improve tracking of Department assets. The report

shall be made available publicly, with a classified annex to the congressional defense committees as necessary, at the time of publication of the annual Department of Defense Agency Financial Report. Finally, the Committee directs the Comptroller General to review the Department's audit efforts and make recommendations for steps the Department should take to achieve a clean audit opinion before 2027 and provide a report to the congressional defense committees on its findings not later than 270 days after the enactment of this Act.

#### VOTING

The Committee supports the timely distribution of ballots to all military personnel, including by electronic means, to ensure they have the opportunity to vote. The Committee encourages the Secretary of Defense to execute the provisions of the Military and Overseas Voter Empowerment Act as efficiently and effectively as possible to ensure servicemembers receive timely voting ballots.

#### NATIONAL GUARD YOUTH CHALLENGE

The Committee is disturbed by reports of inconsistent approaches taken by individual states in the execution of the National Guard Youth Challenge program. The Committee notes the last review of the program by the Government Accountability Office was in 2005. Therefore, the Committee directs the Comptroller General to provide a report to the congressional defense committees not later than 180 days after the enactment of this Act that reviews historical trends of the program; the consistency of mission execution by each of the states; details of the guidelines and lesson plans by each of the states; metrics for what is considered a "successful" program and those used to meet that goal; and what, if any, consistent oversight is being accomplished by the National Guard Bureau, the Department of Defense or other department or agency.

#### DEFENSE SECURITY COOPERATION AGENCY PROGRAMS

The Committee recommendation includes \$2,113,146,000 for programs administered by the Defense Security Cooperation Agency. Section 8146 of the Act requires the Secretary of Defense to submit a detailed spend plan for these funds, which 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 also be provided to the House and Senate Appropriations Committees concurrent with the fiscal year 2023 budget submission.

The Committee recommendation includes \$1,138,150,000 for International Security Cooperation Programs, \$87,244,000 above the budget request. This includes \$165,000,000 for programs with countries in the Africa Command area of responsibility, \$59,571,000 above the request; \$90,000,000 for programs with Jordan, \$12,699,000 above the request; and \$150,000,000 for the Bal-

tic Security Initiative, \$45,140,000 above the request. The Committee directs that not less than such amounts be specified in the spend plan. The recommendation also supports International Security Cooperation Programs with countries in the Indo-Pacific Command area of responsibility, including for maritime security programs.

The Committee is concerned by Russia's aggressive actions this year, including increased deployment of troops in the border region with Ukraine and the restriction of navigation in the Black Sea. The Committee continues to support the defense of Ukraine by providing \$275,000,000 for the Ukraine Security Assistance Initiative, \$25,000,000 above the budget request. The Committee expects the Secretary of Defense to obligate funds in a timely manner and continues to include legislative language requiring the Secretary to inform the congressional defense committees if funds have not been obligated 60 days after a notification is submitted. The Committee directs that congressional notifications submitted for International Security Cooperation Programs and the Ukraine Security Assistance Initiative specify the fiscal year, whether funds support ongoing or new programs, and the duration and expected cost over the life of each program.

The Committee encourages the Government of Ukraine to continue to adopt reforms in the defense sector, including in the areas of capability-based planning, defense industry and procurement, human resources management, democratic civilian control of the military, and establishing a process to review foreign direct investments on national security grounds. The Committee also supports measures to reduce corruption in Ukraine's security services and directs the Secretary of Defense to update the report required by House Report 116-84 and to submit it concurrently with the second notification of funds. The Committee recommendation does not continue an authority included in prior fiscal years that provides replacement funds for items provided from the inventory of the United States as a similar authority is available under the Economy Act.

The Committee 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, section 8154 of the Act requires the Secretary of Defense, in cooperation with the Secretary of State, to submit an integrated security cooperation strategy for assistance for certain priority partner countries, including 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 shall consult with the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act.

The Committee recommendation includes \$6,000,000 for the Center for Arctic Security Studies, which is in the process of being established. The Committee believes the work of the Center should complement and not duplicate the work of other institutions that focus on arctic issues such as the Woodrow Wilson's Polar Institute, and expects the Department of Defense to consider such work as it establishes this Center.

The Committee recommendation does not include funding for any unit of the Guatemalan Armed Forces that has engaged in a gross violation of human rights or has misused United States military assistance, especially by threatening United States or international personnel in Guatemala. The Committee directs that any notification for funds for Guatemala include a description of enhanced end-use agreements and other measures in place to avoid any misuse of equipment.

The Committee remains interested in Army security force assistance brigade deployments and directs that any congressional notification made pursuant to 10 U.S.C. 321 or 10 U.S.C. 333 include a description of the number of individuals deployed and their training; the amount, type, and purpose of the training and equipment to be provided to the recipient country's security forces; the timeline and source of funds; and how the proposed program fits into the overall security cooperation goals of the brigade or country.

The Committee is concerned with the recent practice by the Department of Defense of submitting congressional notifications for funds that have not been made available by Congress. On October 8, 2020, the Department submitted a notification for fiscal year 2021 security cooperation programs totaling \$563,930,000, nearly twice the amount available under the continuing resolution. A second notification was submitted on December 9, 2020 for fiscal year 2021 funds totaling \$228,145,000. These notifications also proposed to obligate funds for new programs during the continuing resolution period. The Committee expects the Department to discontinue this practice, which prejudices congressional action on appropriations.

The Committee notes the significant unobligated balances from prior year appropriations and the Committee recommendation includes a rescission of some of these funds. The Committee directs that such funds are not derived from congressional priorities, including programs increased by fiscal year 2021 appropriations, and directs the Secretary of Defense to consult with the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act.

The Committee appreciates the Department's in-depth briefings provided to the Committee on certain country programs, which contribute to congressional oversight, help clarify congressional intent regarding program execution, and increases comity between the executive and legislative branches of government. At the same time, the Committee is concerned about organizational changes made to the Defense Security Cooperation Agency without congressional approval or oversight. In April 2021, the agency informed the Committee that it had undergone a reorganization, executed outside of the budget cycle and without consultation with Congress or key stakeholders. The Committee expects the Director of the Defense

Security Cooperation Agency to consult with the House and Senate Appropriations Committees prior to making any further changes.

### AFGHANISTAN SECURITY FORCES FUND

Fiscal year 2022 budget request .....	\$3,327,810,000
Committee recommendation .....	3,045,341,000
Change from budget request .....	-282,469,000

The Committee recommends an appropriation of \$3,045,341,000 for the Afghanistan Security Forces Fund which will provide the following program in fiscal year 2022:

#### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

(In thousands of dollars)

	Budget Request	Committee Recommendation	Change from Request
AFGHAN NATIONAL ARMY .....	1,110,234	1,108,416	-1,818
Sustainment .....	1,053,668	1,053,668	
Infrastructure .....	1,818	0	
Program decrease .....		-1,818	
Equipment and Transportation .....	22,911	22,911	
Training and Operations .....	31,837	31,837	
AFGHAN NATIONAL POLICE .....	517,331	517,331	0
Sustainment .....	440,628	440,628	
Equipment and Transportation .....	38,551	38,551	
Training and Operations .....	38,152	38,152	
AFGHAN AIR FORCE .....	758,340	807,751	49,411
Sustainment .....	562,056	562,056	
Equipment and Transportation .....	26,600	76,011	
Program increase—light attack support aircraft replacement .....		49,411	
Training and Operations .....	169,684	169,684	
AFGHAN SPECIAL SECURITY FORCES .....	941,905	941,905	0
Sustainment .....	685,176	685,176	
Equipment and Transportation .....	78,962	78,962	
Training and Operations .....	177,767	177,767	
UNDISTRIBUTED REDUCTION .....	0	-330,062	-330,062
<b>TOTAL, AFGHANISTAN SECURITY FORCES FUND .....</b>	<b>3,327,810</b>	<b>3,045,341</b>	<b>-282,469</b>

### AFGHANISTAN SECURITY FORCES FUND

The Committee honors the service and sacrifices made by United States servicemembers over the nearly two decades of war in Afghanistan. The Committee also expresses its gratitude to international allies and partners for their important contributions to Operation Enduring Freedom and Operation Freedom's Sentinel. Finally, the Committee recognizes the sacrifices made by the Afghan Security Forces and Afghan citizens in defense of their country.

The Committee recommendation provides the financial resources necessary for the Afghan Security Forces to sustain combat and counterterrorism operations. The Committee continues to monitor the ongoing conflict and the retrograde of the United States military and will consider the appropriate level of resources as the situation on the ground evolves. The Committee directs the Secretary of Defense to provide quarterly briefings on the status of the conflict to the House and Senate Appropriations Committees.

The United States has a responsibility to Afghans who, often at great risk, have supported the mission in Afghanistan, and the

Committee supports efforts to ensure that they are afforded a path to safety, including through the Afghan Special Immigrant Visa program. However, the Committee is concerned with the backlog of current applications and urges the Secretary of Defense to review and improve the Department of Defense's contribution to this process. Furthermore, and in light of the Department's unique security and logistical capabilities, the Committee recommendation provides \$25,000,000 to the Department of Defense to provide transport and safe passage to Afghans who have provided faithful and valuable service to the United States and who are under serious threat. The Committee expects the Secretary to use this authority and funding in relation to the dynamic security environment.

The Committee recommendation continues to include legislative language that provides that funds appropriated under this heading may only be obligated if the Secretary of Defense, in consultation with the Secretary of State, certifies in writing to the congressional defense committees that such forces are controlled by a civilian, representative government that is committed to protecting human rights and women's rights and preventing terrorists and terrorist groups from using the territory of Afghanistan to threaten the security of the United States and its allies. The Committee directs that the certification include a written justification and be submitted prior to the first notification of funds provided under this heading.

The Committee continues to be concerned with the proper oversight of funds, particularly given the challenges of administering programs from over-the-horizon locations. Accordingly, the Committee recommendation includes new legislative language requiring that funds may only be obligated after the Secretary of Defense certifies in writing to the congressional defense committees that a program is in place to monitor, evaluate, and oversee such funds. The certification shall include a detailed description of the program, including measures to ensure that supplies and equipment are reaching their intended recipients and used for their intended purposes, and any other measures to prevent waste, fraud, and abuse.

The Committee recommendation does not include funding for major capital projects, major upgrades, infrastructure, or the procurement of new systems. The recommendation includes funding for Afghanistan Army personnel in line with historical levels rather than authorized levels. The recommendation does not include funding requested for the Ministry of Defense Advisors Program, which is instead funded under Operation and Maintenance, Defense-Wide, for the Defense Security Cooperation Agency. The Committee supports ongoing efforts to transition Afghanistan Security Forces costs from the United States to the Government of Afghanistan, and the recommendation assumes the transition of an increasing portion of costs related to fuel and facilities sustainment, restoration, and modernization.

The Committee recommendation fully funds the request for the Afghanistan Personnel and Pay System and continues to include legislative language that requires that funding only be used to pay personnel who are enrolled in the system. The recommendation also includes funding for items to reduce Afghanistan Security

Forces casualties, including equipment for explosive ordnance disposal and to counter improvised explosive devices. The recommendation also provides funding for the Afghanistan Air Force to replace three light attack support aircraft.

The Committee recommendation provides not less than \$20,000,000 for the recruitment and retention of women in the Afghanistan National Security Forces, and the recruitment and training of female security personnel. The Committee directs the Secretary of Defense to submit an updated report to the congressional defense committees describing the proposed use of such funds, including programmatic details, personnel targets, and other goals and objectives to be achieved with this funding. The Committee directs that the report be submitted concurrently with the submission of the first notification of funds provided under this heading.

The Administration has stated the intent to continue the counterterrorism mission in Afghanistan by establishing over-the-horizon logistics and counterterrorism platforms. The Department has provided several updates to the Committee, but they lack clarity on the scope and cost of future operations. Therefore, the Committee directs the Secretary of Defense to 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 the current fiscal year and requested for fiscal year 2022, by program, account, and activity.

The Committee notes that the Department of Defense has not complied with reporting requirements included under this heading in the Department of Defense Appropriations Act, 2021, and directs that such reports be submitted not later than 30 days after the enactment of this Act.

### COUNTER-ISIS TRAIN AND EQUIP FUND

Fiscal year 2022 budget request .....	\$522,000,000
Committee recommendation .....	500,000,000
Change from budget request .....	-22,000,000

The Committee recommends an appropriation of \$500,000,000 for the Counter-ISIS Train and Equip Fund which will provide the following program in fiscal year 2022:

#### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
Iraq Train and Equip .....	345,000	345,000	0
Syria Train and Equip .....	177,000	155,000	-- 22,000
Program decrease .....		-22,000	
<b>TOTAL, COUNTER-ISIS TRAIN AND EQUIP FUND .....</b>	<b>522,000</b>	<b>500,000</b>	<b>-- 22,000</b>



## COUNTER-ISIS TRAIN AND EQUIP FUND

The Committee recommendation supports the Iraqi Security Forces, Kurdish Peshmerga, and the Syrian Democratic Forces to participate in activities to counter the Islamic State of Iraq and Syria (ISIS). The Committee recommendation includes \$345,000,000 to counter ISIS in Iraq, including stipend support to the Ministry of Peshmerga Affairs, if necessary, to ensure the Peshmerga's continued ability to conduct operations against ISIS. The Committee expects that future budget requests will provide a glidepath for stipend support while continuing training, equipment, and sustainment. The Committee also notes that continued insecurity in northern Iraq has hindered the return of religious minorities and encourages a focus on programs that increase security in these areas.

The Committee recommendation includes \$155,000,000 to counter ISIS in Syria. The Committee continues to require that the Secretary of Defense ensure elements are appropriately vetted and receiving commitments that they promote respect for human rights and the rule of law.

The Committee 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 by the Department of Defense. The Committee also directs the Secretary of Defense to consult with the House and Senate Appropriations Committees prior to submitting any notification for construction for facility fortification.

The Committee supports efforts to normalize the security relationship with Iraq. In line with expected progress to normalize security assistance, the Committee recommendation reduces funding requested under Operation and Maintenance, Air Force, for the Office of Security Cooperation-Iraq.

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

## OPERATION AND MAINTENANCE, ARMY RESERVE

Fiscal year 2022 budget request .....	\$3,000,635,000
Committee recommendation .....	2,992,135,000
Change from budget request .....	- 8,500,000

The Committee recommends an appropriation of \$2,992,135,000 for Operation and Maintenance, Army Reserve which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, ARMY RESERVE			
BUDGET ACTIVITY 1: OPERATING FORCES			
10			
	LAND FORCES		
	MODULAR SUPPORT BRIGADES.....	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	584,513
100	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION .....	342,433	342,433
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	2,872,715
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	RECRUITING AND ADVERTISING.....	48,289	48,289
	TOTAL, BUDGET ACTIVITY 4.....	127,920	127,920
	HISTORICAL UNOBLIGATION.....	---	-10,000
	TRAUMA TRAINING.....	---	+1,500
	TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE.....	3,000,635	2,992,135
			-8,500

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
 [in thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
HISTORICAL UNOBLIGATED BALANCES		-10,000	-10,000
TRAUMA TRAINING		1,500	1,500

## OPERATION AND MAINTENANCE, NAVY RESERVE

Fiscal year 2022 budget request .....	\$1,148,698,000
Committee recommendation .....	1,147,698,000
Change from budget request .....	- 1,000,000

The Committee recommends an appropriation of \$1,147,698,000 for Operation and Maintenance, Navy Reserve which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
OPERATION AND MAINTENANCE, NAVY RESERVE				
BUDGET ACTIVITY 1: OPERATING FORCES				
10	OPERATING FORCES			
	MISSION AND OTHER FLIGHT OPERATIONS.....	628,522	628,522	---
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.....	18,489	18,489	---
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	42,311	---
120	BASE OPERATING SUPPORT.....	103,606	103,606	---
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	TOTAL, BUDGET ACTIVITY 1.....	1,131,491	1,131,491	---
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES				
130	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
	ADMINISTRATION.....	1,943	1,943	---
140	MILITARY MANPOWER & PERSONNEL MANAGEMENT.....	12,191	12,191	---
150	ACQUISITION AND PROGRAM MANAGEMENT.....	3,073	3,073	---
<hr/>				
	TOTAL, BUDGET ACTIVITY 4.....	17,207	17,207	---
	HISTORICAL UNOBLIGATION.....	---	-2,500	-2,500
	TRAUMA TRAINING.....	---	1,500	+1,500
<hr/>				
	TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE.....	1,148,698	1,147,898	-1,000
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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
HISTORICAL UNOBLIGATED BALANCES		-2,500	-2,500
TRAUMA TRAINING		1,500	1,500

# OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

Fiscal year 2022 budget request .....	\$285,050,000
Committee recommendation .....	286,550,000
Change from budget request .....	+1,500,000

The Committee recommends an appropriation of \$286,550,000 for Operation and Maintenance, Marine Corps Reserve which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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	42,702	---
40 BASE OPERATING SUPPORT.....	109,210	109,210	---
TOTAL, BUDGET ACTIVITY 1.....	270,994	270,994	---
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	+1,500
=====			
TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE	285,050	286,550	+1,500
=====			



EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

O-1	Budget Request	Committee Recommended	Change from Request
TRAUMA TRAINING		1,500	1,500

# OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Fiscal year 2022 budget request .....	\$3,352,106,000
Committee recommendation .....	3,335,606,000
Change from budget request .....	- 16,500,000

The Committee recommends an appropriation of \$3,335,606,000 for Operation and Maintenance, Air Force Reserve which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
OPERATION AND MAINTENANCE, AIR FORCE RESERVE				
BUDGET ACTIVITY 1: OPERATING FORCES				
AIR OPERATIONS				
10	PRIMARY COMBAT FORCES.....	1,665,015	1,665,015	---
20	MISSION SUPPORT OPERATIONS.....	179,486	179,486	---
30	DEPOT PURCHASE EQUIPMENT MAINTENANCE.....	530,540	530,540	---
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	114,987	114,987	---
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	254,831	254,831	---
60	BASE SUPPORT.....	470,801	470,801	---
70	CYBERSPACE ACTIVITIES.....	1,372	1,372	---
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	TOTAL, BUDGET ACTIVITY 1.....	3,217,032	3,217,032	---
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	---
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	TOTAL, BUDGET ACTIVITY 4.....	135,074	135,074	---
	HISTORICAL UNOBLIGATION.....	---	-18,000	-18,000
	TRAUMA TRAINING.....	---	1,500	+1,500
=====				
	TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE.	3,352,106	3,335,606	-16,500
=====				

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

O-1	Budget Request	Committee Recommended	Change from Request
HISTORICAL UNOBLIGATED BALANCES		-18,000	-18,000
TRAUMA TRAINING		1,500	1,500

# OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

Fiscal year 2022 budget request .....	\$7,647,209,000
Committee recommendation .....	7,617,209,000
Change from budget request .....	- 30,000,000

The Committee recommends an appropriation of \$7,617,209,000 for Operation and Maintenance, Army National Guard which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST	
OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD				
BUDGET ACTIVITY 1: OPERATING FORCES				
10	LAND FORCES			
	MANEUVER UNITS.....	799,854	812,854	+13,000
20	MODULAR SUPPORT BRIGADES.....	211,561	211,561	---
30	ECHELONS ABOVE BRIGADE.....	835,709	835,709	---
40	THEATER LEVEL ASSETS.....	101,179	101,179	---
50	LAND FORCES OPERATIONS SUPPORT.....	34,436	34,436	---
60	AVIATION ASSETS.....	1,110,416	1,100,416	-10,000
70	LAND FORCES READINESS			
	FORCE READINESS OPERATIONS SUPPORT.....	704,827	704,827	---
80	LAND FORCES SYSTEMS READINESS.....	47,886	47,886	---
90	LAND FORCES DEPOT MAINTENANCE.....	244,439	244,439	---
100	LAND FORCES READINESS SUPPORT			
	BASE OPERATIONS SUPPORT.....	1,097,960	1,097,960	---
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	956,988	956,988	---
120	MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	1,047,870	1,047,870	---
130	CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	6,071	6,071	---
140	CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,828	7,828	---
TOTAL, BUDGET ACTIVITY 1.....				
	7,209,024	7,212,024	+3,000	
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES				
150	ADMINISTRATION AND SERVICEWIDE ACTIVITIES			
	SERVICEWIDE TRANSPORTATION.....	8,017	8,017	---
160	ADMINISTRATION.....	76,993	81,993	+5,000
170	SERVICEWIDE COMMUNICATIONS.....	101,113	101,113	---
180	MANPOWER MANAGEMENT.....	8,920	8,920	---
190	OTHER PERSONNEL SUPPORT.....	240,292	240,292	---

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
200 REAL ESTATE MANAGEMENT.....	2,850	2,850	---
TOTAL, BUDGET ACTIVITY 4.....	438,185	443,185	+5,000
HISTORICAL UNOBLIGATION.....	---	-40,000	-40,000
TRAUMA TRAINING.....	---	2,000	+2,000
=====			
TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.	7,647,209	7,617,209	-30,000
=====			

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

<b>O-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>111 MANEUVER UNITS</b>	<b>799,854</b>	<b>812,854</b>	<b>13,000</b>
Program increase - Northern Strike		13,000	
<b>116 AVIATION ASSETS</b>	<b>1,110,416</b>	<b>1,100,416</b>	<b>-10,000</b>
Unjustified growth		-10,000	
<b>431 ADMINISTRATION</b>	<b>76,993</b>	<b>81,993</b>	<b>5,000</b>
Program increase - State Partnership Program		5,000	
<b>HISTORICAL UNOBLIGATED BALANCES</b>		<b>-40,000</b>	<b>-40,000</b>
<b>TRAUMA TRAINING</b>		<b>2,000</b>	<b>2,000</b>



# OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Fiscal year 2022 budget request .....	\$6,574,020,000
Committee recommendation .....	6,568,750,000
Change from budget request .....	- 5,270,000

The Committee recommends an appropriation of \$6,568,750,000 for Operation and Maintenance, Air National Guard which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATION AND MAINTENANCE, AIR NATIONAL GUARD			
BUDGET ACTIVITY 1: OPERATING FORCES			
10 AIR OPERATIONS			
10 AIRCRAFT OPERATIONS.....	2,281,432	2,291,432	+10,000
20 MISSION SUPPORT OPERATIONS.....	582,848	586,548	+3,700
30 DEPOT PURCHASE EQUIPMENT MAINTENANCE.....	1,241,318	1,241,318	---
40 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	353,193	353,193	---
50 CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	1,077,654	1,077,654	---
60 BASE SUPPORT.....	908,198	927,228	+19,030
70 CYBERSPACE SUSTAINMENT.....	23,895	23,895	---
80 CYBERSPACE ACTIVITIES.....	17,263	17,263	---
TOTAL, BUDGET ACTIVITY 1.....	6,485,801	6,518,531	+32,730
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
90 ADMINISTRATION.....	48,455	48,455	---
100 RECRUITING AND ADVERTISING.....	41,764	41,764	---
TOTAL, BUDGET ACTIVITY 4.....	88,219	88,219	---
HISTORICAL UNOBLIGATION.....	---	-40,000	-40,000
TRAUMA TRAINING.....	---	2,000	+2,000
TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD.,			
	6,574,020	6,568,750	-5,270

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

<b>O-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>11F AIRCRAFT OPERATIONS</b>	<b>2,281,432</b>	<b>2,291,432</b>	<b>10,000</b>
Program Increase - RC-28B		10,000	
<b>11G MISSION SUPPORT OPERATIONS</b>	<b>582,948</b>	<b>586,548</b>	<b>3,700</b>
Program Increase - State Partnership Program		3,700	
<b>11Z BASE OPERATING SUPPORT</b>	<b>908,198</b>	<b>927,228</b>	<b>19,030</b>
Program Increase - PFAS remediation		19,030	
<b>TRAUMA TRAINING</b>		<b>2,000</b>	<b>2,000</b>
<b>HISTORICAL UNOBLIGATED BALANCES</b>		<b>-40,000</b>	<b>-40,000</b>

## UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES

Fiscal year 2022 budget request .....	\$15,589,000
Committee recommendation .....	15,589,000
Change from budget request .....	-----

The Committee recommends an appropriation of \$15,589,000 for the United States Court of Appeals for the Armed Forces.

### ENVIRONMENTAL RESTORATION, ARMY

Fiscal year 2022 budget request .....	\$200,806,000
Committee recommendation .....	251,008,000
Change from budget request .....	+50,202,000

The Committee recommends an appropriation of \$251,008,000 for Environmental Restoration, Army.

### ENVIRONMENTAL RESTORATION, NAVY

Fiscal year 2022 budget request .....	\$298,250,000
Committee recommendation .....	372,813,000
Change from budget request .....	+74,563,000

The Committee recommends an appropriation of \$372,813,000 for Environmental Restoration, Navy.

### ENVIRONMENTAL RESTORATION, AIR FORCE

Fiscal year 2022 budget request .....	\$301,768,000
Committee recommendation .....	377,210,000
Change from budget request .....	+75,442,000

The Committee recommends an appropriation of \$377,210,000 for Environmental Restoration, Air Force.

### ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

Fiscal year 2022 budget request .....	\$8,783,000
Committee recommendation .....	10,979,000
Change from budget request .....	+2,196,000

The Committee recommends an appropriation of \$10,979,000 for Environmental Restoration, Defense-Wide.

### ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

Fiscal year 2022 budget request .....	\$218,580,000
Committee recommendation .....	292,580,000
Change from budget request .....	+74,000,000

The Committee recommends an appropriation of \$292,580,000 for Environmental Restoration, Formerly Used Defense Sites. The Committee expects the Secretary of Defense and the Service Secretaries to execute the Military Munitions Response Program in a manner consistent with the budget request.

## OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

Fiscal year 2022 budget request .....	\$110,051,000
Committee recommendation .....	150,051,000
Change from budget request .....	+40,000,000

The Committee recommends an appropriation of \$150,051,000 for Overseas Humanitarian, Disaster, and Civic Aid, which will provide the following program in fiscal year 2022:

## EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

(In thousands of dollars)

	Budget Request	Committee Recommended	Change from Request
FOREIGN DISASTER RELIEF .....	20,000	25,000	5,000
Program increase .....		5,000	
HUMANITARIAN ASSISTANCE .....	75,051	102,551	27,500
Program increase .....		27,500	
HUMANITARIAN MINE ACTION PROGRAM .....	15,000	22,500	7,500
Program increase .....		7,500	
<b>TOTAL, OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID .....</b>	<b>110,051</b>	<b>150,051</b>	<b>40,000</b>

## OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

The Committee directs the Secretary of Defense to submit a spend plan to the House and Senate Appropriations Committees not later than 45 days after the enactment of this Act for the Humanitarian Assistance and the Humanitarian Mine Action Program. The plan shall include amounts planned for each combatant command, country, and program area, as well as a comparison to funding provided in the previous two fiscal years. The Committee further directs that such information be included in the justification materials that accompany the fiscal year 2023 budget request.

The Committee is concerned that humanitarian assistance shipping programs have reduced shipments to areas of need, particularly in Africa and Asia. The Committee directs the Secretary of Defense to submit a report to the House and Senate Appropriations Committees not later than 90 days after the enactment of this Act on measures to ensure the equitable distribution of humanitarian assistance across countries in need, including assistance that supports basic education.

## COOPERATIVE THREAT REDUCTION ACCOUNT

Fiscal year 2022 budget request .....	\$239,849,000
Committee recommendation .....	344,849,000
Change from budget request .....	+105,000,000

The Committee recommends an appropriation of \$344,849,000 for the Cooperative Threat Reduction Account which will provide the following program in fiscal year 2022:

## EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

(In thousands of dollars)

	Budget Request	Committee Recommended	Change from Request
Strategic Offensive Arms Elimination .....	2,997	2,997	0

## EXPLANATION OF PROJECT LEVEL ADJUSTMENTS—Continued

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
Chemical Weapons Destruction .....	13,250	13,250	0
Global Nuclear Security .....	17,767	17,767	0
Biological Threat Reduction Program .....	124,022	229,022	105,000
Program increase—Biological Threat Reduction Program .....		105,000	
Proliferation Prevention Program .....	58,754	58,754	0
Other Assessments/Admin Costs .....	23,059	23,059	0
TOTAL, COOPERATIVE THREAT REDUCTION ACCOUNT .....	239,849	344,849	105,000

## COOPERATIVE THREAT REDUCTION PROGRAM

The Committee supports the biological threat reduction program and its crucial role in detecting, preparing for, and fighting emerging global diseases, including pandemics, as well as reducing the proliferation of biological weapons and related technologies and expertise. The Committee recommendation includes \$229,022,000, an increase of \$105,000,000 above the budget request, to expand the program's cooperation with partner nations to improve biosafety and biosecurity and surveillance of potentially dangerous disease outbreaks. The Committee directs the Director of the Defense Threat Reduction Agency to submit a plan to the congressional defense committees not later than 90 days after the enactment of this Act detailing specific projects and activities that will be conducted in fiscal year 2022 and the associated metrics to evaluate the effectiveness of the program.

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE  
DEVELOPMENT ACCOUNT

Fiscal year 2022 budget request .....	\$54,679,000
Committee recommendation .....	54,679,000
Change from budget request .....	— — —

The Committee recommends an appropriation of \$54,679,000 for the Department of Defense Acquisition Workforce Development Account.

TITLE III  
PROCUREMENT

The fiscal year 2022 Department of Defense procurement budget request totals \$132,546,005,000. The Committee recommendation provides \$134,288,195,000 for the procurement accounts. The table below summarizes the Committee recommendations:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY AMOUNT
SUMMARY					
ARMY					
AIRCRAFT.....	---	2,808,452	---	3,215,131	+406,679
MISSILES.....	---	3,558,251	---	3,498,591	-59,660
WEAPONS AND TRACKED COMBAT VEHICLES.....	---	3,875,803	---	3,811,616	-64,277
AMMUNITION.....	---	2,155,110	---	2,243,933	+88,823
OTHER.....	---	8,873,558	---	8,637,213	-236,345
TOTAL, ARMY.....	---	21,270,264	---	21,304,484	+34,220
NAVY					
AIRCRAFT.....	---	16,477,178	---	15,998,575	-478,603
WEAPONS.....	---	4,220,705	---	3,718,711	-501,994
AMMUNITION.....	---	588,018	---	879,388	+291,370
SHIPS.....	---	22,571,069	---	23,468,398	+897,329
OTHER.....	---	10,875,812	---	10,451,162	-424,650
MARINE CORPS.....	---	3,043,091	---	2,835,365	-207,726
TOTAL, NAVY.....	---	58,175,963	---	58,365,899	+189,936
AIR FORCE					
AIRCRAFT.....	---	15,727,659	---	16,628,047	+900,388
MISSILES.....	---	2,669,811	---	2,529,452	-140,359
AMMUNITION.....	---	795,168	---	872,321	+77,153
OTHER.....	---	25,251,137	---	25,792,301	+541,164
TOTAL, AIR FORCE.....	---	44,443,785	---	45,122,631	+678,846
SPACE FORCE					
SPACE PROGRAMS.....	---	2,766,854	---	2,741,708	-25,146
TOTAL, SPACE FORCE.....	---	2,766,854	---	2,741,708	-25,146
DEFENSE-WIDE					
DEFENSE-WIDE.....	---	5,348,212	---	5,413,548	+65,336
NATIONAL GUARD AND RESERVE EQUIPMENT.....	---		---	950,000	+950,000
DEFENSE PRODUCTION ACT PURCHASES.....	---	340,927	---	385,827	+44,900
TOTAL PROCUREMENT.....	---	132,548,005	---	134,288,195	+1,740,190



## 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 report.

## FUNDING INCREASES

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

## PROCUREMENT SPECIAL INTEREST ITEMS

Items for which additional funds have been 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 this report are congressional special interest items for the purpose of the Base for Reprogramming (DD Form 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, as specifically addressed elsewhere in this report.

## AIRCRAFT PROCUREMENT, ARMY

Fiscal year 2022 budget request .....	\$2,806,452,000
Committee recommendation .....	3,215,131,000
Change from budget request .....	+408,679,000

The Committee recommends an appropriation of \$3,215,131,000 for Aircraft Procurement, Army which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	REQUEST AMOUNT
AIRCRAFT PROCUREMENT, ARMY						
AIRCRAFT						
1	FIXED WING					
	UTILITY F/W AIRCRAFT.....	---	---	0,000	---	+0,000
4	SMALL UNMANNED AIRCRAFT SYSTEM.....	---	16,005	---	16,005	---
ROTARY						
7	AH-64 APACHE BLOCK IIIA REMAN.....	30	604,136	30	464,136	--- -10,000
8	AH-64 APACHE BLOCK IIIA REMAN (AP-CY).....	---	192,230	---	192,230	---
10	UH-60 BLACKHAWK (NYP).....	24	630,253	33	841,763	+8 +211,500
11	UH-60 BLACKHAWK (NYP) (AP-CY).....	---	146,068	---	146,068	---
12	UH-60 BLACKHAWK L AND V MODELS.....	24	160,205	24	161,405	--- +1,200
13	CH-47 HELICOPTER.....	6	140,218	11	266,116	+5 +140,900
14	CH-47 HELICOPTER (AP-CY).....	---	18,550	---	47,659	--- +29,000
TOTAL, AIRCRAFT.....		---	1,818,684	---	2,191,264	+372,600
MODIFICATION OF AIRCRAFT						
17	GRAY EAGLE MODS2.....	---	3,143	---	33,143	--- +30,000
18	MULTI SENSOR ASN RECON.....	---	127,605	---	122,910	--- -4,755
19	AH-64 MODS.....	---	116,560	---	118,980	--- +2,400
20	CH-47 CARGO HELICOPTER MODS (NYP).....	---	9,918	---	10,918	--- +10,000
21	GRCS SEMA MODS.....	---	2,762	---	2,762	---
22	ARL SEMA MODS.....	---	9,437	---	9,437	---
23	EMARSS SEMA MODS.....	---	1,568	---	1,568	---
24	UTILITY/CARGO AIRPLANE MODS.....	---	8,530	---	8,530	---
25	UTILITY HELICOPTER MODS.....	---	15,828	---	15,828	---
26	NETWORK AND MISSION PLAN.....	---	29,208	---	29,208	---
27	COMMS, NAV SURVEILLANCE.....	---	58,117	---	58,117	---
28	AVIATION ASSURED PNT.....	---	47,028	---	45,862	--- -1,166
30	GATH ROLLUP.....	---	16,776	---	16,776	---
31	RQ-7 UAV MODS.....	---	---	---	6,000	--- +6,000
32	UAS MODS.....	---	3,840	---	3,840	---
TOTAL, MODIFICATION OF AIRCRAFT.....		---	452,976	---	492,453	+40,079

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
SUPPORT EQUIPMENT AND FACILITIES						
33. GROUND SUPPORT AVIONICS						
AIRCRAFT SURVIVABILITY EQUIPMENT.....	---	64,561	---	64,561	---	---
34. SURVIVABILITY CM.....	---	5,104	---	5,104	---	---
35. CMWS.....	---	148,570	---	148,570	---	---
36. COMMON INFRARED COUNTERMEASURES (CIRCM).....	120	240,412	120	236,412	---	-4,000
OTHER SUPPORT						
38. COMMON GROUND EQUIPMENT.....	---	13,661	---	13,661	---	---
39. AIRCREW INTEGRATED SYSTEMS.....	---	41,426	---	41,426	---	---
40. AIR TRAFFIC CONTROL.....	---	21,759	---	21,759	---	---
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	---	535,392	---	531,392	---	+4,000
		=====		=====		=====
TOTAL, AIRCRAFT PROCUREMENT, ARMY.....	---	2,806,452	---	3,215,121	---	+408,679
		=====		=====		=====

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

P-1	Budget Request	Committee Recommended	Change from Request
1 UTILITY F/W AIRCRAFT Program increase - fixed wing avionics upgrade	0	6,000 6,000	6,000
7 AH-64 APACHE BLOCK IIIA REMAN Unit cost growth	504,136	494,136 -10,000	-10,000
10 UH-60 BLACKHAWK M MODEL (MYP) Program increase - nine HH-60M for the National Guard	630,263	841,763 211,500	211,500
12 UH-60 BLACK HAWK L AND V MODELS UH-60V unit cost growth	166,205	161,405 -4,800	-4,800
13 CH-47 HELICOPTER Program increase - F Block I)	145,218	286,118 140,900	140,900
14 CH-47 HELICOPTER ADVANCE PROCUREMENT (CY) Program increase - F Block II	18,659	47,659 29,000	29,000
17 GRAY EAGLE MODS2 Program increase - recapitalization of legacy MQ-1C to extended range MDO configuration	3,143	33,143 30,000	30,000
18 MULTI SENSOR ABN RECON Spares previously funded	127,665	122,910 -4,755	-4,755
20 CH-47 CARGO HELICOPTER MODS (MYP) Program increase - hybrid enhanced ballistic missile protection system	9,918	19,918 10,000	10,000
29 AVIATION ASSURED PNT Fielding costs previously funded	47,026	46,862 -1,166	-1,166
31 RQ-7 UAV MODS Program increase - block III kit installation	0	6,000 6,000	6,000
36 COMMON INFRARED COUNTERMEASURES (CIRCM) Fielding costs previously funded	240,412	236,412 -4,000	-4,000

## MISSILE PROCUREMENT, ARMY

Fiscal year 2022 budget request .....	\$3,556,251,000
Committee recommendation .....	3,496,591,000
Change from budget request .....	- 59,660,000

The Committee recommends an appropriation of \$3,496,591,000 for Missile Procurement, Army which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED	CHANGE FROM REQUEST
		QTY.	AMOUNT	QTY.	AMOUNT
MISSILE PROCUREMENT, ARMY					
OTHER MISSILES					
SURFACE-TO-AIR MISSILE SYSTEM					
2	Lower Tier Air and Missile Defense (AMT) Sen.....		35,473	33,473	-2,000
3	H-SHORAD - PROCUREMENT.....	37	331,575	37	331,575
4	NSE MISSILE.....	180	776,696	180	771,696
5	PRECISION STRIKE MISSILE (PRSM).....	110	166,130	110	166,130
6	INDIRECT FIRE PROTECTION CAPABILITY INC 2 - I.....		25,253	19,053	-6,200
AIR-TO-SURFACE MISSILE SYSTEM					
7	HELLFIRE SYS SUMMARY.....	802	118,800	802	115,431
8	JOINT AIR-TO-GROUND MSLS (JAGM).....	388	162,177	322	131,271
9	LONG RANGE PRECISION MUNITION.....	179	44,744	179	44,744
ANTI-TANK/ASSAULT MISSILE SYSTEM					
10	JAVELIN (RAMS-B) SYSTEM SUMMARY.....	376	120,842	376	118,812
11	TOW 2 SYSTEM SUMMARY.....	687	104,412	687	101,912
12	GUIDED MLRS ROCKET (GMLRS).....	5,817	935,917	5,817	916,282
13	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR).....	3,048	29,574	3,048	29,574
14	HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS).....	19	128,438	19	128,438
16	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS).....	900	68,278	900	68,278
	TOTAL, OTHER MISSILES.....		3,038,309		2,978,649
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

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST		RECOMMENDED	CHANGE FROM REQUEST
	QTY	AMOUNT	QTY	AMOUNT
25 SPARES AND REPAIR PARTS.....	---	5,019	---	5,019
26 SUPPORT EQUIPMENT AND FACILITIES				
AIR DEFENSE TARGETS.....	---	10,818	---	10,818
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	---	10,818	---	10,818
TOTAL, MISSILE PROCUREMENT, ARMY.....		3,556,251		3,496,581
				-59,660

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

P-1	Budget Request	Committee Recommended	Change from Request
2 LOWER TIER AIR AND MISSILE DEFENSE (AMD) SEN IPF excess request	35,473	33,473 -2,000	-2,000
4 MSE MISSILE Obsolescence	776,696	771,696 -5,000	-5,000
6 INDIRECT FIRE PROTECTION CAPABILITY INC 2-I Maintain level of effort	25,253	19,053 -6,200	-6,200
7 HELLFIRE SYS SUMMARY Price savings	118,800	115,431 -3,369	-3,369
8 JOINT AIR-TO-GROUND MSLS (JAGM) Unit cost growth Contract delays	152,177	131,271 -8,762 -14,144	-20,906
10 JAVELIN (AAWS-M) SYSTEM SUMMARY AUR unit cost growth	120,842	118,812 -2,030	-2,030
11 TOW 2 SYSTEM SUMMARY Obsolescence	104,412	101,912 -2,500	-2,500
12 GUIDED MLRS ROCKET (GMLRS) Tooling request previously funded	935,917	918,262 -17,655	-17,655



# PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Fiscal year 2022 budget request .....	\$3,875,893,000
Committee recommendation .....	3,811,616,000
Change from budget request .....	-64,277,000

The Committee recommends an appropriation of \$3,811,616,000 for Procurement of Weapons and Tracked Combat Vehicles, Army which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST		RECOMMENDED		CHANGE FROM REQUEST	
	QTY.	AMOUNT	QTY.	AMOUNT	QTY.	AMOUNT
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY						
1 TRACKED COMBAT VEHICLES						
ARMORED MULTI PURPOSE VEHICLE (AMPV).....	---	104,727	---	83,000	---	-41,727
2 ASSAULT BREACHER VEHICLE (ABV).....	---	16,454	---	16,454	---	---
3 MOBILE PROTECTED FIREPOWER.....	23	286,977	23	286,977	---	---
5 MODIFICATION OF TRACKED COMBAT VEHICLES						
STRYKER UPGRADE.....	187	1,095,029	187	956,028	---	-49,000
6 BRADLEY PROGRAM (MOD).....	---	461,385	---	440,385	---	-21,000
7 M109 FOV MODIFICATIONS.....	---	2,534	---	2,534	---	---
8 PALADIN INTEGRATED MANAGEMENT (PIM).....	25	446,430	32	626,180	+7	+79,750
9 IMPROVED RECOVERY VEHICLE (M8RA2 HERCULES).....	---	52,059	---	52,059	---	---
10 ASSAULT BRIDGE (MOD).....	---	2,136	---	2,136	---	---
13 JOINT ASSAULT BRIDGE.....	23	110,773	23	110,773	---	---
15 ABRAMS UPGRADE PROGRAM.....	70	961,337	70	960,337	---	-1,000
16 VEHICLE PROTECTION SYSTEMS (VPS).....	---	60,286	---	75,286	---	+5,000
TOTAL, TRACKED COMBAT VEHICLES.....	---	3,660,126	---	3,492,149	---	-57,977
18 WEAPONS AND OTHER COMBAT VEHICLES						
MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPONS.....	---	31,623	---	31,623	---	---
19 MORTAR SYSTEMS.....	---	37,485	---	32,985	---	-4,500
20 XM320 GRENADE LAUNCHER MODULE (GLM).....	---	8,666	---	8,666	---	---
21 PRECISION SNIPER RIFLE.....	---	11,040	---	9,240	---	-1,800
23 CARBINE.....	---	4,434	---	4,434	---	---
24 NEXT GENERATION SQUAD WEAPON.....	---	97,087	---	97,087	---	---
26 HANDGUN.....	---	4,930	---	4,930	---	---
27 MOD OF WEAPONS AND OTHER COMBAT VEH						
MK-19 GRENADE MACHINE GUN MODS.....	---	13,027	---	13,027	---	---
28 M777 MODS.....	---	21,976	---	21,976	---	---
30 M2 50 CAL MACHINE GUN MODS.....	---	3,612	---	3,612	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST		RECOMMENDED	CHANGE FROM REQUEST
	QTY	AMOUNT	QTY	AMOUNT
				QTY
				AMOUNT
SUPPORT EQUIPMENT AND FACILITIES				
36 ITEMS LESS THAN \$5.0M (WOCV-WTCV)	---	1,066	---	1,066
37 PRODUCTION BASE SUPPORT (WOCV-WTCV)	---	90,619	---	90,919
TOTAL, WEAPONS AND OTHER COMBAT VEHICLES	---	325,787	---	319,487
				-6,300
TOTAL, PROCUREMENT OF WTCV, ARMY	---	3,879,893	---	3,811,816
				-68,077

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

P-1	Budget Request	Committee Recommended	Change from Request
1 ARMORED MULTI PURPOSE VEHICLE (AMPV) Maintain level of effort	104,727	63,000 -41,727	-41,727
5 STRYKER UPGRADE Fielding costs excess growth T&E excess growth CROWS-J overestimation	1,005,028	956,028 -16,000 -8,000 -23,000	-49,000
6 BRADLEY PROGRAM (MOD) Training device excess request Survivability enhancements insufficient justification Price discrepancies	461,385	440,385 -4,000 -2,000 -15,000	-21,000
8 PALADIN INTEGRATED MANAGEMENT (PIM) Program increase	446,430	526,180 79,750	79,750
15 ABRAMS UPGRADE PROGRAM Field modifications installation early to need	981,337	960,337 -21,000	-21,000
16 VEHICLE PROTECTION SYSTEMS (VPS) Excess request	80,286	75,286 -5,000	-5,000
19 MORTAR SYSTEMS Unit cost growth	37,485	32,985 -4,500	-4,500
21 PRECISION SNIPER RIFLE Unit cost growth	11,040	9,240 -1,800	-1,800

## MK93 MACHINE GUN MOUNT

The Committee encourages the Secretary of the Army to include funding for the MK93 machine gun mount upgrade in future budget requests, as well as details on the Army's plan to develop and deploy the previously funded soft-mount upgrade. This capability improves existing systems and supports Army modernization investments that rely on the performance of the MK93 mount.

## PROCUREMENT OF AMMUNITION, ARMY

Fiscal year 2022 budget request .....	\$2,158,110,000
Committee recommendation .....	2,243,933,000
Change from budget request .....	+85,823,000

The Committee recommends an appropriation of \$2,243,933,000 for Procurement of Ammunition, Army which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY AMOUNT
PROCUREMENT OF AMMUNITION, ARMY					
AMMUNITION					
SMALL/MEDIUM CAL AMMUNITION					
1		47,490		47,490	
2	CTG, 7.62MM, ALL TYPES.....	74,870		73,453	-1,417
3	NEXT GENERATION SQUAD WEAPON AMMUNITION.....	76,794		76,794	
4	CTG, HANDGUN, ALL TYPES.....	7,812		7,812	
5	CTG, .50 CAL, ALL TYPES.....	29,718		27,718	-2,000
6	CTG, 20MM, ALL TYPES.....	4,371		4,371	
8	CTG, 30MM, ALL TYPES.....	34,511		34,511	
9	CTG, 40MM, ALL TYPES.....	35,231		32,731	-2,500
MORTAR AMMUNITION					
10	60MM MORTAR, ALL TYPES.....	23,219		23,219	
11	81MM MORTAR, ALL TYPES.....	52,135		52,135	
12	120MM MORTAR, ALL TYPES.....	104,144		98,944	-5,200
TANK AMMUNITION					
13	CTG TANK 105MM AND 120MM: ALL TYPES.....	224,503		217,803	-6,900
ARTILLERY AMMUNITION					
14	CTG, ARTY, 75MM AND 105MM: ALL TYPES.....	26,709		26,709	
15	ARTILLERY PROJECTILE, 155MM, ALL TYPES.....	174,015		174,715	+700
16	PROJ 155MM EXTENDED RANGE XH982.....	350	73,498	350	61,138
17	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES.....	150,873		263,373	+112,500
MINES					
18	MINES AND CLEARING CHARGES, ALL TYPES.....	25,980		29,980	+5,000
19	CLOSE TERRAIN SHAPING OBSTACLE.....	34,781		34,781	
ROCKETS					
20	SHOULDER LAUNCHED MUNITIONS, ALL TYPES.....	24,408		24,408	
21	ROCKET, HYDRA 70, ALL TYPES.....	109,536		117,536	+8,000
OTHER AMMUNITION					
22	CAD/PAD ALL TYPES.....	6,549		6,549	
23	DEMOLITION MUNITIONS, ALL TYPES.....	27,904		27,904	
24	GRENADES, ALL TYPES.....	37,437		37,437	
25	SIGNALS, ALL TYPES.....	7,530		7,530	
26	SIMULATORS, ALL TYPES.....	8,350		8,350	
27	REACTIVE ARMOR TILES.....	17,755		17,755	

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY AMOUNT
28 MISCELLANEOUS AMMO COMPONENTS, ALL TYPES.....	---	2,784	---	2,784	---
29 ITEMS LESS THAN \$5 MILLION.....	---	17,797	---	17,797	---
30 AMMUNITION PECULIAR EQUIPMENT.....	---	12,290	---	12,290	---
31 FIRST DESTINATION TRANSPORTATION (AMMO).....	---	4,331	---	4,331	---
32 CLOSEOUT LIABILITIES.....	---	99	---	99	---
TOTAL, AMMUNITION.....	---	1,477,402	---	1,563,225	+85,823
AMMUNITION PRODUCTION BASE SUPPORT PRODUCTION BASE SUPPORT					
34 INDUSTRIAL FACILITIES.....	---	539,120	---	539,120	---
35 CONVENTIONAL MUNITIONS DEMILITARIZATION.....	---	139,410	---	139,410	---
36 ARMS INITIATIVE.....	---	3,178	---	3,178	---
TOTAL, AMMUNITION PRODUCTION BASE SUPPORT.....	---	680,708	---	680,708	---
TOTAL, PROCUREMENT OF AMMUNITION, ARMY.....	---	2,158,110	---	2,243,933	+85,823

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
2 CTG, 7.62MM, ALL TYPES Unit cost growth	74,870	73,453 -1,417	-1,417
5 CTG, .50 CAL, ALL TYPES Unit cost growth	29,716	27,716 -2,000	-2,000
9 CTG, 40MM, ALL TYPES BA54 and BA55 uncertainty	35,231	32,731 -2,500	-2,500
12 120MM MORTAR, ALL TYPES Unit cost growth	104,144	98,944 -5,200	-5,200
13 CARTRIDGES, TANK, 105MM AND 120MM, ALL TYPES Unit cost growth	224,503	217,603 -6,900	-6,900
15 ARTILLERY PROJECTILE, 155MM, ALL TYPES Unit cost growth Program increase - XM1113 and XM1128	174,015	174,715 -4,300 5,000	700
16 PROJ 155MM EXTENDED RANGE M982 Unit cost growth	73,498	61,138 -12,360	-12,360
17 ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL Unit cost growth Program increase - PGK	150,873	263,373 -7,500 120,000	112,500
18 MINES & CLEARING CHARGES, ALL TYPES Reduce carryover	25,980	20,980 -5,000	-5,000
21 ROCKET, HYDRA 70, ALL TYPES Program increase	109,536	117,536 8,000	8,000



## OTHER PROCUREMENT, ARMY

Fiscal year 2022 budget request .....	\$8,873,558,000
Committee recommendation .....	8,537,213,000
Change from budget request .....	- 336,345,000

The Committee recommends an appropriation of \$8,537,213,000 for Other Procurement, Army which will provide the following program in fiscal year 2022:

	REQUEST		RECOMMENDED		CHANGE FROM REQUEST	
	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
OTHER PROCUREMENT, ARMY						
TACTICAL AND SUPPORT VEHICLES						
2	TACTICAL VEHICLES					
	SEMITRAILERS, FLATBED	12,539	11,239	-1,300		
3	SEMITRAILERS, TANKERS	17,995	17,995			
4	HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV)	80,708	80,708			
5	GROUND MOBILITY VEHICLES (GMV)	29,807	29,807			
6	ARMG HMMWV MODERNIZATION PROGRAM		100,000	+100,000		
8	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES	574,562	477,288	-97,274		
9	TRUCK, DUMP, 20t (CCE)	8,882	10,532	+1,650		
10	FAMILY OF MEDIUM TACTICAL VEH (FMTV)	36,885	36,885			
11	FAMILY OF COLD WEATHER ALL-TERRAIN VEHICLE (C)	16,450	16,450			
12	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMEN	26,258	26,258			
13	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)	84,282	84,282			
14	PLS ESP	18,843	18,843			
17	TACTICAL WHEELED VEHICLE PROTECTION KITS	17,957	17,957			
18	MODIFICATION OF IN SVC EQUIP	29,349	29,349			
NON-TACTICAL VEHICLES						
20	PASSENGER CARRYING VEHICLES	1,232		-1,232		
21	NONTACTICAL VEHICLES, OTHER	24,248	19,248	-5,000		
TOTAL, TACTICAL AND SUPPORT VEHICLES		939,081	944,028	+4,944		
COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
22	COMM - JOINT COMMUNICATIONS SIGNAL MODERNIZATION PROGRAM	140,038	140,038			
23	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE	438,524	429,024	-7,500		
25	DISASTER INCIDENT RESPONSE COMMS TERMINAL (DI	3,863	3,863			
26	JCSR EQUIPMENT (JUSREDCOM)	4,845	4,845			
29	COMM - SATELLITE COMMUNICATIONS DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS	97,369	97,369			
30	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	120,550	120,550			
31	SNF TERM	38,129	38,129			
32	ASSURED POSITIONING, NAVIGATION AND TIMING	115,291	112,704	-2,587		
33	SMART-T (SPACE)	15,407	15,407			
34	GLOBAL BROADCAST SVC - GBS	2,763	2,763			

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED	CHANGE FROM REQUEST		
		QTY	AMOUNT	QTY	AMOUNT		
					QTY		
					AMOUNT		
37	COMM - COMBAT SUPPORT COMM COMM - C3 SYSTEM COE TACTICAL SERVER INFRASTRUCTURE (TSI).....	---	99,856	---	99,856	---	---
38	COMM - COMBAT COMMUNICATIONS HANDHELD MANPACK SMALL FORM FIT (HMS).....	---	775,069	---	724,099	---	-50,970
40	ARMY LINK 16 SYSTEMS.....	---	17,749	---	17,749	---	---
42	UNIFIED COMMAND SUITE.....	---	17,984	---	17,984	---	---
43	COTS COMMUNICATIONS EQUIPMENT.....	---	191,702	---	188,302	---	-3,400
44	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE.....	---	15,957	---	15,957	---	---
45	ARMY COMMUNICATIONS & ELECTRONICS.....	---	89,441	---	79,441	---	-10,000
47	COMM - INTELLIGENCE COMM 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	---	---
51	INFORMATION SECURITY INFORMATION SYSTEM SECURITY PROGRAM-ISSP.....	---	387	---	387	---	---
52	COMMUNICATIONS SECURITY (COMSEC).....	---	126,273	---	126,273	---	---
53	DEFENSIVE CYBER OPERATIONS.....	---	27,389	---	27,389	---	---
56	SIG CAPABILITY.....	---	21,303	---	17,303	---	-4,000
57	BIOMETRIC ENABLING CAPABILITY (BEC).....	---	914	---	914	---	---
59	COMM - LONG HAUL COMMUNICATIONS BASE SUPPORT COMMUNICATIONS.....	---	9,209	---	9,209	---	---
60	COMM - BASE COMMUNICATIONS INFORMATION SYSTEMS.....	---	219,026	---	214,026	---	-5,000
61	EMERGENCY MANAGEMENT MODERNIZATION PROGRAM.....	---	4,875	---	4,875	---	---
64	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM.....	---	223,001	---	218,001	---	-5,000
67	ELECT EQUIP ELECT EQUIP - TACT INT REL ACT (TIARA) JTT/CJCS-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.....	---	6,088	---	6,088	---	---
72	TROJAN.....	---	30,828	---	30,828	---	---
73	MOD OF IN-SVC EQUIP (INTEL SPT).....	---	39,039	---	39,039	---	---
74	BIOMETRIC TACTICAL COLLECTION DEVICES.....	---	11,097	---	11,097	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
76 ELECT EQUIP - ELECTRONIC WARFARE (EW) EW PLANNING AND MANAGEMENT TOOLS (ENPMT).....	---	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 HODS.....	---	47,642	---	47,642	---	---
83 NIGHT VISION DEVICES.....	---	1,092,341	---	876,735	---	-215,606
84 SMALL TACTICAL OPTICAL RIFLE MOUNTED MRF.....	---	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 (FLIR).....	---	11,329	---	11,329	---	---
89 COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS).....	---	80,058	---	80,058	---	---
90 JOINT BATTLE COMMAND - PLATFORM (JBC-P).....	---	263,881	---	253,881	---	-10,000
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	---	-5,000
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 (AND).....	---	87,193	---	87,193	---	---
100 JAMD BATTLE COMMAND SYSTEM.....	---	301,872	---	291,872	---	-10,000
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	---	3,160	---	+6,000
108 ELECT EQUIP - AUTOMATION ARMY TRAINING MODERNIZATION.....	---	8,833	---	8,833	---	---
109 AUTOMATED DATA PROCESSING EQUIPMENT.....	---	130,924	---	130,924	---	---
110 ACCESSIONS INFORMATION ENVIRONMENT (AIE).....	---	44,635	---	39,635	---	-5,000

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY AMOUNT	RECOMMENDED QTY AMOUNT	CHANGE FROM REQUEST QTY AMOUNT
111 GENERAL FUND ENTERPRISE BUSINESS SYSTEM.....	--- 1,452	--- 1,452	--- ---
112 HIGH PERF COMPUTING MOD PROGRAM.....	--- 89,943	--- 69,943	--- ---
113 CONTRACT WRITING SYSTEM.....	--- 16,957	--- 16,957	--- ---
114 CSS COMMUNICATIONS.....	--- 73,110	--- 73,110	--- ---
115 RESERVE COMPONENT AUTOMATION SYS (RCAS).....	--- 12,906	--- 12,906	--- ---
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	--- 5,491,061	--- -330,976
OTHER SUPPORT EQUIPMENT			
CHEMICAL DEFENSIVE EQUIPMENT			
118 FAMILY OF NON-LETHAL EQUIPMENT (FNLE).....	--- ---	--- 15,000	--- +15,000
119 BASE DEFENSE SYSTEMS (BDS).....	--- 82,205	--- 14,220	--- -48,075
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	--- -1,900
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-HSY.....	--- 5,628	--- 5,628	--- ---
128 HUSKY MOUNTED DETECTION SYSTEM (HMDS).....	--- 26,623	--- 26,623	--- ---
131 ROBOTICS AND APPLIQUE SYSTEMS.....	--- 124,233	--- 124,233	--- ---
132 RENDER SAFE SETS KITS OUTFITS.....	--- 84,000	--- 84,000	--- ---
COMBAT SERVICE SUPPORT EQUIPMENT			
134 HEATERS AND ECU'S.....	--- 7,116	--- 5,116	--- -2,000
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.....	--- 17,515	--- 17,515	--- ---
139 FORCE PROVIDER.....	--- 28,860	--- 28,860	--- ---
140 FIELD FEEDING EQUIPMENT.....	--- 2,321	--- 12,321	--- +10,000
141 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM.....	--- 40,240	--- 40,240	--- ---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
142 FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS.....	---	36,163	---	36,163	---	---
PETROLEUM EQUIPMENT						
144 QUALITY SURVEILLANCE EQUIPMENT (QSS).....	---	744	---	744	---	---
145 DISTRIBUTION SYSTEMS, PETROLEUM & WATER.....	---	72,296	---	72,296	---	---
MEDICAL EQUIPMENT						
146 COMBAT SUPPORT MEDICAL.....	---	132,145	---	132,145	---	+10,000
MAINTENANCE EQUIPMENT						
147 MOBILE MAINTENANCE EQUIPMENT SYSTEMS.....	---	14,766	---	12,766	---	-2,000
CONSTRUCTION EQUIPMENT						
154 ALL TERRAIN CRANES.....	---	112,784	---	107,284	---	-6,500
158 CONST EQUIP ESP.....	---	8,894	---	8,894	---	---
RAIL FLOAT CONTAINERIZATION EQUIPMENT						
156 ARMY WATERCRAFT ESP.....	---	44,409	---	44,409	---	---
159 MANEUVER SUPPORT VESSEL (MSV).....	---	76,660	---	76,660	---	---
GENERATORS						
161 GENERATORS AND ASSOCIATED EQUIPMENT.....	---	47,606	---	76,606	---	+29,000
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	---	79,565	---	---
165 TRAINING DEVICES, NONSYSTEM.....	---	174,644	---	174,644	---	---
166 SYNTHETIC TRAINING ENVIRONMENT (STE).....	---	122,104	---	92,268	---	-29,836
168 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING.....	---	11,642	---	10,642	---	-1,000
TEST MEASURE AND DIG EQUIPMENT (TMD)						
170 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE).....	---	42,934	---	40,934	---	-2,000
172 TEST EQUIPMENT MODERNIZATION (TEMOD).....	998	24,304	999	24,304	---	---
OTHER SUPPORT EQUIPMENT						
174 PHYSICAL SECURITY SYSTEMS (OPAS).....	---	69,930	---	69,930	---	+3,000
175 BASE LEVEL COM'L EQUIPMENT.....	---	27,623	---	27,623	---	---
176 MODIFICATION OF IN-SVC EQUIPMENT (DPA-3).....	---	32,392	---	37,392	---	+5,000
177 BUILDING, PRE-FAB, RELOCATABLE.....	---	32,227	---	32,227	---	---
179 SPECIAL EQUIPMENT FOR TEST AND EVALUATION.....	---	76,917	---	76,917	---	---
TOTAL, OTHER SUPPORT EQUIPMENT.....	---	2,103,198	---	2,082,855	---	-20,313

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST		RECOMMENDED		CHANGE FROM REQUEST	
	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
SPARE AND REPAIR PARTS						
180 INITIAL SPARES - C&E.....	---	9,272	---	9,272	---	---
181 TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEMS....	---	---	---	10,000	---	+10,000
TOTAL, OTHER PROCUREMENT, ARMY.....						
	---	8,873.558	---	8,537.213		-336,345

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

P-1	Budget Request	Committee Recommended	Change from Request
2 SEMITRAILERS, FLATBED Unit cost growth	12,539	11,239 -1,300	-1,300
6 ARNG HMMWV MODERNIZATION PROGRAM Program increase	0	100,000 100,000	100,000
8 JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICL Early to need	574,562	477,288 -97,274	-97,274
9 TRUCK, DUMP, 20T (CCE) Program increase	9,882	19,632 9,750	9,750
20 PASSENGER CARRYING VEHICLES Reduce carryover	1,232	0 -1,232	-1,232
21 NONTACTICAL VEHICLES, OTHER Excess carryover	24,246	19,246 -5,000	-5,000
23 TACTICAL NETWORK TECHNOLOGY MOD IN SVC SATCOM obsolescence	436,524	429,024 -7,500	-7,500
32 ASSURED POSITIONING, NAVIGATION AND TIMING Spares and repairs previously funded	115,291	112,791 -2,500	-2,500
38 HANDHELD MANPACK SMALL FORM FIT (HMS) Unit cost increase Support costs excess IVAS SCDR ahead of need	775,069	724,099 -10,899 -5,000 -35,071	-50,970
43 COTS COMMUNICATIONS EQUIPMENT Unit cost growth	191,702	185,302 -6,400	-6,400
45 ARMY COMMUNICATIONS & ELECTRONICS Insufficient justification	89,441	79,441 -10,000	-10,000
56 SIO CAPABILITY Insufficient justification	21,303	17,303 -4,000	-4,000
60 INFORMATION SYSTEMS Reduce carryover	219,026	214,026 -5,000	-5,000
64 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM EUCOM costs previously funded	223,001	218,001 -5,000	-5,000
83 NIGHT VISION DEVICES Laser target locator systems anticipated savings IVAS ahead of need	1,092,341	876,735 -2,140 -213,466	-215,606



P-1	Budget Request	Committee Recommended	Change from Request
90 JOINT BATTLE COMMAND - PLATFORM (JBC-P) Unit cost growth	263,661	263,661 -10,000	-10,000
96 COUNTERFIRE RADARS Facilitization costs excess request	31,694	26,694 -5,000	-5,000
100 IAMD BATTLE COMMAND SYSTEM Costs previously funded	301,872	291,872 -10,000	-10,000
107 MOD OF IN-SVC EQUIPMENT (ENFIRE) Program increase - land surveying systems	3,160	9,160 6,000	6,000
110 ACCESSIONS INFORMATION ENVIRONMENT (AIE) Excess growth	44,635	39,635 -5,000	-5,000
116 FAMILY OF NON-LETHAL EQUIPMENT (FNLE) Program increase - acoustic hailing device	0	15,000 15,000	15,000
119 BASE DEFENSE SYSTEMS (BDS) Requirement no longer valid	62,295	14,220 -48,075	-48,075
123 TACTICAL BRIDGE, FLOAT-RIBBON Unit cost growth	76,082	74,182 -1,900	-1,900
134 HEATERS AND ECUS Contract delays	7,116	5,116 -2,000	-2,000
140 FIELD FEEDING EQUIPMENT Program increase - multi-temperature refrigerated container program	2,321	12,321 10,000	10,000
146 COMBAT SUPPORT MEDICAL Program increase - AMEDDS hospital program	122,145	132,145 10,000	10,000
147 MOBILE MAINTENANCE EQUIPMENT SYSTEMS Underexecution	14,756	12,756 -2,000	-2,000
154 ALL TERRAIN CRANES Anticipated cost savings	112,784	107,284 -5,500	-5,500
161 GENERATORS AND ASSOCIATED EQUIP Program increase - AMMPS	47,606	76,606 29,000	29,000
166 SYNTHETIC TRAINING ENVIRONMENT (STE) RVCT ahead of need	122,104	92,266 -29,838	-29,838
168 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING Carryover	11,642	10,642 -1,000	-1,000
170 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) Anticipated cost savings	42,934	40,934 -2,000	-2,000

P-1		Budget Request	Committee Recommended	Change from Request
174	PHYSICAL SECURITY SYSTEMS (OPA3) Program increase - biometric fast lanes	86,930	88,930 3,000	3,000
176	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) Program increase - RTCH modernization	32,392	37,392 5,000	5,000
181	TACTICAL COMMUNICATIONS AND PROTECTIVE SYSTEMS Program increase - active hearing protection	0	10,000 10,000	10,000

## GENERAL FUND ENTERPRISE BUSINESS SYSTEM

The Army financial environment involves multiple financial systems at various stages of modernization. Only one of the Army systems currently is auditable and none of the systems can accomplish the broader Planning, Programming, Budget, and Execution (PPBE) process that is a fundamental part of the Department of Defense's financial environment. With the recent direction to migrate to the cloud to improve performance, it is prudent to investigate alternative solutions that could offer both a broader portfolio of capabilities and greater potential to accomplish the fundamental task of achieving auditability for the Army.

The Committee directs the Secretary of the Army, in coordination with the Army Chief Information and Financial Officers, to provide a report to the congressional defense committees not later than 90 days after the enactment of this Act which provides a detailed analysis of alternatives (AoA) regarding the General Fund Enterprise Business System (GFEBS). The AoA shall compare GFEBS to other financial systems within the Department of Defense, including comparisons to audit compliance; business process support; total ownership cost; data dominance capability; planning and budgeting; analytics; support to the PPBE process; and compliance with federal financial governance requirements. The AoA shall also include a comparison of Enterprise Resource Planning cloud leaders that hold existing Department of Defense authorizations, have a roadmap for required federal financials functionality as a potential solution, and support a common data model for finance, personnel, supply chain management, and procurement.

## ACTIVE HEARING PROTECTION

The Committee recognizes that military hearing loss and auditory injuries continue to occur during training events and combat operations. Active hearing protection can minimize training and battlefield hearing loss, improve overall situational awareness, and increase mission effectiveness, safety, and survivability. The Committee recommendation includes an increase of \$10,000,000 to acquire commercial-off-the-shelf advanced, active hearing protection products evaluated to protect the hearing of soldiers.

## TACTICAL WHEELED VEHICLE ACQUISITION

The Committee notes that the strategic posture of the tactical wheeled vehicle (TWV) industrial base is an important national security priority and encourages the Secretary of the Army to develop a long-term acquisition strategy that articulates requirements and resources needed to support multi-domain operations in future conflicts. The Army's Joint Light Tactical Vehicle (JLTV) is expected to remain in the inventory for the next 20 years, and the Committee supports the Army's decision for a full-and-open competitive process to help accelerate cost savings, capability upgrades, and lifecycle sustainment improvements. The Committee encourages the Secretary of the Army to consider the potential benefits of alternative competitive acquisition strategies as part of the JLTV re-compete and any future competitive TWV programs to support the long-term viability for a competitive TWV industrial base.

## AIRCRAFT PROCUREMENT, NAVY

Fiscal year 2022 budget request .....	\$16,477,178,000
Committee recommendation .....	16,998,875,000
Change from budget request .....	+521,697,000

The Committee recommends an appropriation of \$16,998,875,000 for Aircraft Procurement, Navy which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
AIRCRAFT PROCUREMENT, NAVY						
1 COMBAT AIRCRAFT						
F/A-18E/F (FIGHTER) HORNET (HYP).....	12	87,832	12	977,161	+12	+889,329
3 JOINT STRIKE FIGHTER CV.....	20	2,108,645	20	2,088,924	---	-19,721
4 JOINT STRIKE FIGHTER CV (AP-CY).....	---	249,146	---	185,685	---	-63,460
5 JSF STOVL.....	17	2,296,735	17	2,229,283	---	-27,452
6 JSF STOVL (AP-CY).....	---	216,814	---	216,814	---	---
7 CH-53K (HEAVY LIFT).....	9	1,260,264	11	1,481,096	+2	+194,742
8 CH-53K (HEAVY LIFT) (AP-CY).....	---	182,803	---	182,803	---	---
9 V-22 (MEDIUM LIFT).....	8	751,716	8	744,027	---	-7,689
11 UH-1Y/AH-1Z.....	---	939	---	939	---	---
13 P-8A POSEIDON.....	---	44,595	---	44,595	---	---
14 E-2D ADV HAWKEYE.....	5	765,945	5	733,293	---	-32,652
15 E-2D ADV HAWKEYE (AP-CY).....	---	118,938	---	118,938	---	---
TOTAL, COMBAT AIRCRAFT.....	---	8,070,471	---	9,003,578	---	+933,107
18 TRAINER AIRCRAFT						
ADVANCED HELICOPTER TRAINING SYSTEM.....	38	163,490	38	163,490	---	---
TOTAL, TRAINER AIRCRAFT.....	---	163,490	---	163,490	---	---
OTHER AIRCRAFT						
17 KC-130J.....	8	520,787	8	519,667	---	-1,120
18 KC-130J (AP-CY).....	---	88,088	---	88,088	---	---
21 MQ-4 TRITON.....	---	180,151	---	208,407	---	+128,256
23 MQ-8 UAV.....	---	49,249	---	49,249	---	---
24 STUASLD UAV.....	---	13,151	---	13,151	---	---
25 MQ-25 (AP-CY).....	---	47,468	---	---	---	-47,468
27 MARINE GROUP 5 UAS.....	8	233,888	8	272,666	+2	+38,988
TOTAL, OTHER AIRCRAFT.....	---	1,092,580	---	1,211,228	---	+118,648
MODIFICATION OF AIRCRAFT						
F-18 A-D UNIQUE.....	---	163,093	---	161,918	---	-1,177
31 F-18E/F AND EA-18G MODERNIZATION AND SUSTAIN.....	---	482,699	---	445,721	---	-37,178
32 MARINE GROUP 5 UAS SERIES.....	---	1,982	---	1,982	---	---
33 AEA SYSTEMS.....	---	23,296	---	20,221	---	-3,075
34 AV-8 SERIES.....	---	17,882	---	14,793	---	-3,089
35 INFRARED SEARCH AND TRACK (IRST).....	---	138,827	---	114,227	---	-24,600

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED	CHANGE FROM REQUEST		
		QTY	AMOUNT	QTY	AMOUNT		
					QTY		
					AMOUNT		
36	ADVERSARY.....	---	143,571	---	137,930	---	-5,641
37	F-18 SERIES.....	---	327,571	---	302,527	---	-25,044
38	H-53 SERIES.....	---	112,438	---	108,108	---	-4,330
39	HH-60 SERIES.....	---	84,794	---	94,794	---	10,000
40	H-1 SERIES.....	---	124,194	---	118,857	---	-5,337
41	EP-3 SERIES.....	---	28,848	---	28,848	---	---
42	E-2 SERIES.....	---	204,828	---	199,891	---	-4,935
43	TRAINER A/C SERIES.....	---	7,849	---	7,849	---	---
44	C-2A.....	---	2,843	---	2,843	---	---
45	C-130 SERIES.....	---	145,810	---	143,108	---	-2,504
46	FWSG.....	---	794	---	794	---	---
47	CARGO/TRANSPORT A/C SERIES.....	---	10,882	---	5,371	---	-5,311
48	E-6 SERIES.....	---	128,078	---	113,301	---	-14,728
49	EXECUTIVE HELICOPTERS SERIES.....	---	45,326	---	40,158	---	-5,168
51	T-45 SERIES.....	---	158,772	---	148,190	---	-10,582
52	POWER PLANT CHANGES.....	---	24,915	---	24,915	---	---
53	JPATS SERIES.....	---	22,858	---	20,868	---	-1,997
54	AVIATION LIFE SUPPORT MODS.....	---	2,477	---	2,477	---	---
55	COMMON ECM EQUIPMENT.....	---	110,574	---	110,574	---	---
56	COMMON AVIONICS CHANGES.....	---	118,838	---	97,680	---	-21,158
57	COMMON DEFENSIVE WEAPON SYSTEM.....	---	5,476	---	5,476	---	---
58	ID SYSTEMS.....	---	13,154	---	13,154	---	---
59	P-8 SERIES.....	---	131,288	---	154,797	---	23,509
60	MACTF EW FOR AVIATION.....	---	29,151	---	29,151	---	---
61	HQ'D SERIES.....	---	31,624	---	31,624	---	---
62	V-22 (TILT/ROTOR ACFT) OSPREY.....	---	312,831	---	310,512	---	-2,319
63	NEXT GENERATION JAMMER (NGJ).....	---	268,878	---	251,643	---	-17,235
64	F-35 STOVL SERIES.....	---	177,054	---	158,712	---	-18,342
65	F-35 CV SERIES.....	---	138,288	---	118,833	---	-19,455
66	QUICK REACTION CAPABILITY (QRC).....	---	88,563	---	88,563	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
67 MQ-4 SERIES.....	---	7,100	---	7,100	---	---
68 RQ-21 SERIES.....	---	14,120	---	14,120	---	---
TOTAL, MODIFICATION OF AIRCRAFT.....	---	3,878,149	---	3,569,859	---	-329,290
AIRCRAFT SPARES AND REPAIR PARTS						
72 SPARES AND REPAIR PARTS.....	---	2,339,877	---	2,227,743	---	-111,334
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES						
73 COMMON GROUND EQUIPMENT.....	---	517,267	---	489,633	---	-27,434
74 AIRCRAFT INDUSTRIAL FACILITIES.....	---	80,600	---	80,600	---	---
75 WAR CONSUMABLES.....	---	42,498	---	42,408	---	-90
76 OTHER PRODUCTION CHARGES.....	---	21,374	---	21,374	---	---
77 SPECIAL SUPPORT EQUIPMENT.....	---	271,774	---	201,774	---	-70,000
TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES.....	---	833,411	---	635,977	---	-197,434
TOTAL, AIRCRAFT PROCUREMENT, NAVY.....	---	16,477,178	---	16,998,875	---	+521,697

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[in thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
1	F/A-18E/F (FIGHTER) HORNET Production line shutdown early to need Program increase - 12 additional aircraft	87,832	977,161 -10,671 900,000	889,329
3	JOINT STRIKE FIGHTER CV Fixed JPO support excess growth	2,108,645	2,088,924 -19,721	-19,721
4	JOINT STRIKE FIGHTER CV (AP-CY) CFE - long lead excess to need	248,145	185,695 -63,450	-63,450
5	JSF STOVL Engines unit cost growth Fixed JPO support excess growth Program increase - depot acceleration	2,256,735	2,229,283 -33,884 -43,688 50,000	-27,452
7	CH-53K (HEAVY LIFT) GFE electronics excess growth NRE production capacity excess growth Airframe PGSE previously funded Engine PGSE previously funded Pubs/tech data previously funded Other ILS excess growth Program increase - two additional aircraft	1,286,264	1,481,006 -3,388 -16,000 -6,339 -4,370 -14,782 -12,379 250,000	194,742
9	V-22 (MEDIUM LIFT) Support costs previously funded	751,716	744,027 -7,689	-7,689
14	E-2D ADV HAWKEYE Avionics PGSE excess growth Other ILS excess growth	765,945	733,293 -17,552 -15,100	-32,652
17	KC-130J NRE previously funded	520,787	519,667 -1,120	-1,120
21	MQ-4 TRITON Airframe PGSE previously funded Program increase - one additional aircraft	160,151	288,407 -21,744 150,000	128,256
25	MQ-25 (AP-CY) Early to need	47,468	0 -47,468	-47,468
27	MARINE GROUP 5 UAS Airframe excess unit cost Program increase - two additional aircraft	233,656	272,666 -1,020 40,000	39,980
30	F-18 A-D UNIQUE F/A-18 aircraft structural life management plan (OSIP 11- 99) inner wing installation excess cost growth	163,095	161,918 -1,177	-1,177



P-1		Budget Request	Committee Recommended	Change from Request
31	<b>F-18E/F AND EA-18G MODERNIZATION AND SUSTAINMENT</b>	482,899	445,721	-37,178
	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	<b>AEA SYSTEMS</b>	23,296	20,224	-3,075
	Excess support costs		-3,075	
34	<b>AV-8 SERIES</b>	17,882	14,793	-3,089
	Obsolescence replacement (OSIP 006-06) other support costs prior year carryover		-3,089	
35	<b>INFRARED SEARCH AND TRACK (IRST)</b>	138,827	114,227	-24,600
	Reduction of four units		-24,600	
36	<b>ADVERSARY</b>	143,571	137,930	-5,641
	F-18 SLEP (OSIP 011-21) Falcon STAR excess NRE		-5,641	
37	<b>F-18 SERIES</b>	327,571	302,527	-25,044
	Core avionics improvements/upgrades (OSIP 023-04) SCS previously funded		-2,033	
	DPT-N A-kits (A2) Growler kits early to need (OSIP 001-10)		-232	
	DPT-N B-kits (ECP 6509) early to need (OSIP 001-10)		-21,640	
	SUU-63 unit cost growth (OSIP 10-18)		-1,139	
38	<b>H-63 SERIES</b>	112,436	109,106	-3,330
	T-64 engine fuel controls (OSIP 010-05) previously funded		-3,330	
40	<b>H-1 SERIES</b>	124,194	118,857	-5,337
	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	<b>E-2 SERIES</b>	204,826	199,991	-4,835
	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	<b>C-130 SERIES</b>	145,610	143,106	-2,504
	A and B kits (OSIP 019-14) unit cost growth		-2,504	
47	<b>CARGO/TRANSPORT A/C SERIES</b>	10,682	5,371	-5,311
	Modifications (OSIP 012-04) previously funded		-5,311	

P-1		Budget Request	Committee Recommended	Change from Request
48	<b>E-6 SERIES</b>	128,029	113,301	-14,728
	Phase 1 AC electrical B-klt (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	
49	<b>EXECUTIVE HELICOPTER SERIES</b>	45,326	40,168	-5,158
	Shipboard interoperability (OSIP 008-21) previously funded		-5,168	
51	<b>T-45 SERIES</b>	158,772	145,190	-13,582
	Airframe structural installation cost growth (OSIP 008-95)		-1,712	
	AP inlet mod kits (OSIP 003-03) early to need		-10,389	
	GGU-25 kits installation early to need (OSIP 012-19)		-1,481	
53	<b>JPATS SERIES</b>	22,956	20,958	-1,997
	Airframe emergent ECP excess to need (OSIP 008-20)		-1,997	
56	<b>COMMON AVIONICS CHANGES</b>	118,839	97,680	-21,159
	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)		-10,326	
59	<b>P-8 SERIES</b>	131,298	54,797	-76,501
	ECP 6/7 early to need (OSIP 006-18)		-76,501	
62	<b>V-22 (TILT/ROTOR ACFT) OSPREY</b>	312,835	310,512	-2,323
	Drive link/prop rotor hub spring change (OSIP 028-12) previously funded		-2,323	
63	<b>NEXT GENERATION JAMMER (NGJ)</b>	266,676	251,643	-15,033
	Other support (OSIP 002-19) excess growth		-5,750	
	Support equipment (OSIP 002-19) previously funded		-4,283	
	Training equipment (OSIP 002-19) previously funded		-4,020	
64	<b>F-35 STOVL SERIES</b>	177,054	156,712	-20,342
	Block 4 B-kits schedule delay (OSIP 012-20)		-15,268	
	A-kits cost growth (OSIP 009-21)		-5,074	
65	<b>F-35 CV SERIES</b>	138,269	118,933	-19,336
	Block 4 B-kits schedule delay (OSIP 011-20)		-16,650	
	Vehicle systems installation excess growth (OSIP 001-21)		-2,686	
66	<b>QRC</b>	98,563	88,563	-10,000
	Unjustified growth		-10,000	

P-1		Budget Request	Committee Recommended	Change from Request
72	SPARES AND REPAIR PARTS	2,339,077	2,227,743	-111,334
	MQ-25 early to need		-57,749	
	Aviation outfitting accounts spares excess growth		-171,355	
	Program increase - four F-35B engines		117,800	
73	COMMON GROUND EQUIPMENT	517,267	489,833	-27,434
	USMC fed sim ADVTE modernization previously funded		-10,187	
	USMC fed sim FV-22 CFTD modernization previously funded		-13,605	
	NASMP common simulation models upgrade previously funded		-3,642	
77	SPECIAL SUPPORT EQUIPMENT	271,774	201,774	-70,000
	Classified adjustment		-70,000	

## ADVANCED HELICOPTER TRAINING SYSTEM

The Committee notes that the Navy is replacing the outdated TH-57 helicopter training system with the Advanced Helicopter Training System and believes that the Department of the Navy must continue to rapidly field modern rotary training platforms to help ensure that the next generation of naval aviators remains skilled and proficient in conducting sustained air support operations while deployed worldwide. The Committee encourages the Secretary of the Navy to adequately resource the Advanced Helicopter Training System in future defense budget submissions.

## NAVY ADVERSARY AIRCRAFT FOR TRAINING PURPOSES

The Committee is aware of the growing requirement for near-peer representative air-to-air training using aggressor aircraft with capabilities similar to that of advanced adversaries. Although the Committee is supportive of and commends recent efforts to increase capabilities of aircraft assigned to aggressor squadrons, there are remaining concerns about the continued use of some legacy aircraft to carry out this mission in the long-term. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act 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.

## WEAPONS PROCUREMENT, NAVY

Fiscal year 2022 budget request .....	\$4,220,705,000
Committee recommendation .....	3,718,711,000
Change from budget request .....	-501,994,000

The Committee recommends an appropriation of \$3,718,711,000 for Weapons Procurement, Navy which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
WEAPONS PROCUREMENT, NAVY							
BALLISTIC MISSILES							
MODIFICATION OF MISSILES							
1	TRIDENT II MODS.....	---	1,144,446	---	1,120,241	---	-24,205
SUPPORT EQUIPMENT AND FACILITIES							
2	MISSILE INDUSTRIAL FACILITIES.....	---	7,319	---	6,319	---	-1,000
	TOTAL, BALLISTIC MISSILES.....	---	1,151,765	---	1,126,560	---	-25,205
OTHER MISSILES							
STRATEGIC MISSILES							
3	TOMAHAWK.....	60	124,513	70	138,140	+10	+13,627
TACTICAL MISSILES							
5	SIDEWINDER.....	178	86,366	178	82,211	---	-24,155
6	STANDARD MISSILE.....	125	521,814	125	410,333	---	-111,481
7	STANDARD MISSILE (AP-CV).....	---	45,357	---	45,357	---	---
8	JASSM.....	25	37,039	---	---	-25	-37,039
9	SMALL DIAMETER BOMB II.....	180	40,877	180	33,764	---	-7,113
10	RAM.....	100	92,981	100	73,015	---	-19,966
11	JOINT AIR GROUND MISSILE (JAGM).....	164	49,762	164	38,873	---	-9,829
12	HELLFIRE.....	120	7,557	120	7,557	---	---
13	AERIAL TARGETS.....	---	150,339	---	141,446	---	-8,893
14	DRONES AND DECOYS.....	16	30,321	---	---	-16	-30,321
15	OTHER MISSILE SUPPORT.....	---	3,474	---	3,474	---	---
16	LASH.....	48	161,212	48	140,246	---	-20,964
17	NAVAL STRIKE MISSILE (NSM).....	34	59,331	34	52,377	---	-6,954
MODIFICATION OF MISSILES							
18	TOMAHAWK MODS.....	---	208,233	---	185,199	---	-21,034
19	ESSM.....	108	248,619	108	130,061	---	-118,558
21	AARGM.....	54	116,345	54	109,835	---	-6,510
22	STANDARD MISSILES MODS.....	---	148,834	---	130,482	---	-18,352
SUPPORT EQUIPMENT AND FACILITIES							
23	WEAPONS INDUSTRIAL FACILITIES.....	---	1,819	---	1,819	---	---
ORDNANCE SUPPORT EQUIPMENT							
26	ORDNANCE SUPPORT EQUIPMENT.....	---	191,905	---	191,905	---	---
	TOTAL, OTHER MISSILES.....	---	2,324,639	---	1,897,096	---	-427,542

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
TORPEDOES AND RELATED EQUIPMENT						
27 TORPEDOES AND RELATED EQUIP SSRD.....	---	4,545	---	4,545	---	---
28 MK-48 TORPEDO.....	110	159,107	110	122,511	---	-36,596
29 ASW TARGETS.....	---	13,630	---	13,630	---	---
MOD OF TORPEDOES AND RELATED EQUIP						
30 MK-54 TORPEDO MODS.....	---	106,112	---	94,168	---	-11,944
31 MK-48 TORPEDO ADCAP MODS.....	---	35,680	---	27,997	---	-7,683
32 MARITIME MINES.....	---	8,587	---	8,587	---	---
SUPPORT EQUIPMENT						
33 TORPEDO SUPPORT EQUIPMENT.....	---	39,400	---	40,032	---	+2,588
34 ASW RANGE SUPPORT.....	---	3,997	---	3,997	---	---
DESTINATION TRANSPORTATION						
35 FIRST DESTINATION TRANSPORTATION.....	---	4,023	---	4,023	---	---
TOTAL, TORPEDOES AND RELATED EQUIPMENT.....	---	429,061	---	376,269	---	-52,791
OTHER WEAPONS						
36 GUNS AND GUN MOUNTS SMALL ARMS AND WEAPONS.....	---	14,909	---	10,001	---	-4,908
MODIFICATION OF GUNS AND GUN MOUNTS						
37 CIWS MODS.....	---	6,274	---	6,274	---	---
38 COAST GUARD WEAPONS.....	---	45,958	---	45,958	---	---
39 GUN MOUNT MODS.....	---	68,775	---	68,740	---	-35
40 LCS MODULE WEAPONS.....	32	2,121	32	2,121	---	---
41 AIRBORNE MINE NEUTRALIZATION SYSTEMS.....	---	14,822	---	14,822	---	---
TOTAL, OTHER WEAPONS.....	---	152,868	---	138,875	---	-13,993
42 SPARES AND REPAIR PARTS.....	---	162,362	---	156,919	---	-5,443
TOTAL, WEAPONS PROCUREMENT, NAVY.....	---	4,220,705	---	3,718,711	---	-501,994

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

P-1		Budget Request	Committee Recommended	Change from Request
1	<b>TRIDENT II MODS</b>	1,144,446	1,120,241	-24,205
	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	
2	<b>MISSILE INDUSTRIAL FACILITIES</b>	7,319	6,319	-1,000
	Prior year carryover		-1,000	
3	<b>TOMAHAWK</b>	124,513	138,140	13,627
	MK14 canisters previously funded		-3,743	
	Program increase - ten additional tomahawks		17,370	
5	<b>SIDEWINDER</b>	86,366	62,211	-24,155
	AUR Block II contract award delay		-20,146	
	CATM Block II contract award delay		-3,170	
	AUR Block II plus contract award delay		-839	
6	<b>STANDARD MISSILE</b>	521,814	410,333	-111,481
	Diminishing manufacturing sources delays		-6,500	
	Production capacity efforts early to need		-104,981	
8	<b>JASSM</b>	37,039	0	-37,039
	Early to need		-37,039	
9	<b>SMALL DIAMETER BOMB II</b>	40,877	33,764	-7,113
	Contract award savings		-7,113	
10	<b>RAM</b>	92,981	73,015	-19,966
	Contract award delay		-19,966	
11	<b>JOINT AIR GROUND MISSILE (JAGM)</b>	49,702	39,873	-9,829
	AUR unit cost growth		-9,829	
13	<b>AERIAL TARGETS</b>	150,339	141,446	-8,893
	EM441 install/mission kits previously funded		-625	
	EM203 GQM-163A contract award delay		-8,268	
14	<b>DRONES AND DECOYS</b>	30,321	0	-30,321
	Early to need		-30,321	
16	<b>LRASM</b>	161,212	140,248	-20,964
	Contract award delay		-20,964	
17	<b>NAVAL STRIKE MISSILE (NSM)</b>	59,331	52,377	-6,954
	Contract award delay		-6,954	

P-1		Budget Request	Committee Recommended	Change from Request
18	<b>TOMAHAWK MODS</b>	206,233	185,199	-21,034
	Recertification kits contract award delay		-6,944	
	MST kits contract award delay		-14,090	
19	<b>ESSM</b>	248,619	130,061	-118,558
	ESSM Block 2 contract award delay		-87,133	
	Production capacity funds unjustified request		-31,420	
21	<b>AARGM</b>	116,345	109,835	-6,510
	AARGM-ER excess ILS costs		-3,011	
	AARGM-ER excess facilitization costs		-3,499	
22	<b>STANDARD MISSILE MODS</b>	148,834	130,482	-18,352
	SM-2 Block IIIC contract award delay		-7,335	
	SM-2 Block IIIC canisters contract award delay		-2,205	
	SM-2 Block IIICZ modifications contract award delay		-1,983	
	Diminishing manufacturing resources excess to need		-6,828	
28	<b>MK-48 TORPEDO</b>	159,107	122,511	-36,596
	Guidance and control section contract award delay		-21,858	
	Afterbody/tail cone contract award delay		-8,461	
	Warhead electronics contract award delay		-3,849	
	Installation previously funded		-2,630	
30	<b>MK-54 TORPEDO MODS</b>	105,112	94,168	-11,944
	HAAWC contract award delay		-11,944	
31	<b>MK-48 TORPEDO ADCAP MODS</b>	35,680	27,987	-7,693
	CBASS kits unit cost growth		-3,563	
	CBASS installation previously funded		-4,130	
33	<b>TORPEDO SUPPORT EQUIPMENT</b>	93,400	90,832	-2,568
	Replacement warshot afterbodies contract award delay		-2,568	
36	<b>SMALL ARMS AND WEAPONS</b>	14,909	10,961	-3,948
	MK50 MOD1/CROWS II failure to comply with congressional direction		-700	
	SU-289/PVQ variable combat optical gunsight early to need		-1,108	
	Crew served weapons optics early to need		-1,340	
	40MM M320A1 launcher grenade early to need		-800	
39	<b>GUN MOUNT MODS</b>	68,775	88,740	19,965
	MK38 backfit kits previously funded		-3,635	
	MK38 upgrade kit install previously funded		-1,400	
	Program increase - operator ballistic protection for crew-served weapons		25,000	
43	<b>SPARES AND REPAIR PARTS</b>	162,382	155,919	-6,463
	Tomahawk spares excess growth		-6,259	
	RAM spares excess growth		-1,204	



# PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

Fiscal year 2022 budget request .....	\$988,018,000
Committee recommendation .....	879,388,000
Change from budget request .....	- 108,630,000

The Committee recommends an appropriation of \$879,388,000 for Procurement of Ammunition, Navy and Marine Corps which will provide the following program in fiscal year 2022:

		QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PROCUREMENT OF AMMO, NAVY & MARINE CORPS							
1	PROC AMMO, NAVY NAVY AMMUNITION GENERAL PURPOSE BOMBS	---	48,835	---	43,424	---	-5,211
2	JDM	2,971	74,140	2,971	48,526	---	-25,614
3	AIRBORNE ROCKETS, ALL TYPES	---	75,383	---	75,383	---	---
4	MACHINE GUN AMMUNITION	---	11,215	---	11,215	---	---
5	PRACTICE BOMBS	---	52,225	---	50,084	---	-2,141
6	CARTRIDGES & CART ACTUATED DEVICES	---	70,878	---	69,978	---	-898
7	ATR EXPENDABLE COUNTERMEASURES	---	61,500	---	57,069	---	-4,531
8	JAYOS	---	6,620	---	5,820	---	---
9	5 INCH/64 GUN AMMUNITION	---	26,922	---	26,922	---	-2,090
10	INTERMEDIATE CALIBER GUN AMMUNITION	---	36,038	---	31,537	---	-4,501
11	OTHER SHIP GUN AMMUNITION	---	38,070	---	34,949	---	-4,121
12	SMALL ARMS & LANDING PARTY AMMO	---	45,493	---	44,195	---	-1,298
13	PYROTECHNIC AND DEMOLITION	---	9,163	---	8,757	---	-405
16	AMMUNITION LESS THAN \$5 MILLION	---	1,576	---	---	---	-1,576
	TOTAL, PROC AMMO, NAVY	---	560,985	---	508,659	---	-52,326
PROC AMMO, MARINE CORPS							
16	MARINE CORPS AMMUNITION MORTARS	---	50,707	---	50,707	---	---
17	DIRECT SUPPORT MUNITIONS	---	120,037	---	116,033	---	-4,004
18	INFANTRY WEAPONS AMMUNITION	---	94,001	---	61,919	---	-32,082
19	COMBAT SUPPORT MUNITIONS	---	35,247	---	35,247	---	---
20	AMMO MODERNIZATION	---	16,287	---	15,144	---	-1,123
21	ARTILLERY MUNITIONS	---	155,659	---	86,544	---	-69,125
22	ITEMS LESS THAN \$5 MILLION	---	5,136	---	5,136	---	---
	TOTAL, PROC AMMO, MARINE CORPS	---	427,063	---	370,729	---	-56,334
TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS							
		---	988,048	---	879,388	---	-108,660

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

P-1		Budget Request	Committee Recommended	Change from Request
1	<b>GENERAL PURPOSE BOMBS</b> Q2898 BLU-137 NRE excess to need	48,636	43,424 -5,211	-5,211
2	<b>JDAM</b> Contract award delay	74,140	48,526 -25,614	-25,614
5	<b>PRACTICE BOMBS</b> Q1300 LGTR unit cost savings	52,225	50,084 -2,141	-2,141
6	<b>CARTRIDGES &amp; CART ACTUATED DEVICES</b> Thermal batteries previously funded MK122 parachute deploy rocket unit cost overestimation	70,876	69,978 -514 -384	-898
7	<b>AIR EXPENDABLE COUNTERMEASURES</b> IR decoys previously funded	61,600	57,069 -4,531	-4,531
9	<b>5 INCH/54 GUN AMMUNITION</b> Renovation components unjustified request	28,922	26,922 -2,000	-2,000
10	<b>INTERMEDIATE CALIBER GUN AMMUNITION</b> ALAMO contract award delay	36,038	31,537 -4,501	-4,501
11	<b>OTHER SHIP GUN AMMUNITION</b> 30MM APFSDS-T cartridge contract award delay 20MM MK244 ELC cartridge unit cost growth	39,070	34,949 -1,034 -3,087	-4,121
12	<b>SMALL ARMS &amp; LANDING PARTY AMMO</b> NSW SMCA previously funded	45,493	44,195 -1,298	-1,298
13	<b>PYROTECHNIC AND DEMOLITION</b> NSW SIM hand grenade unit cost growth	9,163	8,757 -406	-406
15	<b>AMMUNITION LESS THAN \$5 MILLION</b> Contract award delays	1,575	0 -1,575	-1,575
17	<b>DIRECT SUPPORT MUNITIONS</b> Various munitions unit cost growth	120,037	116,033 -4,004	-4,004
18	<b>INFANTRY WEAPONS AMMUNITION</b> BA54 termination BA55 termination AC55 XM1198 unit cost growth	94,001	61,918 -12,804 -17,938 -1,340	-32,082
20	<b>AMMO MODERNIZATION</b> Excess program growth	16,267	15,144 -1,123	-1,123
21	<b>ARTILLERY MUNITIONS</b> DA67 unit cost growth DA529 M785 metal parts carryover DA529 wooden pallets carryover	105,689	86,544 -2,462 -16,031 -632	-19,125

## SHIPBUILDING AND CONVERSION, NAVY

Fiscal year 2022 budget request .....	\$22,571,059,000
Committee recommendation .....	23,486,398,000
Change from budget request .....	+915,339,000

The Committee recommends an appropriation of \$23,486,398,000 for Shipbuilding and Conversion, Navy which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
SHIPBUILDING & CONVERSION, NAVY						
1	FLEET BALLISTIC MISSILE SHIPS					
		---		---	---	---
		3,003,000		3,003,000		---
2	COLUMBIA CLASS SUBMARINE (AP-CY)					
		---		---	---	---
		1,643,980		1,601,805		-42,175
3	OTHER WARSHIPS					
		---		---	---	---
		1,068,705		1,062,205		-6,500
4	CARRIER REPLACEMENT PROGRAM (CVN 81)					
		---		---	---	---
		1,299,764		1,267,719		-32,045
5	VIRGINIA CLASS SUBMARINE					
		2		2		---
		4,249,240		4,328,240		+80,000
6	VIRGINIA CLASS SUBMARINE (AP-CY)					
		---		---	---	---
		2,120,407		2,104,917		-15,490
7	CVN REFUELING OVERHAUL					
		---		---	---	---
		2,458,018		2,295,018		-163,000
8	CVN REFUELING OVERHAULS (AP-CY)					
		---		---	---	---
		86,262		86,262		---
9	DDG 1000					
		---		---	---	---
		56,597		56,597		---
10	DDG-51					
		1		2	+1	+1,318,038
		2,016,787		3,334,825		---
13	FFG-FRIGATE					
		1		1		---
		1,067,900		1,087,900		---
14	FFG-FRIGATE (AP-CY)					
		---		---	---	---
		69,100		69,100		---
	TOTAL, OTHER WARSHIPS					
		---		---		---
		14,490,780		15,663,783		+1,173,003
15	AMPHIBIOUS SHIPS					
		---		---	---	---
		60,636		60,636		---
19	LHA REPLACEMENT					
		---		---	---	---
		66,037		66,037		---
	TOTAL, AMPHIBIOUS SHIPS					
		---		---	---	---
		126,273		126,273		---
21	AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS					
		---		---	---	---
		688,184		688,184		+20,000
22	TAO FLEET OILER (AP-CY)					
		---		---	---	---
		76,012		---		-76,012
23	TAGOS SURTASS SHIPS					
		1		1		---
		434,384		434,384		---
24	TOWING, SALVAGE, AND RESCUE SHIP (ATRS)					
		2		1	-1	-97,016
		183,600		86,765		---
25	LCU 1700					
		4		4		---
		67,928		67,928		---
26	OUTFITTING					
		---		---	---	---
		655,707		614,731		-40,976
27	SHIP TO SHORE CONNECTOR					
		2		2		---
		156,730		135,252		-21,478
28	SERVICE CRAFT					
		---		---	---	---
		67,856		67,856		---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED	CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY
29	LCAC SLEP.....	2	32,712	2	32,712	---
30	AUXILIARY VESSELS.....	5	299,900	5	299,900	---
31	COMPLETION OF PY SHIPBUILDING PROGRAMS.....	---	680,795	---	680,795	---
	TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM.....	---	3,304,026	---	3,088,537	-215,489
	TOTAL, SHIPBUILDING & CONVERSION, NAVY.....	---	22,671,059	---	23,486,388	+915,329

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

P-1		Budget Request	Committee Recommended	Change from Request
2	COLUMBIA CLASS SUBMARINE (AP-CY) SSN 829 missile tube continuous production early to need SSN 829 ordnance SWS shipboard systems LLTM early to need SSN 831 shipyard manufactured items continuous production early to need SSN 831 ordnance SWS shipboard systems continuous production early to need	1,643,980	1,601,805 -29,470 -11,355 -930 -420	-42,175
3	CARRIER REPLACEMENT PROGRAM (CVN 80) Basic construction growth	1,068,705	1,062,205 -6,500	-6,500
4	CARRIER REPLACEMENT PROGRAM (CVN-81) Automatic carrier landing system early to need Air traffic control system early to need	1,299,764	1,287,719 -7,872 -4,173	-12,045
5	VIRGINIA CLASS SUBMARINE Program increase - submarine supplier development	4,249,240	4,329,240 80,000	80,000
6	VIRGINIA CLASS SUBMARINE (AP-CY) Long-lead time CFE for two-year AP early to need	2,120,407	2,104,917 -15,490	-15,490
7	CVN REFUELING OVERHAULS Excess growth	2,456,018	2,255,018 -191,000	-191,000
10	DDG-51 Plans excess costs Change orders excess costs Electronics excess costs Ordnance excess costs Other costs excess Program increase - one additional DDG-51	2,016,787	3,334,825 -47,352 -11,651 -60,446 -25,190 -37,323 1,500,000	1,318,038
21	TAO FLEET OILER Program increase - affordability initiatives	688,184	688,184 20,000	20,000
22	TAO FLEET OILER (AP-CY) Unjustified request	76,012	0 -76,012	-76,012
24	TOWING, SALVAGE, AND RESCUE SHIP (ATS) One ship early to need	183,800	86,785 -97,015	-97,015
26	OUTFITTING Outfitting early to need Post-delivery early to need	655,707	614,731 -32,781 -8,195	-40,976
27	SHIP TO SHORE CONNECTOR Excess costs	156,736	135,252 -21,486	-21,486

## DDG-51 FLIGHT III DESTROYER

The Committee is dismayed by the Navy's decision to remove one DDG-51 Flight III Destroyer from the planned fiscal year 2022 budget request. For the second consecutive fiscal year, the Navy has chosen to remove a major ship procurement from the budget request rather than make difficult funding decisions in a fiscally constrained environment. This represents a troubling trend of underfunding ship acquisition programs and then requesting the removed ship as the highest priority on the unfunded priority list. Furthermore, removing the ship from the budget request breaks the program's multi-year procurement contract, which adversely impacts the already fragile domestic shipbuilding industrial base. Therefore, the Committee recommendation reduces multiple Navy programs to include an additional \$1,500,000,000 for a second DDG-51 Destroyer.

Further, the Committee notes that the current multi-year procurement contract for the DDG-51 Flight III destroyer ends in fiscal year 2022 and that the Navy has already delayed the detail design and construction schedule of the planned follow-on program until no earlier than fiscal year 2026. The Committee believes that a follow-on multi-year procurement contract beginning in fiscal year 2023 may be a prudent plan to ensure a smooth shipbuilding manufacturing and design industrial base transition from the DDG-51 to the follow-on large surface combatant.

## ICEBREAKERS

The Committee understands that the Coast Guard is expanding its fleet of polar icebreakers but is disappointed that the Navy has not also considered purchasing either new or used icebreakers. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act which details the Navy's plan to address this capability requirement in fiscal year 2022 and the future years defense program.

CVN-81 ELECTROMAGNETIC AIRCRAFT LAUNCHING SYSTEM AND  
ADVANCED ARRESTING GEAR ACQUISITION STRATEGY

The Committee is concerned by the continued delays in the Navy's approval of the acquisition strategy for the Electromagnetic Aircraft Launching System and Advanced Arresting Gear for CVN-81. The National Defense Authorization Act for Fiscal Year 2018 authorized a dual-hull buy which allowed for equipment and shipsets to be procured earlier in the acquisition of CVN-80 and CVN-81, with a goal of realizing significant savings. However, the three-year delay in approving an acquisition strategy and contracting for these main mission components of the carrier is causing a disruption to the production and manufacturing processes of these essential components, impacting the construction and increasing the cost growth of CVN-81. The Committee encourages the Secretary of the Navy to prioritize consideration and approval of an acquisition strategy to procure these components.



## RETIREMENT OF OHIO-CLASS GUIDED MISSILE SUBMARINES

The Committee notes the delicate balance of timing between the retirement of OHIO-class guided missile submarines with the delivery and fielding of the new COLUMBIA-class submarines and wants to ensure that undersea capabilities will not be adversely impacted. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act which identifies the timeline of OHIO-class guided missile submarine retirements and how their mission capabilities will be replaced, including how the COLUMBIA-class submarines will integrate into existing military installations.

## OTHER PROCUREMENT, NAVY

Fiscal year 2022 budget request .....	\$10,875,912,000
Committee recommendation .....	10,451,162,000
Change from budget request .....	-424,750,000

The Committee recommends an appropriation of \$10,451,162,000 for Other Procurement, Navy which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED	CHANGE FROM REQUEST
		QTY	AMOUNT	QTY	AMOUNT
					QTY
					AMOUNT
	OTHER PROCUREMENT, NAVY				
	SHIPS SUPPORT EQUIPMENT				
1	SHIP PROPULSION EQUIPMENT	---	41,414	---	41,414
	SURFACE POWER EQUIPMENT	---		---	
2	GENERATORS	---	83,748	---	78,054
	SURFACE COMBATANT HMSE	---		---	-5,892
	NAVIGATION EQUIPMENT	---	72,300	---	72,300
3	OTHER NAVIGATION EQUIPMENT	---		---	
	PERISCOPES	---		---	
4	SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT	---	234,932	---	209,792
	PROGRAM	---		---	-25,140
	OTHER SHIPBOARD EQUIPMENT	---		---	
5	DDG MOD	---	553,136	---	535,667
		---		---	-17,469
6	FIREFIGHTING EQUIPMENT	---	15,040	---	13,870
		---		---	-1,170
7	COMMAND AND CONTROL SWITCHBOARD	---	2,194	---	2,194
		---		---	
8	LHA/LHD MIDLIFE	---	133,627	---	110,993
		---		---	-13,634
9	LCC 10/20 EXTENDED SERVICE LIFE PROGRAM	---	4,387	---	4,387
		---		---	
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	---	5,640	---	5,640
		---		---	
14	SUBMARINE BATTERIES	---	21,834	---	21,834
		---		---	
15	LPD CLASS SUPPORT EQUIPMENT	---	34,282	---	22,093
		---		---	-12,189
16	DDG-1000 SUPPORT EQUIPMENT	---	126,107	---	111,761
		---		---	-14,346
17	STRATEGIC PLATFORM SUPPORT EQUIP	---	12,256	---	12,256
		---		---	
18	DSSP EQUIPMENT	---	10,692	---	3,282
		---		---	-7,410
19	CRUISER MODERNIZATION	---	156,851	---	136,926
		---		---	-19,925
20	LCAC	---	21,314	---	21,314
		---		---	
21	UNDERWATER EOD PROGRAMS	---	24,146	---	24,146
		---		---	
22	ITEMS LESS THAN \$5 MILLION	---	84,789	---	83,545
		---		---	-1,244
23	CHEMICAL WARFARE DETECTORS	---	2,007	---	2,429
		---		---	-568
25	SHIP MAINTENANCE, REPAIR AND MODERNIZATION	---	1,307,851	---	1,267,729
		---		---	-99,922
	REACTOR PLANT EQUIPMENT	---		---	
26	REACTOR POWER UNITS	---	3,270	---	3,270
		---		---	
27	REACTOR COMPONENTS	---	438,729	---	438,729
		---		---	

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
28 OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT.....	---	10,772	---	10,772	---	---
29 SMALL BOATS STANDARD BOATS.....	---	58,770	---	57,718	---	-1,052
30 PRODUCTION FACILITIES EQUIPMENT OPERATING FORCES IPE.....	---	168,822	---	160,822	---	-8,000
31 OTHER SHIP SUPPORT LCS COMMON MISSION MODULES EQUIPMENT.....	---	74,231	---	63,501	---	-10,730
32 LCS MCM MISSION MODULES.....	---	40,630	---	30,119	---	-10,511
33 LCS ASW MISSION MODULES.....	---	1,505	---	1,505	---	---
34 LCS SUB MISSION MODULES.....	---	3,395	---	3,395	---	---
35 LCS IN-SERVICE MODERNIZATION.....	---	122,591	---	132,591	---	+10,000
36 LOGISTICS SUPPORT SMALL & MEDIUM UUV.....	---	32,534	---	32,534	---	---
TOTAL SHIPS SUPPORT EQUIPMENT.....	---	4,067,856	---	3,800,854	---	-267,002
COMMUNICATIONS AND ELECTRONICS EQUIPMENT						
38 SHIP SONARS SPQ-9B RADAR.....	---	15,027	---	14,209	---	-1,718
39 AN/SQQ-80 SURF ASW COMBAT SYSTEM.....	---	131,829	---	126,871	---	-4,958
40 SSN ACOUSTICS EQUIPMENT.....	---	379,850	---	360,890	---	-18,952
41 UNDERSEA WARFARE SUPPORT EQUIPMENT.....	---	13,985	---	13,985	---	---
42 ASW ELECTRONIC EQUIPMENT SUBMARINE ACOUSTIC WARFARE SYSTEM.....	---	24,578	---	24,578	---	---
43 SSTO.....	---	11,010	---	11,010	---	---
44 FIXED SURVEILLANCE SYSTEM.....	---	363,651	---	363,651	---	---
45 SURTASS.....	---	67,500	---	67,500	---	---
46 ELECTRONIC WARFARE EQUIPMENT AN/SIQ-32.....	---	370,559	---	312,554	---	-58,005
47 RECONNAISSANCE EQUIPMENT SHIPBOARD IW EXPLOIT.....	---	261,735	---	261,735	---	---
48 AUTOMATED IDENTIFICATION SYSTEM (AIS).....	---	3,777	---	3,777	---	---
49 OTHER SHIP ELECTRONIC EQUIPMENT COOPERATIVE ENGAGEMENT CAPABILITY.....	---	24,841	---	24,841	---	---
50 NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS).....	---	14,439	---	14,439	---	---
51 ATDLs.....	---	101,595	---	91,711	---	-9,884

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
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	---	---
58. AVIATION ELECTRONIC EQUIPMENT ASHORE ATC EQUIPMENT.....	---	83,484	---	82,510	---	-954
59. AFLOAT ATC EQUIPMENT.....	---	67,055	---	65,302	---	-1,753
60. ID SYSTEMS.....	---	46,910	---	20,870	---	-20,042
61. JOINT PRECISION APPROACH AND LANDING SYSTEM.....	---	35,388	---	35,386	---	---
62. NAVAL MISSION PLANNING SYSTEMS.....	---	17,951	---	16,777	---	-1,174
63. OTHER SHORE ELECTRONIC EQUIPMENT MARITIME INTEGRATED BROADCAST SYSTEM.....	---	2,350	---	1,700	---	-600
64. TACTICAL/MOBILE C4I SYSTEMS.....	---	18,919	---	18,919	---	---
65. DCCS-N.....	---	16,691	---	16,691	---	---
66. CANES.....	---	412,002	---	412,002	---	---
67. RADIAC.....	---	9,074	---	7,828	---	-1,246
68. CANES-INTELL.....	---	51,593	---	51,593	---	---
69. CPETE.....	---	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.....	---	158,042	---	87,475	---	-68,567
74. SHIPBOARD COMMUNICATIONS SHIPBOARD TACTICAL COMMUNICATIONS.....	---	43,212	---	37,714	---	-5,498
75. SHIP COMMUNICATIONS AUTOMATION.....	---	90,724	---	90,073	---	-651
76. COMMUNICATIONS ITEMS UNDER \$GM.....	---	44,447	---	44,447	---	---
77. SUBMARINE COMMUNICATIONS SUBMARINE BROADCAST SUPPORT.....	---	47,579	---	35,978	---	-11,600
78. SUBMARINE COMMUNICATION EQUIPMENT.....	---	64,642	---	64,642	---	---
79. SATELLITE COMMUNICATIONS SATELLITE COMMUNICATIONS SYSTEMS.....	---	38,636	---	38,636	---	---
80. NAVY MULTIBAND TERMINAL (NMT).....	---	34,723	---	34,723	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY AMOUNT
81 SHORE COMMUNICATIONS JCS COMMUNICATIONS EQUIPMENT.....	---	2,651	---	2,651	---
82 CRYPTOGRAPHIC EQUIPMENT INFO SYSTEMS SECURITY PROGRAM (ISSP).....	---	146,879	---	145,311	-1,568
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	---	61,464	-1,750
TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	---	3,405,701	---	3,198,781	-206,920
94 AVIATION SUPPORT EQUIPMENT SONOBUOYS - ALL TYPES.....	---	249,121	---	222,528	-26,593
95 AIRCRAFT SUPPORT EQUIPMENT MINDTAUR.....	---	4,963	---	4,963	---
96 WEAPONS RANGE SUPPORT EQUIPMENT.....	---	98,898	---	87,748	-11,150
97 AIRCRAFT SUPPORT EQUIPMENT.....	---	175,647	---	175,439	-208
98 ADVANCED ARRESTING GEAR (AAG).....	---	22,265	---	22,265	---
99 METEOROLOGICAL EQUIPMENT.....	---	13,687	---	13,687	---
100 LEGACY AIRBORNE MINE COUNTERMEASURES.....	---	4,448	---	4,448	---
101 COMMON CONTROL SYSTEM.....	---	1,470	---	1,470	---
102 AVIATION SUPPORT EQUIPMENT.....	---	70,865	---	62,496	-8,369
103 UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL.....	---	66,564	---	78,026	+8,556
TOTAL, AVIATION SUPPORT EQUIPMENT.....	---	730,746	---	673,065	-57,681
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	---	225,478	-12,511
107 TOMAHAWK SUPPORT EQUIPMENT.....	---	58,728	---	57,147	-1,579
108 FBW SUPPORT EQUIPMENT STRATEGIC MISSILE SYSTEMS EQUIP.....	---	281,252	---	278,430	-2,822
109 ASW SUPPORT EQUIPMENT SSN COMBAT CONTROL SYSTEMS.....	---	143,289	---	128,117	-15,172

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
110 ASW SUPPORT EQUIPMENT.....	---	30,506	---	29,852	---	-3,743
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.....	---	78,994	---	73,637	---	-3,357
114 SUBMARINE TRAINING DEVICE MOOS.....	---	75,913	---	75,813	---	---
115 SURFACE TRAINING EQUIPMENT.....	---	127,614	---	135,814	---	+8,000
TOTAL, ORDNANCE SUPPORT EQUIPMENT.....	---	1,078,684	---	1,045,493	---	-33,191
CIVIL ENGINEERING SUPPORT EQUIPMENT						
116 PASSENGER CARRYING VEHICLES.....	---	4,140	---	4,140	---	---
117 GENERAL PURPOSE TRUCKS.....	---	2,605	---	2,805	---	---
118 CONSTRUCTION & MAINTENANCE EQUIP.....	---	48,403	---	48,267	---	-2,148
119 FIRE FIGHTING EQUIPMENT.....	---	15,084	---	15,084	---	---
120 TACTICAL VEHICLES.....	---	27,400	---	28,052	---	+1,348
121 POLLUTION CONTROL EQUIPMENT.....	---	2,607	---	2,607	---	---
122 ITEMS UNDER \$5 MILLION.....	---	51,983	---	50,619	---	-1,344
123 PHYSICAL SECURITY VEHICLES.....	---	1,165	---	1,165	---	---
TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT.....	---	163,587	---	149,729	---	-4,538
SUPPLY SUPPORT EQUIPMENT						
124 SUPPLY EQUIPMENT.....	---	24,698	---	24,698	---	---
125 FIRST DESTINATION TRANSPORTATION.....	---	5,385	---	6,385	---	---
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.....	---	3,485	---	3,202	---	-283
128 TRAINING AND EDUCATION EQUIPMENT.....	---	80,114	---	58,823	---	-1,291
COMMAND SUPPORT EQUIPMENT						
129 COMMAND SUPPORT EQUIPMENT.....	---	31,007	---	31,007	---	---
130 MEDICAL SUPPORT EQUIPMENT.....	---	7,346	---	14,346	---	+7,000
132 NAVAL HIP SUPPORT EQUIPMENT.....	---	2,887	---	2,887	---	---
133 OPERATING FORCES SUPPORT EQUIPMENT.....	---	12,815	---	12,815	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
134 C4ISR EQUIPMENT.....	---	6,324	---	8,324	---	---
135 ENVIRONMENTAL SUPPORT EQUIPMENT.....	---	25,088	---	23,415	---	-1,683
136 PHYSICAL SECURITY EQUIPMENT.....	---	110,647	---	107,471	---	-3,178
137 ENTERPRISE INFORMATION TECHNOLOGY.....	---	31,709	---	31,709	---	---
141 NEXT GENERATION ENTERPRISE SERVICE.....	---	41	---	150,041	---	+150,000
142 CYBERSPACE ACTIVITIES.....	---	12,859	---	12,859	---	---
TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT..	---	304,312	---	454,899	---	+150,687
143 SPARES AND REPAIR PARTS.....	---	424,405	---	420,700	---	-3,705
CLASSIFIED PROGRAMS.....	---	19,808	---	19,808	---	---
TOTAL, OTHER PROCUREMENT, NAVY.....	---	10,875,912	---	10,451,162	---	-424,750

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
<b>2 SURFACE COMBATANT HM&amp;E</b>	<b>83,746</b>	<b>78,054</b>	<b>-5,692</b>
DDG-51 ship control systems unjustified growth		-3,654	
HM&E condition system unjustified growth		-9,028	
Program increase - DDG-51 advanced degaussing mine protection system		7,000	
<b>4 SUB PERISCOPE, IMAGING AND SUPT EQUIP PROG</b>	<b>234,932</b>	<b>209,792</b>	<b>-25,140</b>
AN/BLQ-10B technical insertion kits for T122 688/21 class unjustified request		-25,140	
<b>5 DDG MOD</b>	<b>583,136</b>	<b>535,667</b>	<b>-47,469</b>
DDG mod installation unjustified growth		-15,008	
GEOMS equipment flight I/A installation excess growth		-4,821	
MCS/DCS equipment flight I/A 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	
<b>6 FIREFIGHTING EQUIPMENT</b>	<b>15,040</b>	<b>13,970</b>	<b>-1,070</b>
EEBD replacement and PES previously funded		-1,070	
<b>8 LHA/LHD MIDLIFE</b>	<b>133,627</b>	<b>119,993</b>	<b>-13,634</b>
Hydra installation excess to need		-881	
Ballast and DC console contract award delay		-1,734	
Amplified announcing system contract award delay		-1,978	
ICT upgrade contract award delay		-1,840	
IVN upgrade contract award delay		-7,201	
<b>15 LPD CLASS SUPPORT EQUIPMENT</b>	<b>34,292</b>	<b>22,093</b>	<b>-12,199</b>
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		-7,385	
<b>16 DDG 1000 CLASS SUPPORT EQUIPMENT</b>	<b>125,107</b>	<b>111,761</b>	<b>-14,346</b>
Diminishing manufacturing sources and material shortages unjustified growth		-3,946	
TSCE modernization software integration early to need		-10,500	
<b>18 DSSP EQUIPMENT</b>	<b>10,682</b>	<b>3,282</b>	<b>-7,400</b>
SRDRS shallow water transfer skirt concurrency		-7,400	
<b>19 CG MODERNIZATION</b>	<b>158,951</b>	<b>138,926</b>	<b>-18,025</b>
Pror year carryover for CG66 and CG68		-18,025	



P-1		Budget Request	Committee Recommended	Change from Request
22	ITEMS LESS THAN \$5 MILLION	84,789	83,545	-1,244
	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	-568
	Chemical warfare embed upgrade kits excess installation costs		-568	
25	SHIP MAINTENANCE, REPAIR, AND MODERNIZATION	1,307,651	1,207,729	-99,922
	Early to need		-63,099	
	Excess to need		-36,823	
28	STANDARD BOATS	58,770	57,718	-1,052
	40PB unit cost growth		-1,052	
30	OPERATING FORCES IPE	168,822	160,822	-8,000
	CNC shaft fabre contract award delay		-18,000	
	Program increase - interim SSN maintenance support complexes		10,000	
31	LCS COMMON MISSION MODULES EQUIPMENT	74,231	63,501	-10,730
	Mission bay training modules early to need		-10,730	
32	LCS MCM MISSION MODULES	40,630	30,119	-10,511
	AN/SLW-2 unmanned surface vehicle contract award delay		-10,511	
35	LCS IN-SERVICE MODERNIZATION	122,591	132,591	10,000
	Program increase - condition-based maintenance for combat and communications systems		10,000	
38	SPQ-9B RADAR	15,927	14,209	-1,718
	AN/SPQ-9B radar equipment previously funded		-1,718	
39	AN/SQQ-89 SURF ASW COMBAT SYSTEM	131,829	126,871	-4,958
	Technology insertion/refresh kits contract award delay		-4,958	
40	SSN ACOUSTIC EQUIPMENT	379,850	360,898	-18,952
	Virginia class technical insertion kits previously funded		-18,952	
46	AN/SLQ-32	370,559	312,554	-58,005
	Block 3 kit early to need		-56,415	
	Block 3 installation excess to need		-1,590	
51	ATDLS	101,595	91,711	-9,884
	ATDLS kits previously funded		-8,385	
	ATDLS excess installation costs		-3,499	
58	ASHORE ATC EQUIPMENT	83,484	82,510	-954
	AMTAC support unjustified request		-954	
59	AFLOAT ATC EQUIPMENT	87,055	65,302	-1,753
	AN/SPN-50 unit cost growth		-1,753	

P-1	Budget Request	Committee Recommended	Change from Request
60 ID SYSTEMS	46,818	26,876	-20,042
Mode S digital interrogator excess support costs		-2,684	
AN/UPX-46 processor system early to need		-17,358	
62 NAVAL MISSION PLANNING SYSTEMS	17,951	16,777	-1,174
Mission planning seat previously funded		-1,174	
63 MARITIME INTEGRATED BROADCAST SYSTEM	2,360	1,760	-600
Contract award delay		-600	
67 RADIAC	9,074	7,828	-1,246
APD ship contract award delay		-1,246	
73 ITEMS LESS THAN \$5 MILLION	156,042	87,475	-68,567
Historical underexecution		-11,939	
Dual band radar unjustified growth		-16,318	
Next generation surface search radar contract award delay		-40,310	
74 SHIPBOARD TACTICAL COMMUNICATIONS	43,212	37,714	-5,498
Historical underexecution		-5,498	
75 SHIP COMMUNICATIONS AUTOMATION	90,724	90,073	-651
Tactical messaging installation cost growth		-651	
77 SUBMARINE BROADCAST SUPPORT	47,579	35,979	-11,600
Early to need		-11,600	
82 INFO SYSTEMS SECURITY PROGRAM (ISSP)	146,879	145,311	-1,568
NCSSA early to need		-1,568	
92 COAST GUARD EQUIPMENT	63,214	61,464	-1,750
ARC-210 contract award delay		-1,510	
OE-57D contract award delay		-240	
94 SONOBUOYS - ALL TYPES	249,121	222,525	-26,596
AN/SSQ-125 (multi-static coherent source) previously funded		-26,596	
AN/SSQ-125 - transfer to procure DICASS sonobuoys		-14,624	
DICASS sonobuoys - transfer from AN/SSQ-125		14,624	
96 WEAPONS RANGE SUPPORT EQUIPMENT	98,898	87,748	-11,150
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	-3,208
AN/SRQ-4 installations cost growth		-3,208	
102 AVIATION SUPPORT EQUIPMENT	70,665	62,496	-8,169
ASIP-SY126 previously funded		-2,705	
LEP-SY80 contract award delay		-2,876	
Aviation maintenance advancement solutions contract award delay		-2,587	

P-1	Budget Request	Committee Recommended	Change from Request
103 UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CN7	86,584	78,026	-8,558
Ship change document previously funded		-3,163	
Product support and assembly unjustified growth		-5,395	
106 SHIP MISSILE SUPPORT EQUIPMENT	237,987	225,476	-12,511
I-Stalker install previously funded		-1,219	
SSDS production support unjustified growth		-4,920	
Depot special tooling/test equipment previously funded		-658	
MK57 UCEU hardware procurement contract award delay		-4,200	
SSDS COTS conversion kits installation excess to need		-1,518	
107 TOMAHAWK SUPPORT EQUIPMENT	88,726	87,147	-1,579
TMPC ILS previously funded		-1,579	
108 STRATEGIC MISSILE SYSTEMS EQUIPMENT	281,259	276,430	-4,829
Flight test instrumentation refresh previously funded		-4,829	
109 SSN COMBAT CONTROL SYSTEMS	143,289	128,117	-15,172
Combat system tech refresh/legacy integration unjustified growth		-8,593	
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	28,852	-3,743
Fast attack craft target previously funded		-738	
High speed maneuverable surface target contract award delay		-3,005	
113 ANTI-SHIP MISSILE DECOY SYSTEM	76,994	73,637	-3,357
Rocket motor assembly previously funded		-3,357	
115 SURFACE TRAINING EQUIPMENT	127,814	135,814	8,000
BFTT ship sets poor justification material		-2,000	
Program increase - littoral combat ship mission bay trainer		10,000	
118 CONSTRUCTION & MAINTENANCE EQUIPMENT	48,403	46,257	-2,146
Acquisition support previously funded		-2,146	
120 TACTICAL VEHICLES	27,400	26,052	-1,348
JLTV unit cost discrepancy		-1,348	
122 ITEMS LESS THAN \$5 MILLION	51,963	50,619	-1,344
Expeditionary facilities unit cost growth		-644	
Diesel generators unit cost growth		-700	
127 TRAINING SUPPORT EQUIPMENT	3,465	3,202	-263
BST-21 training management system previously funded		-263	
128 TRAINING AND EDUCATION EQUIPMENT	60,114	58,823	-1,291
West coast network consolidation unjustified request		-1,291	
130 MEDICAL SUPPORT EQUIPMENT	7,346	14,346	7,000
Program increase - expeditionary medical facilities		7,000	

P-1	Budget Request	Committee Recommended	Change from Request
135 ENVIRONMENTAL SUPPORT EQUIPMENT	25,038	23,415	-1,623
Acoustic positioning system contract award delay		-560	
OPTSEO timing, transfer, EOP delivery unit cost growth		-1,123	
136 PHYSICAL SECURITY EQUIPMENT	110,647	107,471	-3,176
Naval non-lethal effects failure to comply with congressional direction		-1,588	
C4I previously funded		-1,588	
141 NEXT GENERATION ENTERPRISE SERVICE	41	150,041	150,000
Transfer from RDTE,N line 255		175,000	
Transformation unjustified request		-25,000	
143 SPARES AND REPAIR PARTS	424,405	420,700	-3,705
UMCS - UCA mission control stations spares early to need		-3,705	

## PRIVATE CONTRACTED SHIP MAINTENANCE

The Committee directs the Secretary of the Navy to continue to provide the quarterly reports regarding private contracted ship maintenance as directed in House Report 116-453.

## CENTRIFUGE PURIFIERS

The Committee is concerned by the dependence on one manufacturer for centrifuge purifiers in the surface combatant program, despite the use of multiple suppliers for this same equipment in non-surface combatant ships. Dependence on a single manufacturer for critical equipment introduces risk, potential cost growth, technology obsolescence, and potential delays for ship construction and maintenance. The Committee recommendation includes \$1,000,000 for the Navy to complete a final review and approval for additional centrifuge purifier providers for surface combatant ships. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act on the status of final review and approval of additional suppliers of centrifuge purifiers for surface combatants.

## PROCUREMENT, MARINE CORPS

Fiscal year 2022 budget request .....	\$3,043,091,000
Committee recommendation .....	2,835,365,000
Change from budget request .....	-207,726,000

The Committee recommends an appropriation of \$2,835,365,000 for Procurement, Marine Corps which will provide the following program in fiscal year 2022:

		REQUEST		RECOMMENDED		CHANGE FROM REQUEST
		QTY	AMOUNT	QTY	AMOUNT	QTY
PROCUREMENT, MARINE CORPS						
WEAPONS AND COMBAT VEHICLES						
TRACKED COMBAT VEHICLES						
1	AAM7A1 PIP	---	36,836	---	36,836	---
2	AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES	92	532,355	92	505,509	-26,846
3	LAV PIP	---	23,476	---	23,476	---
ARTILLERY AND OTHER WEAPONS						
4	155MM LIGHTWEIGHT TOWED HOWITZER	---	32	---	32	---
5	ARTILLERY WEAPONS SYSTEM	---	67,546	---	67,546	---
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION	---	35,402	---	30,693	-4,709
OTHER SUPPORT						
TOTAL, WEAPONS AND COMBAT VEHICLES		---	695,649	---	654,094	-41,555
GUIDED MISSILES AND EQUIPMENT						
GUIDED MISSILES						
8	GROUND BASED AIR DEFENSE	---	9,349	---	9,349	---
9	ANTI-ARMOR MISSILE - JAVELIN	98	937	98	937	---
10	FAMILY OF ANTI-ARMOR WEAPON SYSTEMS	---	20,481	---	20,481	---
11	ANTI-ARMOR MISSILE - TOW	---	14,359	---	11,603	-2,756
12	GUIDED MLRS ROCKET (GMLRS)	952	96,299	952	99,239	---
TOTAL, GUIDED MISSILES AND EQUIPMENT		---	143,425	---	140,669	-2,756
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	---	39,554	---
15	MODIFICATION KITS	---	167	---	167	---
OTHER SUPPORT (TEL)						
COMMAND AND CONTROL						
16	ITEMS UNDER \$5 MILLION (COMM & ELEC)	---	64,679	---	64,405	-274
17	AIR OPERATIONS C2 SYSTEMS	---	1,291	---	1,291	---
RADAR + EQUIPMENT (NON-TEL)						
18	GROUND/AIR TASK ORIENTED RADAR	8	297,369	8	286,769	-10,600
INTELL/COMM EQUIPMENT (NON-TEL)						
19	GCSS-MC	---	604	---	604	---
20	FIRE SUPPORT SYSTEM	---	39,610	---	33,608	-6,002
21	INTELLIGENCE SUPPORT EQUIPMENT	---	67,309	---	53,870	-13,439

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED	CHANGE FROM REQUEST		
		QTY	AMOUNT	QTY	AMOUNT		
24	UNMANNED AIR SYSTEMS (INTEL)	---	24,299	---	16,919	---	-7,380
25	DCGS-MC	---	26,839	---	25,981	---	-2,872
26	UAS PAYLOADS	---	3,730	---	3,730	---	---
	OTHER SUPPORT (NON-TEL)						
29	NEXT GENERATION ENTERPRISE NETWORK	---	97,060	---	89,239	---	-7,821
30	COMMON COMPUTER RESOURCES	---	83,696	---	57,417	---	-26,169
31	COMMAND POST SYSTEMS	---	53,798	---	39,413	---	-14,295
32	RADIO SYSTEMS	---	468,578	---	417,235	---	-51,443
33	COMM SWITCHING & CONTROL SYSTEMS	---	49,800	---	40,988	---	-8,812
34	COMM & ELEC INFRASTRUCTURE SUPPORT	---	110,839	---	100,835	---	-10,000
35	CYBERSPACE ACTIVITIES	---	25,377	---	25,377	---	---
	CLASSIFIED PROGRAMS	---	4,034	---	4,034	---	---
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT	---	1,472,790	---	1,313,863	---	-158,927
	SUPPORT VEHICLES						
	ADMINISTRATIVE VEHICLES						
38	COMMERCIAL CARGO VEHICLES	---	17,848	---	17,848	---	---
	TACTICAL VEHICLES						
39	MOTOR TRANSPORT MODIFICATIONS	---	23,363	---	19,086	---	-4,277
40	JOINT LIGHT TACTICAL VEHICLE	613	322,013	613	308,224	---	-13,789
42	TRAILERS	---	9,870	---	9,870	---	---
	TOTAL, SUPPORT VEHICLES	---	373,100	---	355,034	---	-18,066
	ENGINEER AND OTHER EQUIPMENT						
	ENGINEER AND OTHER EQUIPMENT						
44	TACTICAL FUEL SYSTEMS	---	2,181	---	2,181	---	---
45	POWER EQUIPMENT ASSORTED	---	28,825	---	18,955	---	-7,670
46	AMPHIBIOUS SUPPORT EQUIPMENT	---	17,119	---	12,319	---	-4,800
47	EOD SYSTEMS	---	94,472	---	94,472	---	---
	MATERIALS HANDLING EQUIPMENT						
48	PHYSICAL SECURITY EQUIPMENT	---	84,513	---	109,813	---	+21,300
	GENERAL PROPERTY						
49	FIELD MEDICAL EQUIPMENT	---	8,105	---	8,105	---	---
50	TRAINING DEVICES	---	37,814	---	34,241	---	-3,573
51	FAMILY OF CONSTRUCTION EQUIPMENT	---	34,858	---	32,979	---	-1,879
52	ULTRA-LIGHT TACTICAL VEHICLE	---	15,439	---	15,439	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
53 OTHER SUPPORT ITEMS LESS THAN \$5 MILLION	---	4,402	---	4,402	---	---
TOTAL, ENGINEER AND OTHER EQUIPMENT	---	325,308	---	328,898	---	43,578
54 SPARES AND REPAIR PARTS	---	32,818	---	32,819	---	---
TOTAL, PROCUREMENT, MARINE CORPS	---	3,043,091	---	2,835,365	---	-207,726



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

P-1		Budget	Committee	Change from
		Request	Recommended	Request
2	AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES GFE - communications suites excess growth GFE - remote weapons systems excess growth Engineering change orders excess growth System engineering program management excess growth Vehicle modifications previously funded	532,355	505,509 -1,353 -5,259 -8,834 -7,235 -4,165	-26,846
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION Principal and item re-procurement unjustified request RHGPK production units failure to comply with congressional direction RHGPK accessories excess growth	35,402	30,693 -1,898 -1,086 -1,725	-4,709
11	ANTI-ARMOR MISSILE-TOW Missile unit cost growth	14,359	11,603 -2,756	-2,756
16	ITEMS UNDER \$5 MILLION (COMM & ELEC) Combat camera systems previously funded	64,879	64,405 -474	-474
19	GROUND/AIR TASK ORIENTED RADAR (G/ATOR) Support costs prior year carryover	297,369	286,769 -10,600	-10,600
21	FIRE SUPPORT SYSTEM Mobile shelter modernization previously funded	39,810	33,808 -6,002	-6,002
22	INTELLIGENCE SUPPORT EQUIPMENT Ground electronic attack system - enhanced EW unjustified request TSCS increment 3 unjustified request	67,309	53,870 -8,612 -4,827	-13,439
24	UNMANNED AIR SYSTEMS (INTEL) Long range/long endurance unjustified request	24,299	16,918 -7,380	-7,380
25	DCGS-MC Common intel workstations excess to need	28,633	25,961 -2,672	-2,672
29	NEXT GENERATION ENTERPRISE NETWORK (NGEN) Network equipment tech refresh excess growth EIM excess growth	97,060	89,239 -3,636 -4,185	-7,821
30	COMMON COMPUTER RESOURCES Wargaming hardware early to need Training and education headquarters support unjustified request	83,608	57,417 -23,695 -2,291	-26,189
31	COMMAND POST SYSTEMS NOTM system refresh/equipment upgrades early to need	53,708	39,413 -14,295	-14,295

P-1		Budget Request	Committee Recommended	Change from Request
32	<b>RADIO SYSTEMS</b>	458,678	417,235	-51,443
	REPNT unjustified request		-15,000	
	Ancillary and accessory components unjustified growth		-20,093	
	TCM ground radios sparing previously funded		-10,000	
	Line of sight optical capability previously funded		-6,350	
33	<b>COMM SWITCHING &amp; CONTROL SYSTEMS</b>	49,600	40,988	-8,612
	ECP expeditionary form factor excess growth		-8,612	
34	<b>COMM &amp; ELEC INFRASTRUCTURE SUPPORT</b>	110,835	100,835	-10,000
	Unified capabilities and dense wave division multiplexing excess growth		-10,000	
39	<b>MOTOR TRANSPORT MODIFICATIONS</b>	23,363	19,086	-4,277
	Heavy trailer ECP excess growth		-4,277	
40	<b>JOINT LIGHT TACTICAL VEHICLE</b>	322,013	308,224	-13,789
	Hardware kits previously funded		-13,789	
45	<b>POWER EQUIPMENT ASSORTED</b>	26,625	18,955	-7,670
	Intelligent power distribution previously funded		-7,670	
46	<b>AMPHIBIOUS SUPPORT EQUIPMENT</b>	17,119	12,319	-4,800
	Tactical unmanned resupply aircraft system and support unjustified request		-4,800	
48	<b>PHYSICAL SECURITY EQUIPMENT</b>	84,513	105,813	21,300
	Program increase - multi-domain counter-intrusion systems		21,300	
50	<b>TRAINING DEVICES</b>	37,814	34,241	-3,573
	CACCTUS lab equipment previously funded		-3,573	
51	<b>FAMILY OF CONSTRUCTION EQUIPMENT</b>	34,658	32,979	-1,679
	All-terrain crane SLEP previously funded		-1,679	

## AIRCRAFT PROCUREMENT, AIR FORCE

Fiscal year 2022 budget request .....	\$15,727,669,000
Committee recommendation .....	16,628,047,000
Change from budget request .....	+900,378,000

The Committee recommends an appropriation of \$16,628,047,000 for Aircraft Procurement, Air Force which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
AIRCRAFT PROCUREMENT, AIR FORCE							
1	COMBAT AIRCRAFT B-21 RAIDER	---	108,027	---	108,027	---	---
2	TACTICAL FORCES F-35	48	4,187,604	48	4,217,604	---	+50,000
3	F-35 (AP-CY)	---	352,632	---	342,536	---	-10,096
5	F-15EX	12	1,186,903	12	1,122,087	---	-64,816
6	F-15EX (AP-CY)	---	147,919	---	147,919	---	---
	TOTAL, COMBAT AIRCRAFT	---	5,863,085	---	5,838,173	---	-24,912
7	AIRLIFT AIRCRAFT/TACTICAL AIRLIFT KC-46A TANKER	14	2,380,315	14	2,315,315	---	-65,000
8	OTHER AIRLIFT C-130J	1	128,890	1	815,796	---	+486,906
9	MC-130J	3	220,049	3	220,249	---	---
	TOTAL, AIRLIFT AIRCRAFT	---	2,729,260	---	3,151,180	---	+421,920
11	OTHER AIRCRAFT TRAINER AIRCRAFT ADVANCED TRAINER REPLACEMENT T-X	---	10,397	---	---	---	-10,397
13	HELICOPTERS COMBAT RESCUE HELICOPTER	14	792,221	14	792,221	---	---
16	MISSION SUPPORT AIRCRAFT CIVIL AIR PATROL A/C	---	2,813	---	11,400	---	+8,587
17	OTHER AIRCRAFT TARGET DRONES	22	116,169	22	116,169	---	---
19	E-11 BACH/HAG	---	124,435	---	124,435	---	---
21	HQ-9	---	3,268	---	78,667	---	+75,269
	TOTAL, OTHER AIRCRAFT	---	1,049,323	---	1,122,792	---	+73,469
MODIFICATION OF INSERVICE AIRCRAFT STRATEGIC AIRCRAFT							
23	B-2A	---	29,844	---	29,844	---	---
24	B-1B	---	30,519	---	26,541	---	-3,977
25	B-52	---	74,867	---	82,620	---	+7,753
26	COMBAT RESCUE HELICOPTER	---	81,191	---	81,191	---	---
27	LARGE AIRCRAFT INFRARED COUNTERMEASURES	---	57,001	---	57,001	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
TACTICAL AIRCRAFT						
28 A-10	---	83,621	---	83,621	---	---
29 E-11 BACN/HAG	---	68,955	---	68,955	---	---
30 F-15	---	234,340	---	223,790	---	-10,550
31 F-16	---	613,168	---	702,051	---	+88,883
32 F-22A	---	424,722	---	364,722	---	-60,000
33 F-35 MODIFICATIONS	---	304,135	---	283,135	---	-21,000
34 F-15 EPAW	6	149,797	6	116,608	---	-32,989
35 KC-46A MODS	---	1,984	---	1,984	---	---
AIRLIFT AIRCRAFT						
37 C-5	---	25,431	---	25,431	---	---
38 C-17A	---	59,570	---	59,570	---	---
40 C-32A	---	1,949	---	1,949	---	---
41 C-37A	---	5,984	---	5,984	---	---
TRAINER AIRCRAFT						
42 GLIDER MODS	---	142	---	142	---	---
43 T6	---	8,735	---	8,735	---	---
44 T-1	---	3,872	---	872	---	-3,000
45 T-38	---	49,851	---	49,851	---	---
OTHER AIRCRAFT						
46 U-2 MODS	---	128,809	---	128,809	---	---
47 KC-10A (ATCA)	---	1,902	---	1,902	---	---
49 VC-25A MOD	---	90	---	36	---	---
50 C-40	---	262	---	262	---	---
51 C-130	---	29,071	---	274,071	---	+245,000
52 C130J MODS	---	110,784	---	110,784	---	---
53 C-135	---	61,376	---	61,376	---	---
54 COMPASS CALL MODS	---	195,098	---	195,098	---	---
55 RC-135	---	207,590	---	207,590	---	---
57 E-3	---	109,855	---	109,855	---	---
58 E-4	---	19,081	---	19,081	---	---
59 E-8	---	16,312	---	16,312	---	---
60 AIRBORNE WARNING AND CONTROL SYSTEM	---	30,327	---	26,627	---	-3,700
62 H-1	---	1,533	---	1,533	---	---
63 H-60	---	13,709	---	13,709	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST		RECOMMENDED	CHANGE FROM REQUEST		
	QTY	AMOUNT	QTY	AMOUNT		
	QTY	AMOUNT	QTY	AMOUNT		
84. RQ-4 UAV MODS	---	3,205	---	3,205	---	---
85. JC/MC-130 MODIFICATIONS	---	150,283	---	148,815	---	-1,468
86. OTHER AIRCRAFT	---	54,928	---	54,828	---	---
87. MQ-9 MODS	---	144,287	---	144,287	---	---
88. MQ-9 WAS PAYLOADS	---	40,800	---	55,200	---	+14,400
89. SENIOR LEADER CS, SYSTEM - AIRCRAFT	---	23,554	---	23,554	---	---
70. CV-22 MODS	---	158,182	---	240,502	---	+82,400
TOTAL, MODIFICATION OF INSERVICE AIRCRAFT	---	3,788,775	---	4,070,759	---	+281,984
71. AIRCRAFT SPARES AND REPAIR PARTS	---	923,573	---	1,071,510	---	+147,937
INITIAL SPARES/REPAIR PARTS	---	---	---	---	---	---
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	---	---	---	---	---	---
COMMON SUPPORT EQUIPMENT	---	---	---	---	---	---
72. AIRCRAFT REPLACEMENT SUPPORT EQUIP	---	138,781	---	138,781	---	---
POST PRODUCTION SUPPORT	---	---	---	---	---	---
73. B-2A	---	1,651	---	1,651	---	---
74. B-2B	---	38,811	---	38,811	---	---
75. B-52	---	5,602	---	5,602	---	---
76. F-15	---	2,324	---	2,324	---	---
79. F-16 POST PRODUCTION SUPPORT	---	10,458	---	10,458	---	---
80. OTHER AIRCRAFT	---	---	---	---	---	---
81. RQ-4 POST PRODUCTION CHARGES	---	24,592	---	24,592	---	---
INDUSTRIAL PREPAREDNESS	---	---	---	---	---	---
82. INDUSTRIAL PREPAREDNESS	---	18,110	---	18,110	---	---
WAR CONSUMABLES	---	---	---	---	---	---
83. WAR CONSUMABLES	---	35,886	---	35,886	---	---
OTHER PRODUCTION CHARGES	---	---	---	---	---	---
84. OTHER PRODUCTION CHARGES	---	979,388	---	979,388	---	---
TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	---	1,255,561	---	1,255,561	---	---
CLASSIFIED PROGRAMS	---	18,092	---	18,092	---	---
TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE	---	15,727,869	---	16,626,047	---	+900,378

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
2	F-35 Program increase - depot acceleration	4,167,604	4,217,604 50,000	50,000
3	F-35 (AP) Airframe/CFE long lead material unjustified growth Engines/Eng ACC unjustified growth	352,632	342,536 -8,380 -1,716	-10,096
5	F-15EX Airframe, engines and AME cost adjustment Spares unjustified growth Depot activation ahead of need	1,186,903	1,122,087 -34,800 -8,016 -21,000	-64,816
7	KC-46A MDAP PMA excess growth ECO excess to need	2,380,315	2,315,315 -5,000 -60,000	-85,000
8	C-130J Program increase - four aircraft only for the Air Force Reserve Program increase - critical production DMS requirements	128,896	615,796 429,200 57,700	486,900
11	ADVANCED REPLACEMENT TRAINER T-X Procurement funds ahead of need	10,397	0 -10,397	-10,397
16	CIVIL AIR PATROL Program increase	2,813	11,400 8,587	8,587
21	MQ-9 Program increase - four aircraft	3,288	78,567 75,279	75,279
24	B-1B MIDS-JTRS installs ahead of need	30,518	26,641 -3,877	-3,877
25	B-52 Air Force requested transfer from line 71 for GPS-IU	74,957	82,820 7,863	7,863
30	F-15 F-15E MIDS-JTRS installs excess to need E/MUOS ahead of need	234,340	223,790 -1,883 -8,867	-10,556
31	F-16 Program increase - AESA radars only for for Air National Guard Program increase - AESA spares kits only for Air National Guard Program increase - AESA wideband radomes and spares only for Air National Guard AESA (active) cost adjustment for increased quantity Program increase - HUD upgrade	613,166	702,051 62,700 25,620 7,540 -26,975 20,000	88,885

P-1	Budget Request	Committee Recommended	Change from Request
32 F-22A	424,722	364,722	-60,000
Sensor enhancements forward financing		-70,000	
Program increase - RAMP		10,000	
33 F-35 MODIFICATIONS	304,135	263,135	-41,000
Block 4 group A installs ahead of need		-41,000	
34 F-15 EPAW	149,797	116,608	-32,989
Other government costs forward financing		-20,000	
Support equipment forward financing		-7,100	
Change orders excess to need		-5,889	
44 T-1	3,872	872	-3,000
Excess to need		-3,000	
51 C-130	29,071	274,071	245,000
Program increase - eight blade propeller upgrade		151,000	
Program increase - engine enhancement program		79,000	
Program increase - modular airborne firefighting system		15,000	
60 AWACS 40/45	30,327	26,627	-3,700
Block 40/45 carryover		-3,700	
65 HC/MC-130 MODS	150,263	148,815	-1,448
Communications modernization phase 1 NRE ahead of need		-1,448	
68 MQ-9 UAS PAYLOADS	40,800	55,200	14,400
Program increase - Gorgon Stare operational loss replacement		14,400	
70 CV-22 MODS	158,162	240,562	82,400
Program increase - SOCOM unfunded priority for CV-22 reliability acceleration		82,400	
71 INITIAL SPARES/REPAIR PARTS	923,573	1,071,510	147,937
Air Force requested transfer to line 25 for B-52 GPS-IU		-7,863	
HH-60W spares ahead of need		-19,200	
Program increase - unfunded priority for F135 spare engine power modules only for Air Force		175,000	



## C-130J RESERVE COMPONENT BASING

The Committee has provided funding in recent fiscal years to recapitalize Air National Guard (ANG) and Air Force Reserve (AFR) C-130H aircraft with new C-130J aircraft. The Committee has provided this funding on the presumption that the Air Force will utilize its established strategic basing process to determine which units and locations will receive these new aircraft as they are made available. This process was described in a recent report to Congress by the Secretary of the Air Force as deliberate, repeatable, standardized, and transparent. The Committee finds that recent basing actions by the Air Force have weakened the qualities of standardization and transparency in this process. The Committee has operated with the understanding that the Air Force would, at minimum, not announce preferred alternatives for C-130J basing unless all the aircraft required to equip each unit and location in question had been funded by enacted appropriations legislation. However, the November 2020 announcement of the preferred alternative for the location known as Main Operating Base 6 was made prior to funds for aircraft to equip that location being made available. The Air Force has defended that decision as preparatory based on high confidence that the funds would be enacted. However, the timing of the announcement was not necessitated by such considerations and had the effect of prejudicing congressional deliberations on pending legislation. The announcement also contradicted other communications to the Committee regarding the proper timing of C-130J basing decisions.

In order to restore standardization and transparency to the C-130J basing process, the Committee directs the Secretary of the Air Force to submit a report to the House and Senate Appropriations Committees clarifying when it is appropriate to initiate or announce each major decision point in the strategic basing process for C-130J aircraft appropriated for the ANG and AFR, as well as clarifying which offices hold responsibility for such decisions within the Department of the Air Force. This report shall be submitted to the Committees not later than September 30, 2021.

In addition, the Committee is concerned that the strategic basing process does not consider unit readiness and performance metrics for existing Air National Guard and Air Force Reserve C-130H units in the basing criteria. The Committee understands that in some cases a unit's performance can be affected by the age and condition of its C-130H aircraft but can also be indicative of effective maintenance and management of the fleet, and believes that the Air Force should take unit performance metrics such as mission capable rate into account. Therefore, the Committee directs the Secretary of the Air Force to submit a report on the extent to which unit-controllable readiness and performance factors are, or could be, factored into strategic basing criteria for reserve component C-130J basing. This report shall be submitted to the congressional defense committees not later than 90 days after the enactment of this Act.

## MISSILE PROCUREMENT, AIR FORCE

Fiscal year 2022 budget request .....	\$2,669,811,000
Committee recommendation .....	2,529,462,000
Change from budget request .....	- 140,349,000

The Committee recommends an appropriation of \$2,529,462,000 for Missile Procurement, Air Force which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
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	10,006	8,895			-2,000
OTHER MISSILES						
TACTICAL						
3	REPLAC EQUIP & WAR CONSUMABLES	7,601	7,651			50
4	AGM-103A AIR-LAUNCHED RAPID RESPONSE WEAPON	160,850	118,850			-44,000
5	JOINT AIR-SURFACE STANDOFF MISSILE (JASSM)	525	525	642,875		-67,074
6	SIDEWINDER (ATM-9X)	243	107,587	243		
7	AMRAAM	168	214,002	168		
10	PREDATOR HELLFIRE MISSILE	1,175	103,084	1,175		
11	SMALL DIAMETER BOMB	998	82,819	998		-8,960
12	SMALL DIAMETER BOMB II	805	294,649	865		-18,715
INDUSTRIAL FACILITIES						
13	INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION	757	757			
TOTAL, OTHER MISSILES						
		1,682,579	1,542,230			-140,349
MODIFICATION OF INSERVICE MISSILES						
CLASS IV						
15	ICBM FUZE MOD	40	53,013	40		
16	ICBM FUZE MOD		47,757	47,757		
18	NM IIZ MODIFICATIONS		88,579	88,579		
17	AIR LAUNCH CRUISE MISSILE		48,799	48,799		
TOTAL, MODIFICATION OF INSERVICE MISSILES						
		236,148	236,148			
SPARES AND REPAIR PARTS						
18	INITIAL SPARES/REPAIR PARTS	14,212	18,212			+2,000
19	REPLEN SPARES/REPAIR PARTS	63,547	63,547			
20	INITIAL SPARES/REPAIR PARTS	4,045	4,045			
TOTAL, SPARES AND REPAIR PARTS						
		81,804	85,804			+2,000

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
27 SPECIAL PROGRAMS						
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	---	2,889,811	---	2,529,482		-140,349
		=====		=====		=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1		Budget Request	Committee Recommended	Change from Request
2	GROUND BASED STRATEGIC DETERRENT Air Force requested transfer to line 20 for KS-75	10,895	8,895 -2,000	-2,000
4	AGM-183A AIR-LAUNCHED RAPID RESPONSE WEAPON Reduction in quantity for increased concurrency risk	160,850	116,850 -44,000	-44,000
6	JASSM AGM-158B-2 carry over AGM-158D ahead of need	710,550	642,876 -48,634 -19,040	-67,674
11	SMALL DIAMETER BOMB Contract delays	82,819	72,859 -9,960	-9,960
12	SMALL DIAMETER BOMB II Pricing adjustment	294,649	275,934 -18,715	-18,715
20	MISSILE SPARES / REPAIR PARTS (INITIAL) Air Force requested transfer from line 2 for KS-75	14,212	16,212 2,000	2,000

## AIR-LAUNCHED RAPID RESPONSE WEAPON

The budget request includes \$160,850,000 to procure the first twelve Air-Launched Rapid Response Weapon (ARRW) hypersonic missiles in support of a rapid fielding program. This rapid fielding initiative overlaps, and presumes the success of, the ARRW rapid prototyping program. The Committee fully funds the ARRW rapid prototyping program in the Research, Development, Test and Evaluation, Air Force account. The Committee notes that the flight test regimen for the rapid prototyping program has become increasingly delayed and compressed, increasing the concurrency risk to the first production lot of weapons funded in this account. The Air Force plans to address discoveries in the remaining flight tests with engineering change orders that are funded here. Due to the increased risk, the Committee recommends a reduction of \$44,000,000, an amount approximately equal to four missiles, to the request while noting that the rapid prototyping effort intends to provide up to four all-up round missiles as a residual early operational capability. Should the prototyping flight tests result in minimal discoveries, rendering the budgeted funds for engineering change orders excess to need, the Committee supports the use of these funds to procure missiles above the eight funded in this recommendation by utilizing buy-to-budget authority.

## PROCUREMENT OF AMMUNITION, AIR FORCE

Fiscal year 2022 budget request .....	\$795,168,000
Committee recommendation .....	672,321,000
Change from budget request .....	- 122,847,000

The Committee recommends an appropriation of \$672,321,000 for Procurement of Ammunition, Air Force which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PROCUREMENT OF AMMUNITION, AIR FORCE						
1	PROCUREMENT OF AMMO, AIR FORCE					
	ROCKETS	---	36,597	---	36,597	---
2	CARTRIDGES	---	169,163	---	169,163	---
	BOMBS					
	PRACTICE BOMBS	---	48,745	---	48,745	---
4	GENERAL PURPOSE BOMBS	---	176,585	---	176,585	---
5	MASSIVE ORDNANCE PENETRATOR (MOP)	---	16,500	---	16,500	---
6	JOINT DIRECT ATTACK MUNITION	1,919	124,102	1,919	4,755	-119,347
7	881	---	2,709	---	2,709	---
9	CAD/PAD	---	47,210	---	47,210	---
10	EXPLOSIVE ORDNANCE DISPOSAL (EOD)	---	8,151	---	8,151	---
11	SPARES AND REPAIR PARTS	---	535	---	535	---
12	MODIFICATIONS	---	292	---	292	---
13	ITEMS LESS THAN \$5,000,000	---	9,164	---	9,164	---
	FLARES/FUZES					
15	FLARES	---	95,297	---	95,297	---
16	FUZES	---	50,795	---	50,795	---
	TOTAL, PROCUREMENT OF AMMO, AIR FORCE	---	782,825	---	663,476	-119,347
WEAPONS						
17	SMALL ARMS	---	12,343	---	8,843	-3,500
	TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE	---	795,168	---	672,321	-122,847

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS  
[In thousands of dollars]

P-1	Budget Request	Committee Recommended	Change from Request
6 JOINT DIRECT ATTACK MUNITION Program carryover	124,102	4,755 -119,347	-119,347
17 SMALL ARMS Hold for price adjustments excess growth	12,343	8,843 -3,500	-3,500



## OTHER PROCUREMENT, AIR FORCE

Fiscal year 2022 budget request .....	\$25,251,137,000
Committee recommendation .....	25,292,801,000
Change from budget request .....	+41,664,000

The Committee recommends an appropriation of \$25,292,801,000 for Other Procurement, Air Force which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
OTHER PROCUREMENT, AIR FORCE						
VEHICULAR EQUIPMENT						
1	PASSENGER CARRYING VEHICLES	---	8,448	---	8,448	---
	PASSENGER CARRYING VEHICLE	---	---	---	---	---
CARGO + UTILITY VEHICLES						
2	FAMILY MEDIAN TACTICAL VEHICLE	---	5,804	---	5,804	---
3	CAP VEHICLES	---	1,000	---	1,000	+734
4	ITEMS LESS THAN \$5M (CARGO AND UTILITY VEHICLES)	---	57,459	---	57,459	---
SPECIAL PURPOSE VEHICLES						
5	JOINT LIGHT TACTICAL VEHICLE	---	97,325	---	90,584	-6,742
6	SECURITY AND TACTICAL VEHICLES	---	488	---	488	---
7	ITEMS LESS THAN \$5M (SPECIAL PURPOSE VEHICLES)	---	75,694	---	75,694	---
FIRE FIGHTING EQUIPMENT						
8	FIRE FIGHTING/CRAASH RESCUE VEHICLES	---	12,525	---	12,525	---
MATERIALS HANDLING EQUIPMENT						
9	ITEMS LESS THAN \$5M (MATERIALS HANDLING EQUIPMENT)	---	34,833	---	34,833	---
BASE MAINTENANCE SUPPORT						
10	RUNWAY SNOW REMOVAL & CLEANING EQUIP	---	9,134	---	9,134	---
11	ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT VEHICLES)	---	111,820	---	111,820	---
	TOTAL, VEHICULAR EQUIPMENT	---	414,607	---	408,608	+6,008
ELECTRONICS AND TELECOMMUNICATIONS EQUIP						
13	COMM SECURITY EQUIPMENT (COMSEC)	---	86,022	---	86,022	---
14	STRATEGIC MICROELECTRONIC SUPPLY SYSTEM	---	885,051	---	885,051	---
INTELLIGENCE PROGRAMS						
15	INTERNATIONAL INTEL TECH AND ARCHITECTURES	---	5,609	---	5,609	---
16	INTELLIGENCE TRAINING EQUIPMENT	---	5,719	---	5,719	---
17	INTELLIGENCE COMM EQUIP	---	25,844	---	25,844	---
ELECTRONICS PROGRAMS						
18	TRAFFIC CONTROL/LANDING	---	44,516	---	44,516	---
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	---	32,378	---	32,378	---
23	STRATEGIC COMMAND AND CONTROL	---	37,950	---	37,950	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED	CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY
24	CHEYENNE MOUNTAIN COMPLEX	---	8,258	---	8,258	---
25	MISSION PLANNING SYSTEMS	---	14,717	---	14,717	---
27	SPECIAL COMM-ELECTRONICS PROJECTS GENERAL INFORMATION TECHNOLOGY	---	43,917	---	43,917	---
28	AF GLOBAL COMMAND & CONTROL SYSTEM	---	414	---	414	---
30	MOBILITY COMMAND AND CONTROL	---	10,619	---	10,619	---
31	AIR FORCE PHYSICAL SECURITY SYSTEM	---	101,898	---	101,898	---
32	COMBAT TRAINING RANGES	---	222,588	---	212,868	-9,730
33	COMBAT TRAINING RANGES (AP)	---	14,730	---	14,730	---
34	MINIMUM ESSENTIAL EMERGENCY COMM N	---	77,119	---	68,084	-9,035
35	WIDE AREA SURVEILLANCE (WAS)	---	38,794	---	38,794	---
36	C3 COUNTERMEASURES	---	131,238	---	131,238	---
37	INTEGRATED PERSONNEL AND PAY SYSTEM	---	15,240	---	15,240	---
38	GCSS-AF FOS	---	3,959	---	3,959	---
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	---	2,224	---
43	AIR FORCE COMMUNICATIONS INFORMATION TRANSPORT SYSTEMS	---	58,489	---	58,489	---
44	AFNET	---	65,354	---	65,354	---
45	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE)	---	4,377	---	4,377	---
46	USCENTCOM	---	18,101	---	18,101	---
47	USSTRATCOM	---	4,226	---	4,226	---
48	ORGANIZATION AND BASE TACTICAL C-E EQUIPMENT	---	162,955	---	162,955	---
49	RADIO EQUIPMENT	---	14,232	---	14,232	---
51	BASE COMM INFRASTRUCTURE	---	260,797	---	260,797	---
52	MODIFICATIONS COMM ELECT MODS	---	18,607	---	18,607	---
TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP		---	2,487,185	---	2,468,400	-18,785

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
OTHER BASE MAINTENANCE AND SUPPORT EQUIP PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000.000 (SAFETY)	---	106,449	---	69,787	---	-36,662
53						
DEPOT PLANT + MATERIALS HANDLING EQ POWER CONDITIONING EQUIPMENT	---	11,274	---	11,274	---	---
54						
MECHANIZED MATERIAL HANDLING	---	8,594	---	8,594	---	---
55						
BASE SUPPORT EQUIPMENT BASE PROCURED EQUIPMENT	---	1	---	25,000	---	+24,999
56						
ENGINEERING AND EOD EQUIPMENT	---	32,139	---	32,139	---	---
57						
MOBILITY EQUIPMENT	---	63,814	---	63,814	---	---
58						
FUELS SUPPORT EQUIPMENT (FSE)	---	17,928	---	17,928	---	---
59						
ITEMS LESS THAN \$5M (BASE SUPPORT)	---	46,534	---	46,534	---	---
60						
SPECIAL SUPPORT PROJECTS DARP RC135	---	27,359	---	27,359	---	---
61						
DISTRIBUTED GROUND SYSTEMS	---	281,070	---	281,070	---	---
62						
SPECIAL UPDATE PROGRAM	---	777,652	---	777,652	---	---
63						
TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP	---	1,354,814	---	1,343,151	---	-11,663
64						
SPARE AND REPAIR PARTS SPARES AND REPAIR PARTS (CYBER)	---	978	---	978	---	---
65						
SPARES AND REPAIR PARTS	---	9,575	---	9,575	---	---
66						
CLASSIFIED PROGRAMS	---	20,880,908	---	21,062,008	---	+78,100
67						
TOTAL, OTHER PROCUREMENT, AIR FORCE	---	25,251,137	---	25,292,801	---	+41,664

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

P-1	Budget Request	Committee Recommended	Change from Request
3 CAP VEHICLES	1,066	1,800	734
Program increase		734	
5 JOINT LIGHT TACTICAL VEHICLE	97,326	90,584	-6,742
JLTV and trailers unit cost adjustments		-6,742	
32 COMBAT TRAINING RANGES	222,598	212,868	-9,730
Excess to need		-14,730	
Program increase - simplified planning execution analysis and reconstruction		5,000	
34 MEECN	77,119	68,084	-9,035
GASNTri1 ICS excess growth		-9,035	
53 PERSONAL SAFETY & RESCUE EQUIPMENT	106,449	69,787	-36,662
NGES ahead of need		-36,662	
58 BASE PROCURED EQUIPMENT	1	25,000	24,999
Programming error		-1	
Program increase - modular small arms ranges only for Air National Guard		25,000	
999 CLASSIFIED PROGRAMS	20,983,908	21,062,008	78,100
Classified adjustment		78,100	

## PROCUREMENT, SPACE FORCE

Fiscal year 2022 budget request .....	\$2,766,854,000
Committee recommendation .....	2,741,708,000
Change from budget request. ....	- 25,146,000

The Committee recommends an appropriation of \$2,741,708,000 for Procurement, Space Force which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	REQUEST QTY	AMOUNT	RECOMMENDED QTY	AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
PROCUREMENT, SPACE FORCE						
2 SPACE PROGRAMS AF SATELLITE COMM SYSTEM	---	43,655	---	33,156	---	-10,500
3 COUNTERSPACE SYSTEMS	---	64,804	---	64,804	---	---
4 FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS	---	39,444	---	39,444	---	---
5 GENERAL INFORMATION TECH - SPACE	---	3,316	---	3,316	---	---
6 GPSIII FOLLOW ON	2	601,418	2	601,418	---	---
7 GPS III SPACE SEGMENT	---	84,452	---	77,852	---	-6,600
8 GLOBAL POSITIONING (SPACE)	---	2,274	---	2,274	---	---
9 HERITAGE TRANSITION	---	13,529	---	13,529	---	---
10 SPACEBORNE EQUIP (CONSEC)	---	26,245	---	26,245	---	---
11 MILSATCOM	---	24,333	---	24,333	---	---
12 SBIR HIGH (SPACE)	---	154,526	---	154,526	---	---
13 SPECIAL SPACE ACTIVITIES	---	142,188	---	142,188	---	---
14 MOBILE USER OBJECTIVE SYSTEM	---	45,371	---	45,371	---	---
15 NATIONAL SECURITY SPACE LAUNCH	5	1,337,347	5	1,337,347	---	---
16 NUDET DETECTION SYSTEM	---	6,690	---	6,690	---	---
17 PYES HUB	---	7,406	---	7,406	---	---
18 ROCKET SYSTEMS LAUNCH PROGRAM	---	10,429	---	10,429	---	---
20 SPACE MODS	---	64,371	---	58,326	---	-6,046
21 SPACELIFT RANGE SYSTEM SPACE	---	93,774	---	93,774	---	---
22 SPARES AND REPAIR PARTS	---	1,282	---	1,282	---	---
TOTAL, PROCUREMENT, SPACE FORCE		2,766,654		2,741,708		-25,146

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
**(in thousands of dollars)**

<b>P-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>2 AF SATELLITE COMM SYSTEM</b> Underexecution	<b>43,855</b>	<b>33,155</b> -10,500	<b>-10,500</b>
<b>7 GPS III SPACE SEGMENT</b> Underexecution	<b>84,452</b>	<b>77,852</b> -6,500	<b>-6,500</b>
<b>20 SPACE MODS</b> Inadequate justification	<b>64,371</b>	<b>55,325</b> -8,046	<b>-8,046</b>



## NATIONAL SECURITY SPACE LAUNCH

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

## PROCUREMENT, DEFENSE WIDE

Fiscal year 2022 budget request .....	\$5,548,212,000
Committee recommendation .....	5,413,546,000
Change from budget request .....	- 134,666,000

The Committee recommends an appropriation of \$5,413,546,000 for Procurement, Defense-Wide which will provide the following program in fiscal year 2022:

PROCUREMENT  
(DOLLARS IN THOUSANDS)

		REQUEST		RECOMMENDED		CHANGE FROM REQUEST	
		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
PROCUREMENT, DEFENSE-WIDE							
MAJOR EQUIPMENT							
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	---	18,823	---	18,823	---	---
11	TELEPORT PROGRAM	---	34,908	---	34,908	---	---
12	JOINT FORCES HEADQUARTERS - DODIN	---	1,968	---	1,968	---	---
13	ITEMS LESS THAN \$GM	---	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)	---	82,657	---	82,657	---	---
18	JOINT SERVICE PROVIDER	---	102,038	---	102,038	---	---
19	FOURTH ESTATE NETWORK OPTIMIZATION (4ENO)	---	80,845	---	80,845	---	---
21	MAJOR EQUIPMENT, DIA MAJOR EQUIPMENT	---	530,898	---	510,688	---	-20,000
22	MAJOR EQUIPMENT, DMACT MAJOR EQUIPMENT	---	8,496	---	8,496	---	---
23	MAJOR EQUIPMENT, CODEA AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS	---	2,863	---	2,863	---	---
24	MAJOR EQUIPMENT, DPAA MAJOR EQUIPMENT, DPAA	10	494	10	494	---	---
26	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY VEHICLES	---	118	---	118	---	---
27	OTHER MAJOR EQUIPMENT	---	12,681	---	12,681	---	---
29	MAJOR EQUIPMENT, MDA THAAD SYSTEM	18	251,543	41	251,543	+23	---
31	AEGIS BMD	40	334,821	34	334,821	-6	---
32	AEGIS BMD (AP)	---	17,493	---	17,493	---	---
33	BHDS AN/TPY-2 RADARS	---	2,738	---	2,738	---	---
34	AEGIS BMD SM-3 BLOCK IIA	8	285,322	6	285,322	-2	---
35	ISRAELI PROGRAMS	1	62,000	1	62,000	---	---

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM QTY	REQUEST AMOUNT
36 SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD)	1	30,000	1	30,000	---	---
37 DEFENSE OF GUAM PROCUREMENT	---	40,000	---	---	---	-40,000
38 AEGIS ASHORE PHASE III	---	25,866	---	25,866	---	---
39 IRON DOME SYSTEM	1	108,000	1	108,000	---	---
40 AEGIS BMD HARDWARE AND SOFTWARE	14	81,791	49	81,791	+35	---
46 MAJOR EQUIPMENT, NSA INFORMATION SYSTEMS SECURITY PROGRAM (ISSP)	---	315	---	315	---	---
47 MAJOR EQUIPMENT, OSD MAJOR EQUIPMENT, OSD	---	31,420	---	34,420	---	+3,000
48 JOINT CAPABILITY TECH DEMONSTRATION (JCTD)	---	74,080	---	74,080	---	---
49 MAJOR EQUIPMENT, TJS MAJOR EQUIPMENT, TJS	---	7,830	---	7,830	---	---
TOTAL, MAJOR EQUIPMENT	---	2,385,254	---	2,322,254	---	-63,000
SPECIAL OPERATIONS COMMAND AVIATION PROGRAMS						
52 ARMED OVERWATCH/TARGETING	8	170,000	8	168,000	---	-4,000
53 MANNED ISR	---	2,500	---	2,500	---	---
54 MC-12	---	2,250	---	2,250	---	---
55 MH-60 BLACKHAWK	---	29,900	---	29,900	---	---
56 SOF ROTARY WING UPGRADES AND SUSTAINMENT	---	202,275	---	207,275	---	+5,000
57 Unmanned ISR	---	55,951	---	55,951	---	---
58 NON-STANDARD AVIATION	---	3,262	---	3,262	---	---
59 SOF U-28	---	4,176	---	4,176	---	---
60 MH-47 CHINOOK	---	130,485	---	102,485	---	-28,000
61 CV-22 SOF MODIFICATION	---	41,762	---	47,572	---	+5,810
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	---	---
66 SHIPBUILDING UNDERWATER SYSTEMS	---	17,227	---	17,227	---	---
67 AMMUNITION PROGRAMS SOF ORDNANCE ITEMS UNDER \$5,000,000	---	168,072	---	127,624	---	-40,448

PROCUREMENT  
(DOLLARS IN THOUSANDS)

	QTY	REQUEST AMOUNT	QTY	RECOMMENDED AMOUNT	CHANGE FROM REQUEST QTY	AMOUNT
68 OTHER PROCUREMENT PROGRAMS	---	131,880	---	131,889	---	---
SOF INTELLIGENCE SYSTEMS	---	---	---	---	---	---
69 DCGS-SOF	---	5,991	---	5,991	---	---
70 OTHER ITEMS UNDER \$5,000,000	---	62,722	---	59,722	---	-3,000
71 SOF COMBATANT CRAFT SYSTEMS	---	17,080	---	17,080	---	---
72 SPECIAL PROGRAMS	---	44,361	---	65,351	---	+21,000
73 TACTICAL VEHICLES	---	28,806	---	28,806	---	---
74 WARRIOR SYSTEMS UNDER \$5,000,000	---	284,548	---	286,048	---	+1,500
75 COMBAT MISSION REQUIREMENTS	---	27,513	---	4,513	---	-23,000
77 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	---	20,252	---	20,252	---	---
78 SOF OPERATIONAL ENHANCEMENTS	---	329,509	---	381,072	---	+51,563
TOTAL, SPECIAL OPERATIONS COMMAND	---	2,169,437	---	2,139,602	---	-29,835
79 CHEMICAL/BIOLOGICAL DEFENSE	---	---	---	---	---	---
CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS	---	187,916	---	181,488	---	-6,428
80 CB PROTECTION AND HAZARD MITIGATION	---	189,285	---	183,864	---	-5,421
TOTAL, CHEMICAL/BIOLOGICAL DEFENSE	---	367,183	---	365,352	---	-1,831
9909 CLASSIFIED PROGRAMS	---	835,338	---	815,338	---	-20,000
TOTAL, PROCUREMENT, DEFENSE-WIDE	---	5,546,212	---	5,413,546	---	-132,666

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

P-1	Budget Request	Committee Recommended	Change from Request
<b>21 MAJOR EQUIPMENT</b>	<b>530,896</b>	<b>510,896</b>	<b>-20,000</b>
MGUE excess growth		-20,000	
<b>37 DEFENSE OF GUAM PROCUREMENT</b>	<b>40,000</b>	<b>0</b>	<b>-40,000</b>
Lack of acquisition strategy		-40,000	
<b>47 MAJOR EQUIPMENT, OSD</b>	<b>31,420</b>	<b>34,420</b>	<b>3,000</b>
Program increase - mentor-protégé program		3,000	
<b>52 ARMED OVERWATCH/TARGETING</b>	<b>170,000</b>	<b>166,000</b>	<b>-4,000</b>
Unit cost growth		-4,000	
<b>56 SOF ROTARY WING UPGRADES AND SUSTAINMENT</b>	<b>202,278</b>	<b>207,278</b>	<b>5,000</b>
Program increase - DVEPS		5,000	
<b>60 MH-47 CHINOOK</b>	<b>130,485</b>	<b>102,485</b>	<b>-28,000</b>
Excess to need		-28,000	
<b>61 CV-22 SOF MODIFICATION</b>	<b>41,762</b>	<b>47,572</b>	<b>5,810</b>
Program increase - CV-22 reliability acceleration		5,810	
<b>67 SOF ORDNANCE ITEMS UNDER \$5M</b>	<b>168,072</b>	<b>127,624</b>	<b>-40,448</b>
Excess to need		-40,448	
<b>70 SOF OTHER ITEMS UNDER \$5M</b>	<b>62,722</b>	<b>55,722</b>	<b>-7,000</b>
Collateral equipment program decrease		-7,000	
<b>72 SPECIAL PROGRAMS</b>	<b>44,351</b>	<b>55,351</b>	<b>21,000</b>
Program increase - medium fixed wing mobility modifications		21,000	
<b>74 SOF WARRIOR SYSTEMS UNDER \$5M</b>	<b>284,548</b>	<b>286,048</b>	<b>1,500</b>
Program increase - STC		1,500	
<b>75 COMBAT MISSION REQUIREMENTS</b>	<b>27,513</b>	<b>4,513</b>	<b>-23,000</b>
Underexecution		-23,000	
<b>76 SOF OPERATIONAL ENHANCEMENTS</b>	<b>328,568</b>	<b>361,872</b>	<b>33,303</b>
Program increase - AGMS acceleration		33,303	
<b>79 CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS</b>	<b>167,918</b>	<b>151,468</b>	<b>-16,450</b>
FC ACS excess growth		-16,450	
<b>80 CB PROTECTION AND HAZARD MITIGATION</b>	<b>189,265</b>	<b>183,884</b>	<b>-5,381</b>
TATPE excess growth		-5,381	
<b>999 CLASSIFIED PROGRAMS</b>	<b>635,338</b>	<b>615,338</b>	<b>-20,000</b>
Classified adjustment		-20,000	

## DEFENSE PRODUCTION ACT PURCHASES

Fiscal year 2022 budget request .....	\$340,927,000
Committee recommendation .....	385,927,000
Change from budget request .....	+45,000,000

The Committee recommends an appropriation of \$385,927,000 for the Defense Production Act Purchases which will provide the following program in fiscal year 2022:

### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
DEFENSE PRODUCTION ACT PURCHASES	340,927	385,927	45,000
Program increase—rare earth supply chain .....		40,000	
Program increase—manufacturing of shipbuilding components .....		5,000	
<b>TOTAL, DEFENSE PRODUCTION ACT PURCHASES</b> .....	<b>340,927</b>	<b>385,927</b>	<b>45,000</b>

### DOMESTIC LOW-COST TITANIUM PRODUCTION

Titanium is critical to aerospace, ground vehicle, and weapon system applications because of its relatively high strength, corrosive resistance, and lightweight properties. The Committee understands that the availability of domestically manufactured, low-cost titanium can greatly improve the performance and capabilities of warfighting assets and United States competitiveness and reduce commercial reliance on Russia and China. The Committee encourages the Secretary of Defense to support investments through the Defense Production Act to assist in the creation of an alternative supply chain to produce non-aerospace titanium using proven low-cost production methods. Such investments will reduce risk for the defense industrial base by assisting with production and reducing supply risk for non-aerospace customers allowing for production of low-cost, non-aerospace titanium.

### RARE EARTH SUPPLY CHAIN ACTIVITIES

The Committee recommendation includes an increase of \$40,000,000 for rare earth supply chain activities and encourages the Secretary of Defense to adequately fund, and accelerate, existing commercial light rare earth separation and processing initiatives. The Committee directs the Secretary of Defense to submit a report to the House and Senate Appropriations Committees not later than 30 days after the enactment of this Act on the plan for executing the additional funding.

### RECYCLING OF STRATEGIC AND CRITICAL MINERALS

The Committee notes that the recycling of industrial waste streams is a promising way to recover rare earth elements and critical minerals of national security importance. Portions of industrial waste are exported to China to be reprocessed, leaving the United States unable to access valuable commodities of strategic importance. The Committee encourages the Secretary of Defense to coordinate with the Secretary of Energy, the Secretary of Commerce, and academic institutions to support the research and development

of recycling of rare earth elements and critical minerals in industrial waste streams.

#### NATIONAL GUARD AND RESERVE EQUIPMENT ACCOUNT

Fiscal year 2022 budget request .....	---
Committee recommendation .....	\$950,000,000
Change from budget request .....	+950,000,000

The Committee recommends an appropriation of \$950,000,000 for the National Guard and Reserve Equipment Account.

#### NATIONAL GUARD AND RESERVE EQUIPMENT ACCOUNT

The Committee recommends \$950,000,000 for the National Guard and Reserve Equipment Account. Of that amount, \$285,000,000 is for the Army National Guard; \$285,000,000 is for the Air National Guard; \$155,000,000 is for the Army Reserve; \$52,500,000 is for the Navy Reserve; \$17,500,000 is for the Marine Corps Reserve; and \$155,000,000 is for the Air Force Reserve to meet urgent equipment needs in the coming fiscal year.

This funding will allow the National Guard and reserve components to procure high priority equipment used by these components for both their military missions and missions in support of State governors. The funding within this account is not to be used to procure equipment designated as high-density critical equipment, major weapon systems, aircraft, and other equipment central to a unit's ability to perform its doctrinal mission. The funding within this account is not to be used to procure equipment purchased by the senior Service, to expand or accelerate current Service procurement plans, to purchase expendable items, or to purchase facilities or equipment for any requirement able to be satisfied elsewhere.

The Committee directs the Secretary of Defense to ensure that the National Guard and Reserve Equipment Account is executed by the Chiefs of the National Guard and reserve components with priority consideration given to the following items: acoustic hailing devices; airborne and ground detect and avoid systems; containerized ice making systems; aviation status dashboard; crash-worthy, ballistically tolerant auxiliary fuel systems; counter-UAS systems; gamma radiation protection; helmet-mounted display system; hypervisor-based cross domain access solution; KC-135 aircraft forward area refueling/defueling stations; mobile solar power units; modular small arms ranges and small arms training simulators and tools; radiological screening portals; training systems and simulators; and virtual language training systems.





## TITLE IV

### RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The fiscal year 2022 Department of Defense research, development, test and evaluation budget request totals \$111,964,188,000. The Committee recommendation provides \$110,368,824,000 for the research, development, test and evaluation accounts. The table below summarizes the Committee recommendations:

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RECAPITULATION			
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY	12,799,645	13,381,427	+581,782
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY	22,639,382	20,694,650	-1,944,712
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE	39,184,328	39,082,352	-121,976
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE	11,266,387	10,774,318	-492,069
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE	25,657,875	28,239,486	+381,611
OPERATIONAL TEST AND EVALUATION, DEFENSE	216,591	216,591	---
GRAND TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION	111,964,188	110,368,824	-1,595,364

## 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 report.

## FUNDING INCREASES

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

### RESEARCH, DEVELOPMENT, TEST AND EVALUATION SPECIAL INTEREST ITEMS

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

## OTHER TRANSACTION AUTHORITY

The Committee notes the significant increase in use of Other Transaction Authority (OTA) by the Department of Defense. In February 2021, the Under Secretary of Defense for Acquisition and Sustainment reported that the number of OTA prototype projects more than quadrupled, increasing from 308 in fiscal year 2016 to 1,434 in fiscal year 2020. Additionally, the amount of funding obligated using OTAs increased from \$1,400,000,000 to \$7,700,000,000, not including an additional \$8,000,000,000 in COVID-related OTAs awarded in fiscal year 2020. While the Committee supports the use of OTA authority when appropriate, it remains concerned about

transparency and accountability of OTA awards, especially projects carried out under an OTA consortium model, which accounts for 74 percent of the obligations in fiscal year 2020. The challenges of using the consortium model include lack of transparency with reporting in the Federal Procurement Data System, the presence of competition for awards by the consortium managers, accountability of performance, and intellectual property rights.

The Committee directs the Under Secretary of Defense for Acquisition and Sustainment to submit a report to the congressional defense committees not later than 120 days after the enactment of this Act with recommendations to revise current congressional reporting requirements for OTAs in a manner that provides greater transparency and accountability and makes such data available to the public to the maximum extent practicable.

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

Fiscal year 2022 budget request .....	\$12,799,645,000
Committee recommendation .....	13,381,427,000
Change from budget request .....	+581,782,000

The Committee recommends an appropriation of \$13,381,427,000 for Research, Development, Test and Evaluation, Army which will provide the following program in fiscal year 2022:

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY			
1 BASIC RESEARCH			
DEFENSE RESEARCH SCIENCES	297,241	325,241	+28,000
2 UNIVERSITY RESEARCH INITIATIVES	66,981	66,981	---
3 UNIVERSITY AND INDUSTRY RESEARCH CENTERS	94,003	123,253	+29,250
4 CYBER COLLABORATIVE RESEARCH ALLIANCE	5,067	5,067	---
5 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASIC RESEARCH	10,183	15,183	+5,000
TOTAL, BASIC RESEARCH	473,475	535,725	+62,250
6 APPLIED RESEARCH			
BIOMEDICAL TECHNOLOGY	11,925	11,925	---
7 COUNTER IMPROVISED-THREAT ADVANCED STUDIES	1,976	1,976	---
8 LETHALITY TECHNOLOGY	64,126	67,126	+3,000
9 ARMY APPLIED RESEARCH	28,654	28,654	---
10 SOLDIER LETHALITY TECHNOLOGY	105,168	120,168	+15,000
11 GROUND TECHNOLOGY	56,400	134,400	+78,000
12 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	172,166	213,966	+41,800
13 NETWORK C3I TECHNOLOGY	84,806	101,106	+16,500
14 LONG RANGE PRECISION FIRES TECHNOLOGY	64,285	74,285	+10,000
15 FUTURE VERTICLE LIFT TECHNOLOGY	91,411	101,411	+10,000
16 AIR AND MISSILE DEFENSE TECHNOLOGY	19,316	49,566	+30,250
17 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNOLOGIES	15,034	15,034	---
18 ALL DOMAIN CONVERGENCE APPLIED RESEARCH	25,967	25,967	---
19 C3I APPLIED RESEARCH	12,406	12,406	---
20 AIR PLATFORM APPLIED RESEARCH	6,597	6,597	---
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	123,187	+31,467
TOTAL, APPLIED RESEARCH	914,288	1,150,305	+236,017

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
26 ADVANCED TECHNOLOGY DEVELOPMENT			
MEDICAL ADVANCED TECHNOLOGY	43,804	94,804	+51,000
27 MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	14,273	14,273	---
28 ARMY AGILE INNOVATION AND DEMONSTRATION	22,231	22,231	---
29 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ADVANCED TECHNOLOGIES	909	909	---
30 ALL DOMAIN CONVERGENCE ADVANCED TECHNOLOGY	17,743	17,743	---
31 C3I ADVANCED TECHNOLOGY	3,151	3,151	---
32 AIR PLATFORM ADVANCED TECHNOLOGY	754	754	---
33 SOLDIER ADVANCED TECHNOLOGY	890	890	---
34 MEDICAL DEVELOPMENT	26,521	26,521	---
35 LETHALITY ADVANCED TECHNOLOGY	8,066	8,066	---
36 ARMY ADVANCED TECHNOLOGY DEVELOPMENT	76,815	76,815	---
37 SOLDIER LETHALITY ADVANCED TECHNOLOGY	107,966	115,966	+8,000
38 GROUND ADVANCED TECHNOLOGY	23,403	114,903	+91,500
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	41,426	+10,000
42 HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	189,123	189,123	---
43 NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY	164,951	236,201	+71,250
44 NETWORK C3I ADVANCED TECHNOLOGY	155,867	175,867	+20,000
45 LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	93,909	128,909	+35,000
46 FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	179,677	205,677	+26,000
47 AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY	46,826	95,826	+47,000
48 HUMANITARIAN DEMINING	8,649	19,000	+10,351
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	1,297,437	1,867,538	+370,101
49 ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	11,702	11,702	---
50 ARMY SPACE SYSTEMS INTEGRATION	18,755	18,755	---
51 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	---	10,000	+10,000
52 LANDMINE WARFARE AND BARRIER - ADV DEV	50,314	48,814	-1,500
53 TANK AND MEDIUM CALIBER AMMUNITION	79,873	77,373	-2,500
54 ARMORED SYSTEM MODERNIZATION - ADV DEV	170,590	166,340	-4,250
55 SOLDIER SUPPORT AND SURVIVABILITY	2,897	2,897	---
56 TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - ADV DEV	113,365	113,365	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
57 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	18,000	18,000	-2,000
58 ENVIRONMENTAL QUALITY TECHNOLOGY - DEM/VAL	11,921	19,921	+8,000
59 NATO RESEARCH AND DEVELOPMENT	3,777	3,777	---
60 AVIATION - ADV DEV	1,125,641	1,106,141	-19,500
61 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV	7,055	7,055	---
62 MEDICAL SYSTEMS - ADV DEV	22,071	18,806	-3,265
63 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	17,459	21,459	+4,000
64 ROBOTICS DEVELOPMENT	87,198	83,198	-4,000
65 EXPANDED MISSION AREA MISSILE (EMAM)	50,674	50,674	---
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) (B 4)	926	926	---
72 FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS)	69,697	79,697	+10,000
73 LOWER TIER AIR MISSILE DEFENSE (LTAMID) SENSOR	327,680	307,567	-20,123
74 TECHNOLOGY MATURATION INITIATIVES	270,124	147,602	-122,522
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	96,679	---
78 SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING	194,195	209,335	+12,140
79 COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING	13,379	13,379	---
80 HYPERSONICS	300,928	300,928	---
81 FUTURE INTERCEPTOR	7,895	8,895	-1,000
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	52,888	52,888	---
TOTAL, ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES	3,806,330	3,669,810	-136,520

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
89 SYSTEM DEVELOPMENT & DEMONSTRATION AIRCRAFT AVIONICS	6,654	6,654	---
90 ELECTRONIC WARFARE DEVELOPMENT	30,840	18,820	-12,020
91 INFANTRY SUPPORT WEAPONS	67,873	73,718	+5,845
92 MEDIUM TACTICAL VEHICLES	11,374	9,524	-1,850
93 JAVELIN	7,094	7,094	---
94 FAMILY OF HEAVY TACTICAL VEHICLES	31,602	28,470	-3,132
95 AIR TRAFFIC CONTROL	4,405	4,405	---
96 LIGHT TACTICAL WHEELED VEHICLES	2,055	2,055	---
97 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV	137,266	135,506	-1,750
98 NIGHT VISION SYSTEMS - ENG/DEV	62,690	53,053	-9,637
99 COMBAT FEEDING, CLOTHING, AND EQUIPMENT	1,858	1,858	---
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	7,453	---
107 BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	21,534	21,534	---
108 WEAPONS AND MUNITIONS - ENG/DEV	309,778	304,359	-5,419
109 LOGISTICS AND ENGINEER EQUIPMENT - ENG/DEV	59,261	52,261	-7,000
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	8,670	-5,467
113 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE	162,704	157,361	-5,343
114 RADAR DEVELOPMENT	127,919	127,919	---
115 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBs)	17,623	15,562	-2,061
117 SOLDIER SYSTEMS - WARRIOR DEM/VAL	6,454	6,454	---
118 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -END	106,354	100,132	-6,222
119 ARTILLERY SYSTEMS - END	---	25,000	+25,000
120 INFORMATION TECHNOLOGY DEVELOPMENT	122,168	120,168	-2,000
121 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A)	76,936	76,936	---
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	---
126 COMMON INFRARED COUNTERMEASURES (CIRCM)	16,630	16,630	---



RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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	26,599	-2,250
133 CONTRACT WRITING SYSTEM	22,960	22,960	---
135 AIRCRAFT SURVIVABILITY DEVELOPMENT	65,803	64,068	-1,535
138 INDIRECT FIRE PROTECTION CAPABILITY INC-2 - BLOCK 1	233,512	221,012	-12,500
137 GROUND ROBOTICS	18,241	18,241	---
139 EMERGING TECHNOLOGY INITIATIVES	254,945	259,945	+5,000
139 BIOMETRICS ENABLING CAPABILITY (BEC)	4,326	4,326	---
140 NEXT GENERATION LOAD DEVICE - MEDIUM	15,616	15,616	---
141 MEDICAL PRODUCTS AND SUPPORT SYSTEMS DEVELOPMENT	962	962	---
142 TACTICAL INTEL TARGETING ACCESS NODE (TITAN) END	54,972	54,972	---
143 ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	122,175	122,175	---
144 SMALL UNMANNED AERIAL VEHICLE (SUAV) (S 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 END	111,473	111,473	---
149 ACCESSIONS INFORMATION ENVIRONMENT (AIE)	18,790	18,790	---
150 JOINT AIR-TO-GROUND MISSILE (JAGM)	2,134	2,134	---
151 ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)	157,873	147,130	-10,743
152 COUNTER - SMALL UNMANNED AIRCRAFT SYSTEMS SYS DEV & DEMONSTRATION	33,386	33,386	---
153 MANNED GROUND VEHICLE	228,106	201,606	-23,500
154 NATIONAL CAPABILITIES INTEGRATION (NIP)	14,454	14,454	---
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	3,315,774	-76,584

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
162 MANAGEMENT SUPPORT			
THREAT SIMULATOR DEVELOPMENT	18,439	18,439	---
163 TARGET SYSTEMS DEVELOPMENT	17,404	17,404	---
164 MAJOR T&E INVESTMENT	68,139	93,739	+25,600
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	354,227	---
170 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	49,253	59,253	+10,000
171 SURVIVABILITY/LETHALITY ANALYSIS	36,389	36,389	---
172 AIRCRAFT CERTIFICATION	2,489	2,489	---
173 METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	6,689	6,689	---
174 MATERIEL SYSTEMS ANALYSIS	21,558	21,558	---
175 EXPLOITATION OF FOREIGN ITEMS	13,631	13,631	---
176 SUPPORT OF OPERATIONAL TESTING	65,122	65,122	---
177 ARMY EVALUATION CENTER	65,854	65,854	---
178 ARMY MODELING AND SIMULATION X-CMD COLLABORATION AND INTEG	2,633	2,633	---
179 PROGRAMWIDE ACTIVITIES	96,589	96,589	---
180 TECHNICAL INFORMATION ACTIVITIES	26,808	32,008	+5,200
181 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	43,042	58,042	+15,000
182 ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	1,789	1,789	---
183 ARMY DIRECT REPORT HEADQUARTERS - R&D - MHA	52,108	52,108	---
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	5,488	5,488	---
TOTAL, RDT&E MANAGEMENT SUPPORT	1,416,688	1,472,498	+55,800

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
 (DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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	22,828	---
194 BLACKHAWK PRODUCT IMPROVEMENT PROGRAM	4,773	4,773	---
195 CHINOOK PRODUCT IMPROVEMENT PROGRAM	52,372	57,372	+5,000
196 IMPROVED TURBINE ENGINE PROGRAM	275,024	246,742	-28,282
197 AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT	12,417	12,417	---
198 UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	4,594	4,594	---
199 APACHE FUTURE DEVELOPMENT	10,067	10,067	---
200 AN/TPQ-53 COUNTERFIRE TARGET ACQUISITION RADAR SYSTEM	58,681	58,681	---
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	281,523	+70,000
208 155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	213,281	213,281	---
209 AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS	---	10,000	+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	---
214 ENVIRONMENTAL QUALITY TECHNOLOGY - OPERATIONAL SYSTEM DEV	262	262	---
215 LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM	182	182	---
216 GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS)	63,937	63,937	---
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	11,720	-4,000
221 GLOBAL COMBAT SUPPORT SYSTEM	52,739	50,739	-2,000
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	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
228 AIRBORNE RECONNAISSANCE SYSTEMS	24,460	24,460	---
233 BIOMETRICS ENABLED INTELLIGENCE	2,068	2,068	---
234 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	81,720	81,720	+20,000
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,377,255	1,447,973	+70,718
CLASSIFIED PROGRAMS	2,993	2,993	---
237 DEFENSIVE CYBER - SOFTWARE PROTOTYPE DEVELOPMENT	118,811	118,811	---
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY	12,799,645	13,381,427	+581,782

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

<b>R-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>1 DEFENSE RESEARCH SCIENCES</b>	<b>297,241</b>	<b>325,241</b>	<b>28,000</b>
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	
<b>3 UNIVERSITY AND INDUSTRY RESEARCH CENTERS</b>	<b>94,003</b>	<b>123,253</b>	<b>29,250</b>
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 Walter's Edge		250	
<b>5 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>			
<b>BASIC RESEARCH</b>	<b>10,183</b>	<b>15,183</b>	<b>5,000</b>
Program increase - extreme events in structurally evolving materials		5,000	
<b>8 LETHALITY TECHNOLOGY</b>	<b>64,126</b>	<b>67,126</b>	<b>3,000</b>
Program increase - next generation remote sensing		3,000	
<b>10 SOLDIER LETHALITY TECHNOLOGY</b>	<b>105,168</b>	<b>120,168</b>	<b>15,000</b>
Program increase - Catalyst TRACA data ready		5,000	
Program increase - HERCLES		5,000	
Program increase - Pathfinder airborne		5,000	
<b>11 GROUND TECHNOLOGY</b>	<b>56,400</b>	<b>134,400</b>	<b>78,000</b>
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		6,000	
Program increase - high performance polymers		5,000	
Program increase - materials recovery technologies for defense supply resiliency		10,000	
Program increase - military waste stream conversion		5,000	
Program increase - solid oxide fuel cell development		10,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>12. NEXT GENERATION COMBAT VEHICLE TECHNOLOGY</b>	<b>172,166</b>	<b>213,966</b>	<b>41,800</b>
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	
<b>13. NETWORK C3I TECHNOLOGY</b>	<b>84,606</b>	<b>101,106</b>	<b>16,500</b>
Program increase - backpackable COMINT system		5,000	
Program increase - EW and advanced sensing		6,500	
Program increase - integrated photonics for contested RF environments		5,000	
<b>14. LONG RANGE PRECISION FIRES TECHNOLOGY</b>	<b>64,285</b>	<b>74,285</b>	<b>10,000</b>
Program increase - extended range and hybrid gun launched unmanned aerial systems		10,000	
<b>15. FUTURE VERTICLE LIFT TECHNOLOGY</b>	<b>91,411</b>	<b>101,411</b>	<b>10,000</b>
Program increase - high strength functional composites		5,000	
Program increase - individual blade and higher harmonic control		5,000	
<b>16. AIR AND MISSILE DEFENSE TECHNOLOGY</b>	<b>19,316</b>	<b>49,566</b>	<b>30,250</b>
Program increase - beam control systems and industry grade optical fiber fabrication for energy laser		12,000	
Program increase - counter UAS center for excellence		5,000	
Program increase - high energy laser technology advancements		5,000	
Program increase - machine learning optimized power electronics		3,000	
Program increase - precision long range integrated strikes		5,250	
<b>25. MEDICAL TECHNOLOGY</b>	<b>91,720</b>	<b>123,167</b>	<b>31,467</b>
Program increase - enhancing soldier ballistic technologies		5,000	
Program increase - military force vector borne health protection		5,000	
Program increase - optimizing military health and performance		7,000	
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	

R-1	Budget Request	Committee Recommended	Change from Request
<b>26 MEDICAL ADVANCED TECHNOLOGY</b>	<b>43,804</b>	<b>94,804</b>	<b>51,000</b>
Program increase - hearing protection for communications		5,000	
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	
<b>37 SOLDIER LETHALITY ADVANCED TECHNOLOGY</b>	<b>107,966</b>	<b>115,966</b>	<b>8,000</b>
Program increase - small arms fire control advanced technology		8,000	
<b>38 GROUND ADVANCED TECHNOLOGY</b>	<b>23,403</b>	<b>114,903</b>	<b>91,500</b>
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		10,000	
Program increase - explosive materials detection		3,000	
Program increase - microgrid reliability and resiliency		10,000	
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	
<b>41 C3I CYBER ADVANCED DEVELOPMENT</b>	<b>31,426</b>	<b>41,426</b>	<b>10,000</b>
Program increase - high bandwidth cryptomodule enhancements and certification		10,000	
<b>43 NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY</b>	<b>164,951</b>	<b>236,261</b>	<b>71,250</b>
Program increase - additive manufacturing for jointless hull		15,000	
Program increase - advanced adhesives		5,000	
Program increase - carbon fiber and graphitic foam		7,500	
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	

R-1	Budget Request	Committee Recommended	Change from Request
44 NETWORK C3I ADVANCED TECHNOLOGY Program increase - mesh network-enabled small satellites	155,867	175,867 20,000	20,000
45 LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY Program increase - ERAMS Program increase - extended range artillery munitions suite Program increase - hypervelocity projectile extended range	93,909	128,909 5,000 5,000 25,000	35,000
46 FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY Program increase - data refinement and optimization for aviation sustainment Program increase - FLEETSPACE maintenance tool Program increase - FVL surface tolerant adhesives Program increase - joint tactical aerial resupply vehicle Program increase - UH-60 main rotor blade modernization	179,677	205,677 4,500 4,500 4,000 8,000 5,000	26,000
47 AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY Program increase - IFPC HEL risk reduction Program increase - thermal management systems for 10kw to 50 kw lasers Program increase - missile MENTOR	48,826	95,826 25,000 12,000 10,000	47,000
48 HUMANITARIAN DEMINING Program increase	8,549	19,000 10,351	10,351
51 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING Program increase - machine learning for integrated fires	0	10,000 10,000	10,000
52 LANDMINE WARFARE AND BARRIER - ADV DEV Test and evaluation excess	50,314	48,814 -1,500	-1,500
53 TANK AND MEDIUM CALIBER AMMUNITION Testing excess	79,873	77,373 -2,500	-2,500
54 ARMORED SYSTEM MODERNIZATION - ADV DEV Testing excess	170,590	166,340 -4,250	-4,250
57 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT Gen 2 IVAS ahead of need	18,000	18,000 -2,000	-2,000
58 ENVIRONMENTAL QUALITY TECHNOLOGY - DEM/VAL Program increase - underwater cut and capture Program increase - wire-arc additive manufacturing	11,921	19,921 3,000 5,000	8,000
60 AVIATION - ADV DEV FLRAA PM costs excess growth FARA prototype costs previously funded FARA ecosystem excess FARA MOSA development excess Program increase - all electric flight control systems	1,125,641	1,106,141 -4,500 -10,000 -5,000 -5,000 5,000	-19,500



R-1	Budget Request	Committee Recommended	Change from Request
62 MEDICAL SYSTEMS - ADV DEV Burn treatment skin repair ahead of need	22,071	18,806 -3,265	-3,265
63 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT Program increase - multi-spectral signature management	17,459	21,459 4,000	4,000
64 ROBOTICS DEVELOPMENT RCV M&S and support excess	87,198	83,198 -4,000	-4,000
72 FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS) Program increase - future unmanned aircraft systems	69,697	79,697 10,000	10,000
73 LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR Long term power and support costs ahead of need	327,690	307,567 -20,123	-20,123
74 TECHNOLOGY MATURATION INITIATIVES AX3 insufficient justification CE4 new start insufficient justification	270,124	147,602 -87,602 -34,920	-122,522
78 SYNTHETIC TRAINING ENVIRONMENT REFINEMENT & PROTOTYPING AvSE excess to need Program increase - multi-sensor terrain data capture and processing Program increase - next generation MILES	194,195	206,335 -2,460 4,600 10,000	12,140
81 FUTURE INTERCEPTOR Excess to need	7,895	6,895 -1,000	-1,000
90 ELECTRONIC WARFARE DEVELOPMENT MFEW undefined future	30,840	18,820 -12,020	-12,020
91 INFANTRY SUPPORT WEAPONS SEP unjustified need Program increase - cannon life extension program Program increase - turret gunner survivability and simulation environment	67,873	73,718 -3,655 4,500 5,000	5,845
92 MEDIUM TACTICAL VEHICLES OT previously funded	11,374	9,624 -1,850	-1,850
94 FAMILY OF HEAVY TACTICAL VEHICLES EHETS training ahead of need Carryover	31,602	28,470 -1,832 -1,500	-3,132
97 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG Government support excess	137,266	135,506 -1,750	-1,750
98 NIGHT VISION SYSTEMS - ENG DEV NVG-N unjustified request	62,690	53,053 -9,637	-9,637

R-1	Budget Request	Committee Recommended	Change from Request
<b>108 WEAPONS AND MUNITIONS - ENG DEV</b>	<b>309,778</b>	<b>304,369</b>	<b>-5,419</b>
C-DAEM overestimation		-3,058	
PGK product development previously funded		-2,363	
<b>109 LOGISTICS AND ENGINEER EQUIPMENT - ENG DEV</b>	<b>58,261</b>	<b>52,261</b>	<b>-7,000</b>
MSV feasibility study previously funded		-2,000	
Carryover		-5,000	
<b>112 LANDMINE WARFARE/BARRIER - ENG DEV</b>	<b>14,137</b>	<b>8,670</b>	<b>-5,467</b>
Prototype integration insufficient justification		-5,467	
<b>113 ARMY TACTICAL COMMAND &amp; CONTROL HARDWARE &amp; SOFTWARE</b>	<b>162,704</b>	<b>157,361</b>	<b>-5,343</b>
CECOM contract delays		-3,893	
Rigid wall shelter duplication		-1,450	
<b>115 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFBS)</b>	<b>17,623</b>	<b>16,562</b>	<b>-2,061</b>
Maintain level of effort		-2,061	
<b>118 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS - EMD</b>	<b>106,354</b>	<b>100,132</b>	<b>-6,222</b>
PM maintain level of effort		-2,300	
Survivability enhancements unjustified growth		-3,922	
<b>119 ARTILLERY SYSTEMS - EMD</b>	<b>0</b>	<b>25,000</b>	<b>25,000</b>
Program increase - soft recoil artillery systems		25,000	
<b>120 INFORMATION TECHNOLOGY DEVELOPMENT</b>	<b>122,168</b>	<b>120,168</b>	<b>-2,000</b>
GFIM unjustified growth		-2,000	
<b>132 TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER)</b>	<b>28,849</b>	<b>26,589</b>	<b>-2,250</b>
Testing previously funded		-2,250	
<b>135 AIRCRAFT SURVIVABILITY DEVELOPMENT</b>	<b>65,603</b>	<b>64,068</b>	<b>-1,535</b>
Machine learning unjustified need		-1,535	
<b>136 INDIRECT FIRE PROTECTION CAPABILITY INC 2 - BLOCK 1</b>	<b>233,512</b>	<b>221,012</b>	<b>-12,500</b>
Interim integration and testing		-5,000	
Enduring test and evaluation		-7,500	
<b>138 EMERGING TECHNOLOGY INITIATIVES</b>	<b>254,945</b>	<b>259,945</b>	<b>5,000</b>
Program increase - TRistructural-ISOTrophic fuel production		5,000	
<b>151 ARMY INTEGRATED AIR AND MISSILE DEFENSE</b>	<b>157,573</b>	<b>147,130</b>	<b>-10,743</b>
Beyond IOC costs ahead of need		-10,743	
Program increase - kill chain automation		6,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>153 MANNED GROUND VEHICLE</b>	<b>225,106</b>	<b>201,606</b>	<b>-23,500</b>
PM support excess		-5,500	
Design OTAs excess		-18,000	
<b>164 MAJOR T&amp;E INVESTMENT</b>	<b>68,139</b>	<b>93,739</b>	<b>25,600</b>
Program increase - advancing operational test infrastructure		25,600	
<b>170 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS</b>	<b>49,253</b>	<b>59,253</b>	<b>10,000</b>
Program increase - rapid assurance modernization		10,000	
<b>180 TECHNICAL INFORMATION ACTIVITIES</b>	<b>26,808</b>	<b>32,008</b>	<b>5,200</b>
Program increase - extending standard shareable geospatial foundation to tactical edge warriors		5,200	
<b>181 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY</b>	<b>43,042</b>	<b>58,042</b>	<b>15,000</b>
Program increase - foamable celluloid materials		5,000	
Program increase - industrial base resiliency initiative		5,000	
Program increase - polymer case ammunition		5,000	
<b>195 CHINOOK PRODUCT IMPROVEMENT PROGRAM</b>	<b>52,372</b>	<b>57,372</b>	<b>5,000</b>
Program increase - CH-47 engine enhancement		5,000	
<b>196 IMPROVED TURBINE ENGINE PROGRAM</b>	<b>275,024</b>	<b>246,742</b>	<b>-28,282</b>
Platform integration previously funded		-28,282	
<b>207 COMBAT VEHICLE IMPROVEMENT PROGRAMS</b>	<b>211,523</b>	<b>281,523</b>	<b>70,000</b>
Program increase - Abrams modernization		65,000	
Program increase - next generation auxiliary power unit		5,000	
<b>209 AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS</b>	<b>0</b>	<b>10,000</b>	<b>10,000</b>
Program increase - UAS ground based sense and avoid		10,000	
<b>220 INFORMATION SYSTEMS SECURITY PROGRAM</b>	<b>15,720</b>	<b>11,720</b>	<b>-4,000</b>
Carryover		-4,000	
<b>221 GLOBAL COMBAT SUPPORT SYSTEM</b>	<b>52,739</b>	<b>60,739</b>	<b>-2,000</b>
Testing excess		-2,000	
<b>234 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES</b>	<b>61,720</b>	<b>81,720</b>	<b>20,000</b>
Program increase - liquid hydrogen refueling systems		10,000	
Program increase - N2O6		10,000	

## ENTERPRISE INFORMATION TECHNOLOGY AS A SERVICE

The Army is assessing, evaluating, and deploying commercial solutions for data transport, end-user device provision, and cloud services at select installations. The Committee supports the Army's direction to utilize commercial best practices and capabilities from multiple vendors and encourages the Secretary of the Army to expand beyond the current pilot sites to other Army installations. The Committee directs the Secretary of the Army to provide a report to the congressional defense committees not later than 90 days after the enactment of this Act on the plan for expansion of the Enterprise Information Technology as a Service (EITaaS) program and efforts to support a more holistic enterprise approach to take advantage of cost savings by leveraging a greater number of sites and user populations. The report shall include a detailed cost model for the expansion of EITaaS which shall draw comparisons from the current EITaaS lines of effort to the funding being utilized from baseline programs.

## MICROGRID RELIABILITY AND RESILIENCY RESEARCH

The Committee recognizes the growing need for advanced microgrid technologies that enhance the reliability and resiliency of energy systems at Department of Defense installations and in forward operations environments. The Committee recommendation includes an additional \$10,000,000 to develop advanced control technologies, maneuverability and portability innovations for microgrids, and advanced cybersecurity technologies and protocols.

## GUIDED MULTIPLE LAUNCH ROCKET SYSTEM

Guided Multiple Launch Rocket System (GMLRS) rockets provide an important capability for the Army. The Committee encourages the Secretary of the Army to continue to pursue options that lead to cost reductions, including an examination of whether qualifying a second source for the GMLRS-extended range variant will benefit the program based upon the total Army munition requirement and the costs associated with such a decision.

## INTEGRATED PHOTONICS

Integrated photonics provide secured, laser-based communications, data networking, and weapons system signal processing capabilities which improve data throughput performance and reductions in size, weight, and power usage. The Committee encourages the Secretary of the Army to continue to invest in this technology which can provide long-term industrial benefits and improved battlefield communications.

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Fiscal year 2022 budget request .....	\$22,639,362,000
Committee recommendation .....	20,694,650,000
Change from budget request .....	- 1,944,712,000

The Committee recommends an appropriation of \$20,694,650,000 for Research, Development, Test and Evaluation, Navy which will provide the following program in fiscal year 2022:

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY			
1 BASIC RESEARCH			
1 UNIVERSITY RESEARCH INITIATIVES	117,448	142,898	+25,450
3 DEFENSE RESEARCH SCIENCES	484,421	489,421	+5,000
TOTAL, BASIC RESEARCH	601,869	632,319	+30,450
4 APPLIED RESEARCH			
4 POWER PROJECTION APPLIED RESEARCH	23,013	32,984	+9,971
5 FORCE PROTECTION APPLIED RESEARCH	122,868	156,888	+34,000
6 MARINE CORPS LANDING FORCE TECHNOLOGY	51,112	58,612	+7,500
7 COMMON PICTURE APPLIED RESEARCH	51,477	47,901	-3,576
8 WARFIGHTER SUSTAINMENT APPLIED RESEARCH	70,547	80,488	+9,941
9 ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	85,157	85,157	---
10 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	70,088	90,588	+20,500
11 JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	5,405	6,405	---
12 UNDERSEA WARFARE APPLIED RESEARCH	57,484	88,484	+31,000
13 FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	173,358	169,699	-3,657
14 MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	32,160	32,160	---
15 INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH	152,976	152,978	---
16 SCIENCE AND TECHNOLOGY MANAGEMENT - ONR HEADQUARTERS	79,254	79,254	---
TOTAL, APPLIED RESEARCH	975,915	1,081,594	+105,679
17 ADVANCED TECHNOLOGY DEVELOPMENT			
17 FORCE PROTECTION ADVANCED TECHNOLOGY	21,651	27,881	+6,000
18 ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	8,148	12,148	+4,000
19 MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)	224,155	242,312	+18,157
20 JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	13,429	13,429	---
21 FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV	265,299	248,176	-17,123
22 MANUFACTURING TECHNOLOGY PROGRAM	57,238	62,238	+5,000
23 WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,935	35,435	+30,500
24 NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	47,167	50,633	+3,466
25 MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY	1,981	1,981	---
26 INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY	133,779	127,319	-6,460
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	777,788	821,328	+43,540
27 ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
27 UNMANNED AERIAL SYSTEM	16,879	16,167	-712

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
28 LARGE UNMANNED SURFACE VEHICLES (LUSVS)	144,848	102,848	-42,000
29 AIR/OCEAN TACTICAL APPLICATIONS	27,849	27,849	---
30 AVIATION SURVIVABILITY	16,815	16,815	---
31 NAVAL CONSTRUCTION FORCES	5,290	4,315	-975
33 ASW SYSTEMS DEVELOPMENT	17,612	17,612	---
34 TACTICAL AIRBORNE RECONNAISSANCE	3,111	3,111	---
35 ADVANCED COMBAT SYSTEMS TECHNOLOGY	32,310	35,310	+3,000
36 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	58,013	53,391	-4,622
37 SURFACE SHIP TORPEDO DEFENSE	1,862	4,862	+3,000
38 CARRIER SYSTEMS DEVELOPMENT	7,182	7,182	---
39 PILOT FISH	408,087	368,087	-40,000
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	98,174	-1,608
45 SUBMARINE TACTICAL WARFARE SYSTEMS	14,069	14,069	---
46 SHIP CONCEPT ADVANCED DESIGN	111,590	128,280	+16,690
47 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	106,957	48,338	-58,619
48 ADVANCED NUCLEAR POWER SYSTEMS	203,572	185,480	-18,082
49 ADVANCED SURFACE MACHINERY SYSTEMS	78,122	66,072	-12,050
50 CHALK EAGLE	80,270	80,270	---
51 LITTORAL COMBAT SHIP (LCS)	84,924	67,518	-27,406
52 COMBAT SYSTEM INTEGRATION	17,322	17,322	---
53 OHIO REPLACEMENT	286,231	308,731	+12,500
54 LCS MISSION MODULES	75,995	70,191	-5,804
55 AUTOMATED TEST AND RE-TEST	7,805	37,805	+30,000
56 FRIGATE DEVELOPMENT	108,459	105,203	-4,256
57 CONVENTIONAL MUNITIONS	7,296	7,296	---
58 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	77,085	56,044	-21,021
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	50,887	+17,043

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
63 FACILITIES IMPROVEMENT	6,327	6,327	---
64 CHALK CORAL	579,389	469,389	-110,000
65 NAVY LOGISTIC PRODUCTIVITY	669	669	---
66 RETRACT MAPLE	295,295	295,295	---
67 LINK PLUMERIA	692,280	517,280	-175,000
68 RETRACT ELM	83,904	83,904	---
69 LINK EVERGREEN	221,253	221,253	---
71 NATO RESEARCH AND DEVELOPMENT	5,805	4,805	-1,000
72 LAND ATTACK TECHNOLOGY	4,017	4,017	---
73 JOINT NONLETHAL WEAPONS TESTING	28,589	28,168	-1,421
74 JOINT PRECISION APPROACH AND LANDING SYSTEMS	24,450	21,950	-2,500
75 DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	81,803	76,053	-5,750
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	84,876	78,710	-7,966
79 UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	59,299	69,299	+10,000
81 LARGE UNMANNED UNDERSEA VEHICLES	88,063	81,407	-6,656
82 GERALD R FORD CLASS NUCLEAR AIRCRAFT CARRIER	121,509	121,509	---
83 LITTORAL AIRBORNE HCM	18,869	15,187	-3,482
84 SURFACE MINE COUNTERMEASURES	13,655	12,507	-1,148
85 TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	33,246	33,246	---
88 NEXT GENERATION LOGISTICS	1,071	3,071	+2,000
87 FUTURE VERTICAL LIFT (MARITIME STRIKE)	9,826	8,274	-1,551
88 RAPID TECHNOLOGY CAPABILITY PROTOTYPE	6,555	4,386	-2,169
89 LX (R)	3,344	3,344	---
90 ADVANCED UNDERSEA PROTOTYPING	58,473	47,766	-10,707
91 COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS)	5,529	5,529	---
92 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	97,944	79,460	-18,484
93 SPACE & ELECTRONIC WARFARE (SEM) ARCHITECTURE/ENGINE	9,340	9,340	---
94 OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT	127,756	87,325	-40,431
95 MEDIUM UNMANNED SURFACE VEHICLES (MUSVS)	80,028	80,028	---
96 UNMANNED SURFACE VEHICLE ENABLING CAPABILITIES	170,838	83,552	-87,286
97 GROUND BASED ANTI-SHIP MISSILE (MARFORRES)	102,716	99,082	-3,654
98 LONG RANGE FIRES (MARFORRES)	88,479	88,479	---
99 CONVENTIONAL PROMPT STRIKE (CPS)	1,372,340	1,275,355	-96,985

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
100 ASW SYSTEMS DEVELOPMENT - MIP	8,571	8,571	---
101 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM	16,204	28,830	+12,626
102 ELECTRONIC WARFARE DEVELOPMENT - MIP	506	506	---
TOTAL, DEMONSTRATION & VALIDATION	7,077,987	6,371,501	-706,486
SYSTEM DEVELOPMENT & DEMONSTRATION			
103 TRAINING SYSTEM AIRCRAFT	5,884	5,884	---
104 OTHER HELO DEVELOPMENT	56,444	49,312	-7,132
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	46,418	---
108 P-3 MODERNIZATION PROGRAM	579	579	---
109 WARFARE SUPPORT SYSTEM	10,167	10,167	---
110 COMMAND AND CONTROL SYSTEMS	122,913	122,913	---
111 ADVANCED HAWKEYE	386,860	346,860	-40,000
112 H-1 UPGRADES	50,158	50,158	---
113 ACOUSTIC SEARCH SENSORS	48,066	49,067	+2,991
114 V-22A	107,984	101,479	-6,505
115 AIR CREW SYSTEMS DEVELOPMENT	22,746	18,535	-4,211
116 EA-15	68,425	59,674	-8,751
117 ELECTRONIC WARFARE DEVELOPMENT	139,535	133,375	-6,160
118 EXECUTIVE HELO DEVELOPMENT	45,932	36,124	-9,808
119 NEXT GENERATION JAMMER (NGJ)	243,923	235,407	-8,516
120 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY)	234,434	228,527	-5,907
121 NEXT GENERATION JAMMER (NGJ) INCREMENT II	248,096	230,100	-17,996
122 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	371,575	369,811	-1,764
123 LPD-17 CLASS SYSTEMS INTEGRATION	904	904	---
124 SMALL DIAMETER BOMB (SDB)	46,769	40,852	-5,917
125 STANDARD MISSILE IMPROVEMENTS	343,511	298,550	-44,961
126 AIRBORNE MCM	10,881	10,881	---
127 NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG	46,121	43,733	-2,388
129 ADVANCED ABOVE WATER SENSORS	77,852	48,352	-29,500
130 SSN-688 AND TRIDENT MODERNIZATION	95,693	95,693	---
131 AIR CONTROL	27,499	27,499	---
132 SHIPBOARD AVIATION SYSTEMS	8,924	8,924	---



RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
133 COMBAT INFORMATION CENTER CONVERSION	11,631	11,631	---
134 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	96,556	87,520	-9,036
135 ADVANCED ARRESTING GEAR (AAG)	147	147	---
136 NEW DESIGN SSN	503,252	453,252	-50,000
137 SUBMARINE TACTICAL WARFARE SYSTEM	62,115	62,115	---
138 SHIP CONTRACT DESIGN/LIVE FIRE T&E	54,829	52,584	-2,245
139 NAVY TACTICAL COMPUTER RESOURCES	4,290	4,290	---
140 MINE DEVELOPMENT	76,027	65,646	-10,381
141 LIGHTWEIGHT TORPEDO DEVELOPMENT	94,386	87,786	-6,600
142 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	8,348	8,348	---
143 USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG DEV	42,144	38,282	-3,862
144 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	7,375	5,945	-1,430
146 SHIP SELF DEFENSE (DETECT & CONTROL)	149,433	142,595	-6,838
147 SHIP SELF DEFENSE (ENGAGE HARD KILL)	87,862	84,488	-3,374
148 SHIP SELF DEFENSE (ENGAGE SOFT KILL/EW)	69,006	65,460	-3,546
149 INTELLIGENCE ENGINEERING	20,654	20,654	---
150 MEDICAL DEVELOPMENT	3,967	31,467	+27,500
151 NAVIGATION/ID SYSTEM	48,837	48,837	---
152 JOINT STRIKE FIGHTER (JSF) - END	577	577	---
153 JOINT STRIKE FIGHTER (JSF)	282	282	---
154 SSN(X)	29,828	4,980	-24,848
155 MARINE CORPS IT DEV/MOD	11,277	7,098	-4,179
156 INFORMATION TECHNOLOGY DEVELOPMENT	243,828	285,085	+21,257
157 ANTI-TAMPER TECHNOLOGY SUPPORT	8,428	7,771	-655
158 TACAMO MODERNIZATION	150,592	87,712	-62,880
159 CH-53K	256,903	256,903	---
160 MISSION PLANNING	88,128	88,128	---
161 COMMON AVIONICS	60,117	57,662	-2,256
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	259,666	-9,271
165 JOINT AIR-TO-GROUND MISSILE (JAGM)	356	356	---
166 MULTI-MISSION MARITIME AIRCRAFT (MMA)	27,279	27,279	---
167 MULTI-MISSION MARITIME AIRCRAFT (MMA) INCREMENT 3	173,784	173,784	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
168 MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO	80,709	61,978	-18,731
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	138,140	133,781	-2,359
175 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	26,318	23,768	-2,550
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	5,910,089	5,537,280	-372,809
176 MANAGEMENT SUPPORT			
THREAT SIMULATOR DEVELOPMENT	20,862	20,862	---
177 TARGET SYSTEMS DEVELOPMENT	12,113	9,955	-2,158
178 MAJOR T&E INVESTMENT	84,817	84,817	---
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	93,968	97,350	+3,384
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	418,100	-11,177
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	-3,518
192 MANAGEMENT HEADQUARTERS - R&D	35,614	35,614	---
193 WARFARE INNOVATION MANAGEMENT	38,958	38,958	---
194 INSIDER THREAT	2,581	2,581	---
195 MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES)	1,747	1,747	---
TOTAL, ROT&E MANAGEMENT SUPPORT	998,686	985,217	-13,469
199 OPERATIONAL SYSTEMS DEVELOPMENT			
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	65,381	---
202 COOPERATIVE ENGAGEMENT CAPABILITY (CEC)	176,486	162,676	-13,810
203 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	177,098	149,857	-27,241

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
204 SSBN SECURITY TECHNOLOGY PROGRAM	45,775	45,775	---
205 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	64,752	49,007	-15,745
206 NAVY STRATEGIC COMMUNICATIONS	35,451	35,451	---
207 F/A-18 SQUADRONS	189,224	207,224	+18,000
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	21,387	21,387	---
214 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	56,741	52,741	-4,000
215 ELECTRONIC WARFARE (EW) READINESS SUPPORT	62,006	48,838	-13,168
216 HARM IMPROVEMENT	133,520	125,823	-7,697
217 SURFACE ASW COMBAT SYSTEM INTEGRATION	28,804	28,804	---
218 MK-48 ADCAP	114,492	100,759	-13,733
219 AVIATION IMPROVEMENTS	132,486	134,621	+2,135
220 OPERATIONAL NUCLEAR POWER SYSTEMS	113,780	113,780	---
221 MARINE CORPS COMMUNICATIONS SYSTEMS	88,897	88,897	-1,000
222 COMMON AVIATION COMMAND AND CONTROL SYSTEM	9,324	9,324	---
223 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	108,235	94,225	-14,010
224 MARINE CORPS COMBAT SERVICES SUPPORT	13,185	13,185	---
225 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)	37,695	57,695	+20,000
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	+6,000
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	7,338	-2,499
238 UAS INTEGRATION AND INTEROPERABILITY	9,787	5,000	-4,787
239 DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS	38,800	29,749	-9,051
240 MQ-4C TRITON	13,029	13,029	---
241 MQ-8 UAV	26,543	26,543	---
242 RQ-11 UAV	533	533	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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 (NIP)	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	35,030	-1,850
252 MARITIME TECHNOLOGY (MARITECH)	3,329	9,329	+6,000
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	3,440,733	3,364,267	-76,466
9999 CLASSIFIED PROGRAMS	1,872,586	1,872,586	---
254 RISK MANAGEMENT INFORMATION - SOFTWARE PILOT PROGRAM	13,703	13,703	---
255 NAVY NEXT GENERATION ENTERPRISE NETWORK (NGEN) - SOFTWARE PILOT PROGRAM	955,151	---	-955,151
256 MARITIME TACTICAL COMMAND AND CONTROL (MTC2) - SOFTWARE PILOT PROGRAM	14,855	14,855	---
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY	22,639,362	20,694,650	-1,944,712

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

R-1		Budget Request	Committee Recommended	Change from Request
1	<b>UNIVERSITY RESEARCH INITIATIVES</b>	117,448	142,898	25,450
	Program increase - university research initiatives		10,000	
	Program increase - defense university research instrumentation program		10,000	
	Project increase - coastal adaptation research for improved coastal community and NWS Earle military		450	
	Project increase - coastal equity and resiliency hub		5,000	
3	<b>DEFENSE RESEARCH SCIENCES</b>	484,421	489,421	5,000
	Program increase - silicon-germanium-tin alloy research		5,000	
4	<b>POWER PROJECTION APPLIED RESEARCH</b>	23,013	32,984	9,971
	High speed propulsion and advanced weapon technologies excess growth		-2,029	
	Program increase - manufacturing of high temperature hypersonic materials		8,000	
	Program increase - miniaturization of lasers		4,000	
5	<b>FORCE PROTECTION APPLIED RESEARCH</b>	122,888	156,888	34,000
	Program increase - direct air capture and blue carbon removal technology		7,500	
	Program increase - talent and technology for Navy power and energy systems		10,500	
	Program increase - 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		5,000	
6	<b>MARINE CORPS LANDING FORCE TECHNOLOGY</b>	51,112	58,612	7,500
	Program increase - unmanned logistics solutions		7,500	
7	<b>COMMON PICTURE APPLIED RESEARCH</b>	51,477	47,991	-3,576
	Applied information sciences for decision making excess growth		-3,576	
8	<b>WARFIGHTER SUSTAINMENT APPLIED RESEARCH</b>	70,547	80,488	9,941
	Biocentric technologies previously funded		-1,059	
	Program increase - health and safety research of underground fuel storage facilities		5,000	
	Program increase - advanced nanocomposite coatings		8,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>10 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH</b>	<b>70,086</b>	<b>90,586</b>	<b>20,500</b>
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	
<b>12 UNDERSEA WARFARE APPLIED RESEARCH</b>	<b>57,484</b>	<b>88,484</b>	<b>31,000</b>
Program increase - academic partnerships for innovative research		25,000	
Program increase - energetics global awareness		2,000	
Program increase - undersea sensing and communications		4,000	
<b>13 FUTURE NAVAL CAPABILITIES APPLIED RESEARCH</b>	<b>173,356</b>	<b>169,699</b>	<b>-3,657</b>
Ocean battlespace sensing excess growth		-2,123	
Sea warfare and weapons excess growth		-4,306	
Warfighter performance excess growth		-2,228	
Program increase - improved detection of submarine threats		5,000	
<b>17 FORCE PROTECTION ADVANCED TECHNOLOGY</b>	<b>21,661</b>	<b>27,661</b>	<b>6,000</b>
Program increase - power electronics building block		6,000	
<b>18 ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY</b>	<b>8,146</b>	<b>12,146</b>	<b>4,000</b>
Program increase - advanced machine learning and artificial intelligence		4,000	
<b>19 USMC ADVANCED TECHNOLOGY DEMONSTRATION</b>	<b>224,155</b>	<b>242,312</b>	<b>18,157</b>
Command, control, communications, computers failure to comply with congressional direction		-3,859	
Force protection previously funded		-1,606	
Maneuver unjustified growth		-3,350	
Combat service support and force protection excess growth		-9,029	
Program increase - expeditionary process, exploitation and dissemination		4,000	
Program increase - advanced mission planning system		5,000	
SBIR technology insertion		2,000	
Program increase - data analysis and sharing augmentation		25,000	
Program increase - low-cost airworthy aircraft technology			
<b>21 FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEVELOPMENT</b>	<b>265,299</b>	<b>248,176</b>	<b>-17,123</b>
Information warfare excess growth		-9,188	
Surface warfare excess growth		-8,228	
Undersea warfare excess growth		-6,707	
Program increase - advanced energetics research		3,000	
Program increase - advanced lidar sensor and data processing		2,000	
<b>22 MANUFACTURING TECHNOLOGY PROGRAM</b>	<b>57,236</b>	<b>62,236</b>	<b>5,000</b>
Program increase - energetics processing		5,000	

R-1		Budget Request	Committee Recommended	Change from Request
23	WARFIGHTER PROTECTION ADVANCED TECH Program increase - bone marrow registry program Program increase - warfighter resilience and readiness	4,935	35,435 28,500 4,000	30,500
24	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS Operations analysis excess growth Program increase - naval tech bridges	47,167	50,633 -1,534 5,000	3,466
26	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY DEVELOPMENT Super swarm excess growth Manufacture of autonomous systems at scale concurrency Deployment and employment of autonomous long-range systems concurrent Manned and autonomous teams concurrency Program increase - high speed laser cooling systems	133,779	127,319 -2,994 -2,491 -3,966 -2,969 6,000	-6,460
27	UNMANNED AERIAL SYSTEM Test funds early to need	16,679	16,167 -712	-712
28	LARGE UNMANNED SURFACE VEHICLES (LUSV) LUSV integrated combat system early to need	144,846	102,846 -42,000	-42,000
31	NAVAL CONSTRUCTION FORCES New start delay	5,290	4,315 -975	-975
35	ADVANCED COMBAT SYSTEMS TECHNOLOGY Program increase - Minotaur data dissemination and interoperability	32,310	35,310 3,000	3,000
36	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES Barracuda schedule delays	58,013	53,391 -4,622	-4,622
37	SURFACE SHIP TORPEDO DEFENSE Program increase - SLQ-25 capability improvements	1,862	4,862 3,000	3,000
39	PILOT FISH Excess growth	408,087	368,087 -40,000	-40,000
44	ADVANCED SUBMARINE SYSTEM DEVELOPMENT Project 3391 SSN/SSGN survivability program excess support costs	99,782	98,174 -1,608	-1,608

R-1	Budget Request	Committee Recommended	Change from Request
<b>46 SHIP CONCEPT ADVANCED DESIGN</b>	<b>111,590</b>	<b>128,280</b>	<b>16,690</b>
Project 3376 shipboard crane systems/shipboard cargo systems early to need		-1,408	
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	
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	
<b>47 SHIP PRELIMINARY DESIGN &amp; FEASIBILITY STUDIES</b>	<b>105,957</b>	<b>48,338</b>	<b>-58,619</b>
Project 0411 DDG(X) design and analysis excess to need		-55,488	
Project 3369 historical underexecution		-3,131	
<b>48 ADVANCED NUCLEAR POWER SYSTEMS</b>	<b>203,572</b>	<b>185,490</b>	<b>-18,082</b>
Classified adjustment		-18,082	
<b>49 ADVANCED SURFACE MACHINERY SYSTEMS</b>	<b>78,122</b>	<b>66,072</b>	<b>-12,050</b>
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		-19,050	
Program increase - silicon carbide power modules		7,500	
<b>51 LITTORAL COMBAT SHIP</b>	<b>84,824</b>	<b>57,518</b>	<b>-27,406</b>
Historical underexecution		-2,406	
Lethality and survivability unjustified growth		-25,000	
<b>53 OHIO REPLACEMENT</b>	<b>286,231</b>	<b>308,731</b>	<b>12,500</b>
Program increase - composites development		7,500	
Program increase - Columbia digital environment		5,000	
<b>54 LCS MISSION MODULES</b>	<b>75,995</b>	<b>70,191</b>	<b>-5,804</b>
Mine countermeasures mission modules schedule delays		-5,804	
<b>55 AUTOMATED TEST AND RE-TEST (ATRT)</b>	<b>7,805</b>	<b>37,805</b>	<b>30,000</b>
Program increase		30,000	
<b>56 FRIGATE DEVELOPMENT</b>	<b>109,459</b>	<b>105,203</b>	<b>-4,256</b>
Test and evaluation delays		-4,256	
<b>58 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM</b>	<b>77,065</b>	<b>55,044</b>	<b>-21,021</b>
Armored reconnaissance vehicle GFE excess to need		-4,400	
Armored reconnaissance vehicle testing early to need		-4,958	
Long range unmanned surface vessel prototypes excess to need		-9,919	
Long range unmanned surface vessel testing previously funded		-1,744	



R-1	Budget Request	Committee Recommended	Change from Request
62	NAVY ENERGY PROGRAM	50,867	17,043
	Battery development and safety unjustified request	-2,957	
	Program increase - Navy energy program	15,000	
	Program increase - marine energy systems for sensors and microgrids	5,000	
64	CHALK CORAL	469,389	-110,000
	Classified adjustment	-110,000	
67	LINK PLUMERIA	517,280	-175,000
	Classified adjustment	-175,000	
71	NATO RESEARCH AND DEVELOPMENT	4,805	-1,000
	Historical underexecution	-1,000	
73	JOINT NON-LETHAL WEAPONS TESTING	28,168	-1,421
	Vessel stopping prototype schedule delays	-1,421	
74	JOINT PRECISION APPROACH AND LANDING SYSTEMS - DEM/VAL	21,950	-2,500
	LANTERNS concurrency	-2,500	
75	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	76,053	-5,750
	Project 3402 SNLWS prime contractor efforts unjustified request	-5,750	
78	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES	76,710	-7,966
	Project 2482 lionfish test assets excess to need	-4,729	
	Project 3785 razorback product development excess to need	-3,237	
79	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	69,299	10,000
	Program increase - clandestine mine neutralization technologies	10,000	
81	LARGE UNMANNED UNDERSEA VEHICLES	81,407	-6,656
	Contract award excess to need	-6,656	
83	LITTORAL AIRBORNE MCM	15,187	-3,482
	Project 2131 long lead material early to need	-3,482	
84	SURFACE MINE COUNTERMEASURES	12,607	-1,148
	Project 1235 product development previously funded	-1,148	
86	NEXT GENERATION LOGISTICS	3,071	2,000
	Program increase - hydrogen fuel cell technology	2,000	
87	FUTURE VERTICAL LIFT (MARITIME STRIKE)	8,274	-1,551
	Contract award delay	-1,551	
88	RAPID TECHNOLOGY CAPABILITY PROTOTYPE	4,386	-2,169
	Historical underexecution	-2,169	

R-1	Budget Request	Committee Recommended	Change from Request
90 ADVANCED UNDERSEA PROTOTYPING Test and evaluation excess to need	58,473	47,766 -10,707	-10,707
92 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM Miniature air launched decoy delays Advanced aerial refueling system test and evaluation early to need SLCM-N unjustified request	97,944	79,480 -12,250 -1,000 -5,234	-18,464
94 OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT Project 3343 propulsion maturation early to need Project 3343 weapon data link maturation early to need Project 3466 excess to need	127,756	87,325 -3,000 -20,000 -17,431	-40,431
96 UNMANNED SURFACE VEHICLE ENABLING CAPABILITIES USV machinery qualification unjustified request Autonomy development concurrency Unmanned communications excess growth Elevated sensors excess growth USV operations center concurrency	170,838	83,552 -47,311 -7,125 -20,350 -5,500 -7,000	-87,286
97 GROUND BASED ANTI-SHIP MISSILE (MARFORRES) PRM leader kit and resupply unjustified request	102,716	99,062 -3,654	-3,654
99 CONVENTIONAL PROMPT STRIKE (CPS) UVWL test facility outfitting early to need Development assets early to need Advanced payload module for UVWL early to need Flight subsystem missile integration testing excess to need	1,372,340	1,275,355 -43,085 -19,000 -9,900 -25,000	-96,985
101 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM MUX studies, analysis, and concept refinement unjustified growth Program increase - K-max unmanned logistics system Program increase - mobile unmanned/manned distributed lethality airborne network joint capability technology Program increase - group 3 advanced autonomous	16,204	28,830 -4,374 7,000 5,000 5,000	12,626
104 OTHER HELO DEVELOPMENT Attack and utility replacement aircraft excess studies and analysis	56,444	49,312 -7,132	-7,132
111 ADVANCED HAWKEYE DSCCG excess growth	386,860	346,860 -40,000	-40,000
113 ACOUSTIC SEARCH SENSORS Studies and analysis delays Program increase - sonobuoy capabilities research	48,066	49,067 -2,000 5,000	2,991
114 V-22A Project 3090 flight control system redesign contract award delay	107,984	101,479 -6,505	-6,505

R-1	Budget Request	Committee Recommended	Change from Request
115 AIR CREW SYSTEMS DEVELOPMENT Enhanced visual acuity schedule delays	22,746	19,636 -4,211	-4,211
116 EA-18 Historical underexecution	68,425	59,674 -8,751	-8,751
117 ELECTRONIC WARFARE DEVELOPMENT Adaptive radar countermeasures previously funded Dual band decoy previously funded	139,535	133,375 -3,218 -2,942	-6,160
118 EXECUTIVE HELO DEVELOPMENT VH-92A improvements development contract award delay VH-92A improvements test and evaluation delay	45,932	36,124 -9,723 -4,085	-9,808
119 NEXT GENERATION JAMMER (NGJ) Test and evaluation delays	243,923	236,407 -8,516	-8,516
120 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY) MIDS contract delay	234,434	228,527 -5,907	-5,907
121 NEXT GENERATION JAMMER (NGJ) INCREMENT II Primary hardware development contract delay Integration delays	248,096	230,100 -8,745 -9,251	-17,996
122 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING Aegis capability build 2023 previously funded	371,575	369,811 -1,764	-1,764
124 SMALL DIAMETER BOMB (SDB) BRU-81 contract delay	46,769	40,852 -5,917	-5,917
125 STANDARD MISSILE IMPROVEMENTS Future combat system integration land-based testing delays SM-6 Block 1B electronics unit integration early to need SM-6 system engineering and flight test support early to need	343,511	298,550 -2,500 -22,461 -20,000	-44,961
127 NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR SYSTEMS ENGINEERING Historical underexecution	48,121	43,733 -4,388	-2,388
129 ADVANCED ABOVE WATER SENSORS Shipboard passive electro-optical infrared development excess to need	77,852	48,352 -29,500	-29,500
134 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM Engineering changes/capability enhancements and backfit delays	98,556	87,520 -9,036	-9,036
136 NEW DESIGN SSN Integration efforts excess growth	503,252	453,252 -50,000	-50,000
138 SHIP CONTRACT DESIGN/LIFE FIRE T&E Historical underexecution	54,829	52,584 -2,245	-2,245
140 MINE DEVELOPMENT Encapsulated effector contract delays	76,027	65,646 -10,381	-10,381

R-1	Budget Request	Committee Recommended	Change from Request
141 LIGHTWEIGHT TORPEDO DEVELOPMENT Project 3418 prior year carryover	94,386	87,786 -6,600	-6,600
143 USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG DEV Training system development early to need Program concurrency	42,144	38,282 -1,862 -2,000	-3,862
144 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS Historical underexecution	7,375	5,946 -1,430	-1,430
146 SHIP SELF DEFENSE (DETECT & CONTROL) Historical underexecution	149,433	142,595 -6,838	-6,838
147 SHIP SELF DEFENSE (ENGAGE HARD KILL) Project 0173 MK9 CWTI replacement delay	87,862	84,488 -3,374	-3,374
148 SHIP SELF DEFENSE (ENGAGE SOFT KILL/EW) Project 3068 concurrency	69,006	65,460 -3,546	-3,546
150 MEDICAL DEVELOPMENT Program increase - autonomous aerial technology for distributed logistics Program increase - wound care research Program increase - military dental research	3,957	31,457 7,500 10,000 10,000	27,500
154 SSN(X) Excess to need	29,829	4,980 -24,849	-24,849
155 INFORMATION TECHNOLOGY DEVELOPMENT Project 9408 duplicative efforts	11,277	7,098 -4,179	-4,179
156 INFORMATION TECHNOLOGY DEVELOPMENT Navy shore manpower requirements determination unjustified request Electronic procurement system delays Transfer from line 255 Program increase - aviation innovative cyber solutions Program increase - cyber solutions in classified environments Program increase - warfare mission analysis in cyber contested environment Program increase - product lifecycle management for naval aviation Program increase - actionable analytics for reliable maintenance	243,828	265,085 -2,958 -3,936 2,151 9,000 6,000 5,000 2,000 4,000	21,257
157 ANTI-TAMPER TECHNOLOGY SUPPORT Historical underexecution	8,426	7,771 -655	-655

R-1	Budget Request	Committee Recommended	Change from Request
158 TACAMO MODERNIZATION Lack of acquisition strategy	150,592	87,712 -62,880	-62,880
161 COMMON AVIONICS Ground proximity warning system/terrain awareness warning system previously funded	80,117	57,862 -2,255	-2,255
164 UNMANNED CARRIER AVIATION (UCA) ESA excess to need Training development early to need	268,937	259,666 -4,695 -4,576	-9,271
168 MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT & DEMONSTRATION System design and development excess growth Support costs previously funded	80,709	61,978 -17,655 -1,076	-18,731
174 ISR & INFO OPERATIONS Spectral unjustified growth	136,140	133,781 -2,359	-2,359
175 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT Historical underexecution	26,318	23,768 -2,550	-2,550
177 TARGET SYSTEMS DEVELOPMENT Aerial targets historical underexecution	12,113	9,955 -2,158	-2,158
184 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT Historical underexecution Program increase - consortium for additive manufacturing research and education	93,966	97,360 -6,616 10,000	3,384
187 TEST AND EVALUATION SUPPORT Historical underexecution Program increase - future workforce innovation	429,277	418,100 -12,177 1,000	-11,177
191 MARINE CORPS PROGRAM WIDE SUPPORT Project 3009 excess growth	47,042	43,524 -3,518	-3,518
202 COOPERATIVE ENGAGEMENT CAPABILITY (CEC) FIRECAP excess growth ELEKTRA excess growth	176,486	162,676 -5,007 -8,803	-13,810
203 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT DSLE2 integration and test early to need System engineering modeling and simulation previously funded Project 3097 unjustified growth Program increase - next generation strategic inertial measurement unit	177,098	149,857 -2,100 -1,851 -29,590 6,000	-27,241
206 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT Compact rapid attack weapon concurrency	64,752	49,007 -15,745	-15,745

R-1	Budget Request	Committee Recommended	Change from Request
<b>207 F/A-18 SQUADRONS</b>	<b>189,224</b>	<b>207,224</b>	<b>18,000</b>
Program increase - beacon obsolescence issues		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		3,000	
<b>214 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT</b>	<b>56,741</b>	<b>52,741</b>	<b>-4,000</b>
Fleet training wholeness prior year carryover		-2,000	
CIAT to SEA prior year carryover		-2,000	
<b>215 ELECTRONIC WARFARE (EW) READINESS SUPPORT</b>	<b>62,006</b>	<b>48,838</b>	<b>-13,168</b>
Historical underexecution		-8,890	
Project 3426 unjustified growth		-6,478	
<b>216 ANTI-RADIATION MISSILE IMPROVEMENT</b>	<b>133,520</b>	<b>125,823</b>	<b>-7,697</b>
EMD cost growth		-7,697	
<b>218 MX-48 ADCAP</b>	<b>114,482</b>	<b>100,768</b>	<b>-13,733</b>
ABP 7 excess to need		-2,708	
TI-2 excess to need		-11,025	
<b>219 AVIATION IMPROVEMENTS</b>	<b>132,486</b>	<b>134,621</b>	<b>2,135</b>
Historical underexecution		-4,865	
Program increase - additive manufacturing for metals affordability		7,000	
<b>221 MARINE CORPS COMMUNICATIONS SYSTEMS</b>	<b>89,897</b>	<b>88,897</b>	<b>-1,000</b>
Project 3772 SIGMAN unjustified request		-1,000	
<b>223 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS</b>	<b>108,235</b>	<b>94,225</b>	<b>-14,010</b>
Project 2315 force on force training systems unjustified growth		-3,354	
Project 2503 family of expeditionary fuel systems delay		-1,071	
Project 3774 ammunition lifecycle management unjustified growth		-2,000	
Project 4002 aerial delivery and autonomous distribution entry unjustified growth		-7,585	
<b>225 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)</b>	<b>37,695</b>	<b>57,695</b>	<b>20,000</b>
Program increase - marine electronic warfare ground family of systems		20,000	
<b>234 AFLOAT NETWORKS</b>	<b>30,890</b>	<b>36,890</b>	<b>6,000</b>
Program increase - kubernetes-based geospatial analytics and visualization		6,000	
<b>237 TACTICAL UNMANNED AERIAL VEHICLES</b>	<b>9,837</b>	<b>7,338</b>	<b>-2,499</b>
TCS development and integration unjustified growth		-2,499	
<b>238 UAS INTEGRATION AND INTEROPERABILITY</b>	<b>9,797</b>	<b>5,000</b>	<b>-4,797</b>
Excess to need		-4,797	

R-1		Budget Request	Committee Recommended	Change from Request
239	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	38,800	29,749	-9,051
	DCGS-MC GEOINT concurrency		-3,016	
	DCGS-MC all-source concurrency		-6,035	
251	DEPOT MAINTENANCE (NON-IF)	35,880	35,030	-1,850
	EA-18G SLAP previously funded		-1,850	
252	MARITIME TECHNOLOGY (MARITECH)	3,329	9,329	6,000
	Program increase - advanced shipyard technologies		6,000	
255	NAVY NEXT GENERATION ENTERPRISE NETWORK (NGEN) - SOFTWARE PILOT PROGRAM	955,151	0	-955,151
	Transfer to OMN line BSIT		-778,000	
	Transfer to OP,N line 141		-176,000	
	Transfer to line 156		-2,151	

## SMALL BUSINESS INNOVATION RESEARCH PROGRAM

While the Committee notes that the Navy's Automated Test and Retest (ATRT) Small Business Innovation Research (SBIR) Phase III program has made improvements in reducing the time required to field new capabilities, it remains concerned that these programs are not properly resourced. The Committee recommendation includes a total of \$37,805,000 for the ATRT SBIR Phase III program. The Committee supports the use of the Navy's Digital Integration Support Cell and encourages the Secretary of the Navy to accelerate the development and deployment of the Office of Naval Research's Cloud to Edge ATRT System and Force Level capabilities, to include virtualized warfare systems and edge analytics on all platforms. Furthermore, the Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act which outlines an accelerated ATRT program schedule, efficiencies projected across the enterprise, ATRT demonstrated technologies, and a SBIR Phase III commercialization plan compliant with the use of the SBIR awardee when perfecting and scaling expansions, derivatives, or logical conclusions of these technologies.

## NAVY TECH BRIDGES

The Committee is encouraged by the development and maintenance of NavalX Tech Bridges which are a connected network of individuals from industry, academia, and the Department of Navy that provide access to new technologies through a variety of existing authorities. The Committee is encouraged by the collaboration and coordination with non-traditional defense sector actors as well as continued partnerships with academia and believe that these partnerships have the potential to help the Navy transform and innovate. Open dialogue is critical to ensuring that the Navy meet and exceed its requirements through innovation and agility. The Committee encourages the Secretary of the Navy to ensure that the leadership of the Tech Bridges continue to make acquisition personnel available at Tech Bridge events so that non-traditional defense sector companies and higher education institutions more fully understand the requirements of the Navy.

## UNDERGROUND FUEL STORAGE TANK SAFETY RESEARCH

The Committee remains concerned about the safety of underground fuel storage tanks commonly used on military installations by the Department of Defense. The Committee encourages the Secretary of the Navy to conduct additional research on the safety of underground fuel storage tanks to mitigate any risks to drinking water supplies for military bases and surrounding communities. Research areas should focus on corrosion evaluation, automated inspection, technical support for the development and assessment of double-wall structures and their equivalents, early leak detection, and x-ray photoelectron spectroscopy to support detailed surface analysis.



## TALENT AND TECHNOLOGY FOR NAVY POWER AND ENERGY SYSTEMS

The Committee supports the Navy's continued investment in next-generation integrated power and energy systems for future surface combatant ships. However, technology and workforce gaps have prevented the Navy from optimally integrating, operating, and maintaining this important research. The Committee recommendation includes an increase of \$10,500,000 for workforce talent and technology development efforts in support of Navy integrated power and energy systems.

### INFRARED TELESCOPE TECHNOLOGY

The Committee recognizes the importance of infrared telescope technology for northern sky surveys in the short-wave infrared H and K bands, astrophysics observations, Earth orbital debris, and space traffic management research. The Committee encourages the Secretary of the Navy to prioritize research for infrared telescope technology because the collection of critical stellar data supports future ground- and space-based defense systems.

### ULTRA COMPACT HEAT EXCHANGERS

The Committee believes that the Department of the Navy would benefit from using ultra-compact heat exchangers in vehicle fleets and power systems in order to store greater quantities of heat while using less space and weight compared to existing technology. The Committee encourages the Secretary of the Navy to research ultra-compact heat exchangers for use in future vehicle fleets and power systems.

### LIGHTWEIGHT ANTI-CORROSION NANOTECHNOLOGY COATING ENHANCEMENT

The Committee remains concerned about the high cost of corrosion to Department of Defense assets. The Services, particularly the Department of the Navy, face complex threats in the Indo-Pacific region that require military equipment and infrastructure to be resilient and have maximum operational availability. The Committee encourages the Secretary of the Navy to research lightweight, nanotechnology-based technologies that provide high corrosion resistance which will decrease the cost of corrosion and increase operational availability of military equipment and infrastructure.

### STERN TUBE SEALS

The Committee remains concerned by data indicating a higher than desired failure rate of stern tube seals on some classes of Navy ships. Premature, partial, or complete failure of these stern tube seals may increase procurement costs, negatively affect combat readiness, and disrupt the cadence of major operation and maintenance intervals. The Committee encourages the Secretary of the Navy to partner with the appropriate shipyards and industry partners to design, prototype, and test new seals that are more durable, safe, and cost-effective. New stern tube seal designs should not require modifications to the stern tubes of existing classes of

ships to ensure a cost-effective approach to developing and evaluating modernized seals.

#### COASTAL ENVIRONMENTAL RESEARCH

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

#### ACOUSTIC MONITORING FOR THE PROTECTION OF MARINE MAMMALS

The Committee is concerned by the level of incidental takes of marine mammals in the Navy's Northwest Testing and Training Activities plan. The Committee encourages the Secretary of the Navy to use passive acoustic monitoring to detect southern resident orcas and other marine mammals during all active sonar training and testing exercises. The Committee also encourages the Secretary of the Navy to update the Navy's mitigation measures for testing and training activities to include, but not be limited to, expanding the no-use range of sonar to 0.5 nautical miles from any orcas or other marine mammals, incorporate a real-time whale alert system and manned spotter systems onboard Navy vessels, and establish seasonal limitations on the use of sonars in traditional whale and other marine mammal foraging areas.

#### OVERSIGHT OF SMALL BUSINESS INNOVATION RESEARCH PROJECTS

The Committee is concerned that there may be conflicts of interest in the oversight of Small Business Innovation Research (SBIR) projects at Navy Warfare Centers. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that details a plan to mitigate professional and organizational conflicts of interest in the oversight of SBIR Projects by Navy Warfare Centers that may have the same or similar technology development activities or objectives. The report shall include a plan for the protection of SBIR awardees' intellectual property and commercialization opportunities from Warfare Centers that have or may have competing activities and a plan for establishing partnership arrangements for Warfare Centers to assist SBIR awardees with the commercialization of their projects in the defense sector.

#### ELECTROMAGNETIC RAILGUN PROGRAM

The Committee notes that the fiscal year 2022 budget request does not include funding for the electromagnetic railgun program after the Navy has invested in the program for several years. The Committee recognizes that the development of a functional railgun has the potential to provide the Navy with a safe, effective, and

significantly less expensive offensive capability than traditional legacy weapons systems. The Committee directs the Secretary of the Navy to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that details the status of the electromagnetic railgun program. The report shall include, but not be limited to, the status of the development and testing of the program, the amount of funding invested to date, the funding level necessary to achieve a fully functional system in the future, and the plan to incorporate this program onto Navy ships.

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

Fiscal year 2022 budget request .....	\$39,184,328,000
Committee recommendation .....	39,062,352,000
Change from budget request .....	- 121,976,000

The Committee recommends an appropriation of \$39,062,352,000 for Research, Development, Test and Evaluation, Air Force which will provide the following program in fiscal year 2022:

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE			
1 BASIC RESEARCH			
DEFENSE RESEARCH SCIENCES	328,303	328,303	---
2 UNIVERSITY RESEARCH INITIATIVES	162,403	162,403	---
TOTAL, BASIC RESEARCH	490,706	490,706	---
4 APPLIED RESEARCH			
FUTURE AF CAPABILITIES APPLIED RESEARCH	79,901	79,901	---
5 MATERIALS	113,460	158,460	+55,000
6 AEROSPACE VEHICLE TECHNOLOGIES	163,032	173,032	+10,000
7 HUMAN EFFECTIVENESS APPLIED RESEARCH	136,273	145,863	+9,590
8 AEROSPACE PROPULSION	174,683	190,683	+16,000
9 AEROSPACE SENSORS	193,514	208,918	+15,404
11 SCIENCE AND TECHNOLOGY MANAGEMENT - MAJOR HEADQUARTERS	8,891	8,891	---
12 CONVENTIONAL MUNITIONS	151,757	151,757	---
13 DIRECTED ENERGY TECHNOLOGY	121,869	116,465	-5,404
14 DOMINANT INFORMATION SCIENCES AND METHODS	169,110	169,110	---
TOTAL, APPLIED RESEARCH	1,312,490	1,413,080	+100,590
17 ADVANCED TECHNOLOGY DEVELOPMENT			
FUTURE AF INTEGRATED TECHNOLOGY DEMOS	131,643	131,643	---
18 ADVANCED MATERIALS FOR WEAPON SYSTEMS	31,905	46,576	+14,673
19 SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T)	21,057	19,112	-1,945
20 ADVANCED AEROSPACE SENSORS	44,730	44,450	-280
21 AEROSPACE TECHNOLOGY DEV/DEMO	70,486	85,486	+15,000
22 AEROSPACE PROPULSION AND POWER TECHNOLOGY	75,273	85,273	+10,000
23 ELECTRONIC COMBAT TECHNOLOGY	46,591	44,938	-1,653
26 HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT	24,589	23,459	-1,130
27 CONVENTIONAL WEAPONS TECHNOLOGY	157,423	155,308	-2,117
28 ADVANCED WEAPONS TECHNOLOGY	28,258	31,855	+3,597
29 MANUFACTURING TECHNOLOGY PROGRAM	45,259	158,200	+112,941
30 BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION	56,772	63,948	+7,176
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	733,986	890,248	+156,262

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
31 ADVANCED COMPONENT DEVELOPMENT	5,795	5,795	---
32 INTELLIGENCE ADVANCED DEVELOPMENT	21,939	21,939	---
33 COMBAT IDENTIFICATION TECHNOLOGY	4,114	4,114	---
34 NATO RESEARCH AND DEVELOPMENT	49,621	49,621	---
36 INTERCONTINENTAL BALLISTIC MISSILE - DEM/VAL	6,900	6,900	---
37 NCJ ADVANCED CONCEPTS	986	3,855	+2,869
38 AIR FORCE WEATHER SERVICES RESEARCH	203,849	203,849	---
39 ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS)	123,712	180,712	+57,000
40 ADVANCED ENGINE DEVELOPMENT	82,438	48,438	-34,000
41 ARCHITECTURE INITIATIVES	2,872,624	2,872,624	---
42 LONG RANGE STRIKE	10,820	10,820	---
43 DIRECTED ENERGY PROTOTYPING	438,378	---	-438,378
43A HYPERSONICS PROTOTYPING	---	---	---
HYPERSONICS PROTOTYPING - AIR LAUNCHED RAPID RESPONSE WEAPON (ARRW)	---	238,262	+238,262
43B HYPERSONICS PROTOTYPING - HYPERSONIC ATTACK CRUISE MISSILE (HACH)	---	190,116	+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	-37,465
47 TECHNOLOGY TRANSFER	15,768	15,768	---
48 HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM	15,888	15,888	---
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	353,545	+10,000
52 GROUND BASED STRATEGIC DETERRENT	2,553,541	2,531,602	-21,939
54 NEXT GENERATION AIR DOMINANCE	1,524,887	1,524,887	---
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 ENVIRONNMENTS	16,420	16,420	---
62 CYBER OPERATIONS TECHNOLOGY SUPPORT	242,499	242,499	---
63 ENABLED CYBER ACTIVITIES	16,578	16,578	---
66 CONTRACTING INFORMATION TECHNOLOGY SYSTEM	20,343	20,343	---
TOTAL, ADVANCED COMPONENT DEVELOPMENT	8,937,224	8,903,689	-33,535

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
78 SYSTEM DEVELOPMENT & DEMONSTRATION FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS	23,499	18,499	-5,000
79 PNT RESILIENCY, MODS AND IMPROVEMENTS	187,520	187,520	---
80 NUCLEAR WEAPONS SUPPORT	30,050	30,050	---
81 ELECTRONIC WARFARE DEVELOPMENT	2,110	2,110	---
82 TACTICAL DATA NETWORKS ENTERPRISE	169,836	159,836	-10,000
83 PHYSICAL SECURITY EQUIPMENT	8,469	8,469	---
85 ARMAMENT/ORDNANCE DEVELOPMENT	9,047	9,047	---
86 SUBHUNITIONS	2,954	2,954	---
87 AGILE COMBAT SUPPORT	16,603	19,938	+3,335
89 LIFE SUPPORT SYSTEMS	25,437	25,437	---
90 COMBAT TRAINING RANGES	23,980	23,980	---
92 LONG RANGE STANDOFF WEAPON	609,042	581,042	-28,000
93 ICBM FUZE MODERNIZATION	129,709	129,709	---
95 OPEN ARCHITECTURE MANAGEMENT	37,109	37,109	---
98 KC-46	1	---	-1
97 ADVANCED PILOT TRAINING	188,898	188,898	---
98 COMBAT RESCUE HELICOPTER HH-60W	66,355	30,506	-35,849
101 F-15 EPWSS	112,012	112,012	---
102 STAND IN ATTACK WEAPON	166,570	166,570	---
103 FULL COMBAT MISSION TRAINING	7,064	12,064	+5,000
105 KC-46A TANKER SQUADRONS	73,458	66,758	-6,700
107 VC-25B	680,665	619,065	-61,600
108 AUTOMATED TEST SYSTEMS	15,445	15,445	---
109 TRAINING DEVELOPMENTS	4,482	2,482	-2,000
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	2,570,315	2,429,500	-140,815
MANAGEMENT SUPPORT			
124 THREAT SIMULATOR DEVELOPMENT	41,909	41,909	---
125 MAJOR T&E INVESTMENT	130,766	130,766	---
126 RAND PROJECT AIR FORCE	36,017	36,017	---
128 INITIAL OPERATIONAL TEST & EVALUATION	12,582	12,582	---
129 TEST AND EVALUATION SUPPORT	811,032	811,032	---
131 ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS	243,796	243,796	---
132 ACQ WORKFORCE- GLOBAL REACH	435,930	435,930	---
133 ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS	435,274	435,274	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
135. ACQ WORKFORCE- CAPABILITY INTEGRATION	243,806	243,806	---
136. ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY	103,041	103,041	---
137. ACQ WORKFORCE- NUCLEAR SYSTEMS	226,055	226,055	---
138. MANAGEMENT HQ - R&D	4,079	4,079	---
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	85,799	---
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	+10,000
145. ENTERPRISE INFORMATION SERVICES (EIS)	28,720	28,720	---
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, ROT&E MANAGEMENT SUPPORT	3,015,788	3,025,788	+10,000
OPERATIONAL SYSTEMS DEVELOPMENT			
157. SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	5,509	8,589	+3,080
158. WIDE AREA SURVEILLANCE	2,760	2,760	---
160. F-35 C2D2	985,404	985,404	---
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	660,811	-55,000
168. AIR-LAUNCHED CRUISE MISSILE (ALCM)	453	453	---
169. B-1B SQUADRONS	29,127	29,127	---
170. B-2 SQUADRONS	144,047	131,647	-12,400
171. MINUTEMAN SQUADRONS	113,622	113,622	---
172. WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	15,202	15,202	---
174. ICBM REENTRY VEHICLES	98,313	96,313	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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	42,300	---
180 VEHICLES AND SUPPORT EQUIPMENT - GENERAL	5,889	5,889	---
181 MQ-9 UAV	85,135	84,121	-1,014
182 JOINT COUNTER ROICED ELECTRONIC WARFARE	3,111	3,111	---
183 MULTI-PLATFORM ELECTRONIC WARFARE EQUIPMENT	36,607	36,607	---
184 A-10 SQUADRONS	39,224	39,224	---
185 F-16 SQUADRONS	224,573	229,573	+5,000
186 F-15E SQUADRONS	239,616	239,616	---
187 MANNED DESTRUCTIVE SUPPRESSION	15,855	15,855	---
188 F-22 SQUADRONS	647,296	647,296	---
189 F-35 SQUADRONS	69,365	69,365	---
190 F-15EX	118,126	118,126	---
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	+12,000
198 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)	117,325	117,325	---
199 SMALL DIAMETER BOMB (SDB)	27,109	27,109	---
200 AIR AND SPACE OPERATIONS CENTER (AOC)	3	---	-3
201 CONTROL AND REPORTING CENTER (CRC)	9,875	9,875	---
202 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)	171,014	171,014	---
203 TACTICAL AIRBORNE CONTROL SYSTEMS AFSPEWAR - TACP	4,598	4,598	---
205 COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	21,863	17,863	-4,000
206 THEATER BATTLE MANAGEMENT (TBM) C41	7,905	7,905	---
207 ELECTRONIC WARFARE INTEGRATED REPROGRAMMING (EWIR)	15,000	15,000	---
208 TACTICAL AIR CONTROL PARTY--MOD	13,081	13,081	---
209 DCAPEs	4,305	4,305	---
210 AIR FORCE CALIBRATION PROGRAMS	1,984	1,984	---
211 AIRBASE AIR DEFENSE SYSTEMS (ABADS)	7,392	7,392	---



RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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 (BACH).....	32,008	32,008	---
217 DISTRIBUTED TRAINING AND EXERCISES.....	4,007	4,007	---
218 MISSION PLANNING SYSTEMS.....	92,557	92,557	---
219 TACTICAL DECEPTION.....	489	7,338	+6,849
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	101,893	---
228 INTEL DATA APPLICATIONS.....	493	493	---
229 GEOBASE.....	2,782	2,782	---
231 CYBER SECURITY INTELLIGENCE SUPPORT.....	5,224	5,224	---
235 AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS.....	2,463	2,463	---
239 E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC).....	28,331	28,331	---
240 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	20,700	58,165	+37,465
242 INFORMATION SYSTEMS SECURITY PROGRAM.....	8,032	8,032	---
243 GLOBAL FORCE MANAGEMENT - DATA INITIATIVE.....	452	452	---
244 ALL DOMAIN COMMON PLATFORM.....	84,000	84,000	---
248 AIRBORNE SIGINT ENTERPRISE.....	97,546	93,546	-4,000
247 COMMERCIAL ECONOMIC ANALYSIS.....	3,770	3,770	---
251 CCMO INTELLIGENCE INFORMATION TECHNOLOGY.....	1,663	1,663	---
252 ISR MODERNIZATION & AUTOMATION DVMT (IMAO).....	18,888	15,888	-3,000
253 GLOBAL AIR TRAFFIC MANAGEMENT (GATH).....	4,672	4,672	---
254 CYBER SECURITY INITIATIVE.....	290	290	---
255 WEATHER SERVICE.....	28,228	39,228	+11,000
258 AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC)...	8,749	10,749	+2,000
257 AERIAL TARGETS.....	1,528	1,528	---
259 SECURITY AND INVESTIGATIVE ACTIVITIES.....	223	223	---
260 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	8,733	8,733	---
264 INTEGRATED BROADCAST SERVICE.....	21,335	21,335	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
265 DRAGON U-2.....	17,146	35,846	+18,700
267 AIRBORNE RECONNAISSANCE SYSTEMS.....	71,791	108,036	+36,245
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).....	2,587	2,587	---
277 INTELLIGENCE MISSION DATA (IMD).....	6,169	6,169	---
278 C-130 AIRLIFT SQUADRON.....	9,752	12,552	+2,800
279 C-5 AIRLIFT SQUADRONS.....	17,507	17,507	---
280 C-17 AIRCRAFT.....	16,360	16,360	---
281 C-130J PROGRAM.....	14,112	14,112	---
282 LARGE AIRCRAFT IN COUNTERMEASURES (LAIRCM).....	5,540	5,540	---
283 KC-135S.....	3,564	3,564	---
285 CV-22.....	17,189	17,189	---
286 SPECIAL TACTICS / COMBAT CONTROL.....	6,640	6,640	---
288 MAINTENANCE, REPAIR & OVERHAUL SYSTEM.....	26,921	26,921	---
289 LOGISTICS INFORMATION TECHNOLOGY (LOGIT).....	7,071	7,071	---
291 OTHER FLIGHT TRAINING.....	1,989	5,989	+4,000
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	---
301 SERVICE SUPPORT TO SPACECOM ACTIVITIES.....	6,737	6,737	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	5,836,568	5,898,290	+61,722

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
9999 CLASSIFIED PROGRAMS.....	15,868,973	15,592,773	-276,200
STRATEGIC MISSION PLANNING AND EXECUTION SYSTEM - SOFTWARE PILOT PROGRAM.....	96,100	98,100	---
AIR & SPACE OPERATIONS CENTER (AOC) - SOFTWARE PILOT PROGRAM.....	186,915	186,915	---
DEFENSE ENTERPRISE ACCOUNTING AND MANAGEMENT SYSTEM (DEAMS) - SOFTWARE PILOT PRO.....	135,283	135,283	---
=====			
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE.....	39,184,328	39,082,352	-121,976
=====			

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

R-1	Budget Request	Committee Recommended	Change from Request
<b>5 MATERIALS</b>	<b>113,460</b>	<b>168,460</b>	<b>55,000</b>
Program increase - classified 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	
<b>6 AEROSPACE VEHICLE TECHNOLOGIES</b>	<b>163,032</b>	<b>173,032</b>	<b>10,000</b>
Program increase - educational partnership agreement for secure UAV technologies		10,000	
<b>7 HUMAN EFFECTIVENESS APPLIED RESEARCH</b>	<b>136,273</b>	<b>145,863</b>	<b>9,590</b>
Program increase - F-35 helmet mounted display system tech refresh and weight reduction		9,590	
<b>8 AEROSPACE PROPULSION</b>	<b>174,683</b>	<b>190,683</b>	<b>16,000</b>
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	
<b>9 AEROSPACE SENSORS</b>	<b>193,514</b>	<b>208,918</b>	<b>15,404</b>
Air Force requested transfer from line 13		5,404	
Program increase - exploitation detection for flexible combat avionics		5,000	
Program increase - low cost sensors for UAVs		5,000	
<b>13 DIRECTED ENERGY TECHNOLOGY</b>	<b>121,869</b>	<b>116,465</b>	<b>-5,404</b>
Air Force requested transfer to line 9		-5,404	
<b>18 ADVANCED MATERIALS FOR WEAPON SYSTEMS</b>	<b>31,905</b>	<b>46,578</b>	<b>14,673</b>
Transformational technology development lack of justification		-327	
Program increase - metals affordability research		10,000	
Program increase - polymer printing technology for additive manufacturing		5,000	
<b>19 SUSTAINMENT S&amp;T</b>	<b>21,057</b>	<b>19,112</b>	<b>-1,945</b>
Transformational technology development lack of justification		-1,945	
<b>20 ADVANCED AEROSPACE SENSORS</b>	<b>44,730</b>	<b>44,450</b>	<b>-280</b>
Transformational technology development lack of justification		-1,014	
Air Force requested transfer from RDTE,SF line 2		734	

R-1		Budget Request	Committee Recommended	Change from Request
21	<b>AEROSPACE TECHNOLOGY DEV/DEMO</b> Program increase - heavy fuel engine hybrid electric ducted fan advanced propulsion	70,486	85,486 15,000	15,000
22	<b>AEROSPACE PROPULSION &amp; POWER TECHNOLOGY</b> Program increase - domestic manufacturing of solid state power controllers	75,273	85,273 10,000	10,000
23	<b>ELECTRONIC COMBAT TECHNOLOGY</b> 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	-1,653
26	<b>HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY</b> 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	-1,130
27	<b>CONVENTIONAL WEAPONS TECHNOLOGY</b> Transformational component lack of justification	157,423	165,306 -2,117	-2,117
28	<b>ADVANCED WEAPONS TECHNOLOGY</b> 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 -186 -1,216 5,000	3,597

R-1	Budget Request	Committee Recommended	Change from Request
<b>29 MANUFACTURING TECHNOLOGY PROGRAM</b>	<b>45,259</b>	<b>158,209</b>	<b>112,941</b>
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 - laser metal deposition powder for turbine engine component restoration		13,000	
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 - zero trust environment for semiconductor technology		10,000	
<b>30 BATTLESPACE KNOWLEDGE DEV/DEMO</b>	<b>56,772</b>	<b>63,948</b>	<b>7,176</b>
Transformational technology development - battlespace development and demonstration lack of justification		-5,001	
Transformational technology development - cyber battlespace development and demonstration lack of justification		-1,013	
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	
<b>37 AIR FORCE WEATHER SERVICES RESEARCH</b>	<b>986</b>	<b>3,855</b>	<b>2,869</b>
Program increase - drought warning system		2,869	
<b>39 ADVANCED ENGINE DEVELOPMENT</b>	<b>123,712</b>	<b>180,712</b>	<b>57,000</b>
Program increase - unfunded priority for AETP		57,000	
<b>40 ARCHITECTURE INITIATIVES</b>	<b>82,438</b>	<b>48,438</b>	<b>-34,000</b>
Architecture design and integration excess to need		-4,000	
Architecture demonstration and evaluation excess to need		-30,000	
<b>43 HYPERSONICS PROTOTYPING</b>	<b>439,378</b>	<b>0</b>	<b>-439,378</b>
Transfer ARRW funding to new line 43A		-238,262	
Transfer HACM funding to new line 43B		-200,116	

R-1	Budget Request	Committee Recommended	Change from Request
HYPERSONICS PROTOTYPING - AIR LAUNCHED RAPID			
43A RESPONSE WEAPON (ARRW)	0	238,262	238,262
Transfer from line 43 for greater transparency and budget discipline		238,262	
HYPERSONICS PROTOTYPING - HYPERSONIC ATTACK			
43B CRUISE MISSILE (HACM)	0	190,116	190,116
Transfer from line 43 for greater transparency and budget discipline		200,116	
HACM ahead of need		-10,000	
46 SURVIVABLE AIRBORNE OPERATIONS CENTER	133,253	95,788	-37,465
Air Force requested transfer to line 240 for common VLF/LF receiver incr 2		-37,465	
51 TECH TRANSITION PROGRAM	343,545	353,545	10,000
Program increase - additive metals manufacturing		10,000	
52 GROUND BASED STRATEGIC DETERRENT	2,553,541	2,531,602	-21,939
Projected carryover for EMD		-21,939	
78 FUTURE ADVANCED WEAPON ANALYSIS	23,499	18,499	-5,000
Underexecution		-5,000	
82 TACTICAL DATA NETWORKS ENTERPRISE	169,836	159,836	-10,000
Underexecution		-10,000	
87 AGILE COMBAT SUPPORT	16,603	19,938	3,335
Contract award delays		-1,565	
Program increase - airfield sustainment and damage recovery technologies		5,000	
92 LONG RANGE STANDOFF WEAPON	609,042	581,042	-28,000
Rephase funds for EMD contract award		-28,000	
96 KC-46	1	0	-1
Programming error		-1	
98 HH-60W (CRH)	66,355	30,508	-35,849
Capability upgrades and modernization funding ahead of need		-35,849	
103 FULL COMBAT MISSION TRAINING	7,054	12,064	5,000
Program increase - airborne augmented reality for pilot training		5,000	
105 KC-46 TANKER SQUADRONS	73,458	66,758	-6,700
Underexecution		-6,700	
107 VC-25B	680,665	619,065	-61,600
Program delays		-61,600	
109 TRAINING DEVELOPMENTS	4,482	2,482	-2,000
Underexecution		-2,000	

R-1	Budget Request	Committee Recommended	Change from Request
144 C4 - STRATCOM	25,340	35,340	10,000
Program increase - NC3 rapid engineering architecture collaboration hub		10,000	
157 SUFT	5,509	8,589	3,080
Program increase - PRIME desktop trainer		3,080	
167 B-52 SQUADRONS	715,811	660,811	-55,000
CERP rapid prototyping materiel contract delay		-55,000	
170 B-2 SQUADRONS	144,047	131,647	-12,400
B-2 display modernization carryover		-12,400	
181 MQ-9	85,135	84,121	-1,014
Program protection technology insertion ahead of need		-1,014	
185 F-16 SQUADRONS	224,573	229,573	5,000
Program increase - lithium battery replacement for F-16 hydrazine emergency power units		5,000	
197 ENGINE CIP	103,715	115,715	12,000
Program increase - F135		12,000	
200 AIR AND SPACE OPERATIONS CENTER	3	0	-3
Programming error		-3	
205 COMBAT AIR INTELLIGENCE SYSTEM	21,863	17,863	-4,000
Underexecution		-4,000	
219 TACTICAL DECEPTION	489	7,338	6,849
Program increase - radar modeling		6,849	
240 MEECN	20,700	58,165	37,465
Air Force requested transfer from line 46 for common VLF/LF receiver Incr 2		37,465	
246 AIRBORNE SIGINT ENTERPRISE	97,546	93,546	-4,000
Special projects carryover		-4,000	
252 ISR MODERNIZATION & AUTOMATION DEVELOPMENT	18,888	15,888	-3,000
Underexecution		-3,000	
255 WEATHER SERVICE	26,228	39,228	13,000
Program increase - commercial weather data pilot		10,000	
Program increase - atmospheric rivers research		3,000	
256 ATCALs	8,749	10,749	2,000
Program increase - wind turbine impact mitigation radar certification		2,000	
265 U-2	17,145	35,846	18,700
Program increase - unfunded priority for avionics tech refresh and sensor on-board processor		18,700	



R-1	Budget Request	Committee Recommended	Change from Request
267 AIRBORNE RECONNAISSANCE SYSTEMS	71,791	108,035	36,245
Program Increase - wide area motion imagery		12,500	
Program Increase - unfunded priority for ASARS		23,745	
278 C-130 SQUADRONS	9,752	12,552	2,800
Program Increase - C-130H Infrared suppression		2,800	
291 OTHER FLIGHT TRAINING	1,999	5,999	4,000
Program Increase - aircraft transition optimization support		4,000	
999 CLASSIFIED PROGRAMS	15,868,973	15,592,773	-276,200
Classified adjustment		-276,200	

## HYPERSONICS PROTOTYPING

The budget request includes \$438,378,000 for hypersonics prototyping, comprising \$238,262,000 for the continuation of the Air-Launched Rapid Response Weapon (ARRW) and \$200,116,000 for the new Hypersonic Attack Cruise Missile (HACM). The Committee recommendation includes full funding for ARRW and \$190,116,000 for HACM, but also takes action to increase transparency and oversight. The Committee previously has expressed concern with the Air Force's budgeting practices for hypersonics prototyping. The budget request resumes the funding of simultaneous prototyping efforts within a single budget line following last year's termination of the Hypersonic Conventional Strike Weapon (HCSW) effort at the critical design review. The funds made available by the termination of HCSW were critical to keeping the ARRW effort on track and adequately funded. In order to ensure transparency and budget discipline, the Committee separates the funding for hypersonics prototyping into two new lines, one for the ARRW effort and one for the HACM effort. This increases the transparency of funding and subjects both efforts to normal prior approval reprogramming requirements.

The ARRW effort will transition to a rapid fielding program in this budget request. Funding for the rapid fielding of ARRW is addressed under the heading "Missile Procurement, Air Force" in this report. The Committee understands that the Air Force intends to decide on proceeding with procurement upon conclusion of the first of three all-up round flight tests. The Committee notes and commends the efforts by the Air Force to keep the Committee informed of the progress of ARRW flight testing. The Committee directs the Secretary of the Air Force to notify the congressional defense committees not later than 30 days following the initiation of the first all-up round test on both the result of that test and whether the result supports a decision to initiate procurement of the first lot of ARRW missiles.

## GROUND BASED STRATEGIC DETERRENT

The Committee recommendation includes \$2,531,602,000 for the Ground Based Strategic Deterrent (GBSD) program, a reduction of \$21,939,000 from the budget request. This recommendation supports the continuation of GBSD. The Department of Defense has stressed the "just in time" nature of GBSD to replace the aging Minuteman III weapon system, but the Committee wishes to stress the equivalent necessity of controlling costs. The Committee notes that the largest proportion of not just cost, but cost uncertainty, in the acquisition of GBSD lies in the procurement phase. Cost growth beyond affordability targets can drive perturbations in the schedule as surely as any other facet of the program. Given that the program has achieved both Milestone B and awarded a development contract with options for initial lots of production, the Committee directs the Secretary of the Air Force to make available to the congressional defense committees a quarterly brief on the progress of the GBSD program. This brief shall, at minimum, provide consistent metrics to track cost and schedule performance by the prime contractor and its suppliers, the retirement of technical

risk, software development, and progress on efforts to support the recapitalization of launch facilities, launch control centers, and other supporting infrastructure. The first such briefing shall be made available by October 31, 2021, and thereafter shall be made available not later than 30 days after the close of each fiscal quarter.

#### LONG RANGE STANDOFF WEAPON

The Committee recommendation includes \$581,042,000 for the Long Range Standoff Weapon (LRSO) program, a reduction of \$28,000,000 from the budget request. The Committee notes that the LRSO program achieved a Milestone B decision in May 2021 and is poised to award a contract for the engineering and manufacturing development phase before the end of fiscal year 2021. The Committee directs the Secretary of the Air Force to make available to the congressional defense committees a quarterly brief on the progress of the LRSO program. This brief shall, at minimum, provide consistent metrics to track cost and schedule performance by the prime contractor and its suppliers, the retirement of technical risk, and reliability and maintainability metrics. The first such briefing shall be made available by October 31, 2021, and thereafter shall be made available not later than 30 days after the close of each fiscal quarter.

#### MAINTENANCE, REPAIR, AND OVERHAUL TECHNOLOGIES

The Committee is concerned that technologies for advanced maintenance, repair, and overhaul (MRO) processes are not keeping pace with the rapid pace of technology development for weapon systems. As the Air Force increases the development and procurement of critical platforms, such as the F-35A, the Committee believes that it should also ensure aircraft and other systems achieve the highest readiness rates possible. The Committee encourages the Secretary of the Air Force to make investment in advanced MRO process technologies and capabilities a high priority for the manufacturing technology program.

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

Fiscal year 2022 budget request .....	\$11,266,387,000
Committee recommendation .....	10,774,318,000
Change from budget request .....	-492,069,000

The Committee recommends an appropriation of \$10,774,318,000 for Research, Development, Test and Evaluation, Space Force which will provide the following program in fiscal year 2022:

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE			
1 APPLIED RESEARCH			
SPACE TECHNOLOGY.....	175,796	190,696	+14,900
TOTAL, APPLIED RESEARCH.....	175,796	190,696	+14,900
2 ADVANCED TECHNOLOGY DEVELOPMENT			
SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEMO.....	76,853	82,584	+5,931
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	76,853	82,584	+5,931
COMPONENT DEVELOPMENT & PROTOTYPES			
3 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)			
(SPACE).....	434,194	434,194	---
4 EO/IR WEATHER SYSTEMS.....	182,274	182,274	---
5 SPACE SYSTEM SUPPORT.....	37,000	---	-37,000
6 WEATHER SYSTEM FOLLOW-ON.....	81,521	81,521	---
7 SPACE SITUATION AWARENESS SYSTEM.....	123,262	119,262	-4,000
8 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT).....	101,851	106,851	+5,000
9 SPACE CONTROL TECHNOLOGY.....	32,931	35,931	+3,000
10 SPACE SECURITY AND DEFENSE PROGRAMS (SSDP).....	56,546	66,546	+10,000
11 PROTECTED TACTICAL ENTERPRISE SERVICE (PTES).....	100,320	100,320	---
12 PROTECTED TACTICAL SERVICE (PTS).....	243,285	243,285	---
13 EVOLVED STRATEGIC SATCOM (ESS).....	160,056	160,056	---
14 SPACE RAPID CAPABILITIES OFFICE.....	88,193	51,193	-15,000
TOTAL, COMPONENT DEVELOPMENT & PROTOTYPES.....	1,579,433	1,541,433	-38,000
SYSTEM DEVELOPMENT & DEMONSTRATION			
15 GPS III FOLLOW-ON (GPS IIF).....	264,265	264,265	---
16 SPACE SITUATION AWARENESS OPERATIONS.....	58,279	52,279	-4,000
17 COUNTERSPACE SYSTEMS.....	38,063	31,563	-6,500
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	28,218	---
21 POLAR MILSATCOM (SPACE).....	127,870	127,870	---
22 NEXT GENERATION OPIR.....	2,451,256	2,451,256	---
23 COMMERCIAL SATCOM (COMSATCOM) INTEGRATION.....	23,400	23,400	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
24 NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE) - EMD..	221,510	184,610	-36,900
TOTAL, SYSTEM DEVELOPMENT & DEMONSTRATION.....	3,339,325	3,291,925	-47,400
MANAGEMENT SUPPORT			
25 SPACE TEST AND TRAINING RANGE DEVELOPMENT.....	19,319	19,319	---
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	71,503	---
29 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE).....	17,769	17,769	---
30 TACTICALLY RESPONSIVE LAUNCH.....	---	5,000	+5,000
31 SPACE TEST PROGRAM (STP).....	20,881	20,881	---
TOTAL, RDT&E MANAGEMENT SUPPORT.....	355,642	360,642	+5,000
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	107,012	-5,000
37 SATELLITE CONTROL NETWORK (SPACE).....	36,810	36,810	---
38 NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL SEGMENTS).....	1,968	1,968	---
39 SPACE AND MISSILE TEST EVALUATION CENTER.....	1,699	1,699	---
40 SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT.....	18,054	13,054	-5,000
41 SPACELIFT RANGE SYSTEM (SPACE).....	11,115	16,115	+5,000
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 NMIC - TW/AA SYSTEM.....	9,858	9,858	---
47 NUDET DETECTION SYSTEM (SPACE).....	45,887	33,887	-12,000
48 SPACE SITUATION AWARENESS OPERATIONS.....	64,763	59,763	-5,000
49 GLOBAL POSITIONING SYSTEM III - OPERATIONAL CONTROL SEGMENT.....	413,786	413,786	---
53 ENTERPRISE GROUND SERVICES.....	191,713	191,713	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,110,200	1,098,200	-22,000

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
999 CLASSIFIED PROGRAMS.....	4,474,809	4,064,309	-410,500
54 JPSOC MISSION SYSTEM.....	154,529	154,529	- - -
=====			
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, SPACE FORCE.....	11,266,387	10,774,318	-492,069
=====			

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

<b>R-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>1 SPACE TECHNOLOGY</b>	<b>175,786</b>	<b>190,696</b>	<b>14,900</b>
Inadequate justification		-15,000	
Program increase -- radiation hardened microprocessor		8,900	
Program increase -- lithium-sulfur battery		3,000	
Program increase -- thin-film photovoltaic energy		3,000	
Program increase -- multi-mission distributed antenna technology		10,000	
Program increase -- hybrid space architecture		5,000	
<b>2 SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEM</b>	<b>76,653</b>	<b>82,584</b>	<b>5,931</b>
Program increase -- multi-mode propulsion		5,000	
Project increase -- core manipulator joint		1,665	
Air Force requested transfer to RDTE,AF line 20		-734	
<b>6 SPACE SYSTEM SUPPORT</b>	<b>37,000</b>	<b>0</b>	<b>-37,000</b>
Program decrease		-27,000	
Transfer to line 10		-10,000	
<b>7 SPACE SITUATION AWARENESS SYSTEMS</b>	<b>123,262</b>	<b>119,262</b>	<b>-4,000</b>
Underexecution		-4,000	
<b>8 SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)</b>	<b>101,851</b>	<b>106,851</b>	<b>5,000</b>
Program increase - space combat cloud		5,000	
<b>9 SPACE CONTROL TECHNOLOGY</b>	<b>32,931</b>	<b>35,931</b>	<b>3,000</b>
Program increase -- high-thrust gridded ion engine		3,000	
<b>10 SPACE SECURITY AND DEFENSE PROGRAM</b>	<b>58,546</b>	<b>66,546</b>	<b>10,000</b>
Transfer from line 5		10,000	
<b>14 SPACE RAPID CAPABILITIES OFFICE</b>	<b>66,193</b>	<b>51,193</b>	<b>-15,000</b>
Unjustified growth		-15,000	
<b>16 SPACE SITUATION AWARENESS OPERATIONS</b>	<b>56,279</b>	<b>52,279</b>	<b>-4,000</b>
Management services unjustified increase		-4,000	
<b>17 COUNTERSPACE SYSTEMS</b>	<b>38,063</b>	<b>31,563</b>	<b>-6,500</b>
Underexecution		-6,500	
<b>24 NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE) - EMD</b>	<b>221,510</b>	<b>184,610</b>	<b>-36,900</b>
Inadequate justification		-36,900	
<b>30 TACTICALLY RESPONSIVE LAUNCH</b>	<b>0</b>	<b>5,000</b>	<b>5,000</b>
Program increase		5,000	
<b>36 NARROWBAND SATELLITE COMMUNICATIONS</b>	<b>112,012</b>	<b>107,012</b>	<b>-5,000</b>
Analysis of alternatives inadequate justification		-5,000	
<b>40 SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT</b>	<b>18,054</b>	<b>13,054</b>	<b>-5,000</b>
Underexecution		-5,000	

R-1	Budget Request	Committee Recommended	Change from Request
41 SPACELIFT RANGE SYSTEM (SPACE) Program increase - space launch services and capability	11,115	16,115 5,000	5,000
47 NUDET DETECTION SYSTEM (SPACE) Inadequate justification	45,887	33,887 -12,000	-12,000
48 SPACE SITUATION AWARENESS OPERATIONS Underexecution	54,763	59,763 -5,000	-5,000
999 CLASSIFIED PROGRAMS Classified adjustment	4,474,809	4,064,309 -410,500	-410,500



## SPACE FORCE ACQUISITION

The Committee remains concerned that the Air Force has not taken more aggressive action in addressing longstanding space acquisition issues and has made little progress in defining what the Space Force will be doing that is fundamentally different than when it was a component of the Air Force.

The fiscal year 2022 budget request is the first budget developed by the Space Force since its establishment, yet it includes many of the same type of "big juicy targets" that the current Vice Chairman of the Joint Chiefs of Staff has warned against for at least four years. The Space Force lacks a clear plan which defines its future space architecture and lacks a strategy for how this architecture will be acquired.

The plans for establishing the new acquisition unit, Space Systems Command, consist primarily of renaming the Space and Missile Systems Center and incorporating existing space launch units. The plan does not resolve the fundamental issues of overlap and duplication in roles, responsibilities, and authorities among the various other space acquisition units in the Department of the Air Force.

The Committee believes the Space Force needs a clear and concrete vision for its future system architectures, based not on philosophy but on rigorous technical analysis with executable plans resourced by realistic budgets. Further, the Committee believes the current life-cycle based organizational construct of the Space and Missile Systems Center should be re-examined and encourages the Secretary of the Air Force to consider organizing units around mission-based program areas which correspond to their operational counterparts in Space Operations Command. The Committee also encourages the Secretary of the Air Force to simplify the decision chain from program managers to program executive officers to a service acquisition executive.

The Committee is aware of the significance of these challenges and notes the features that differentiate space acquisition from most other military acquisitions. These include technical complexity, long development timelines, low quantities of production, a unique operating environment, and the degree to which all other military systems fundamentally rely on space as the integrating utility that enables the joint force to project power globally and react decisively.

Overseeing and successfully leading an organization attempting to deliver such technically complex systems is not a part-time job and should not continue to be so. The Committee remains concerned that the Department of the Air Force still does not have a service acquisition executive solely focused on space programs. The Committee believes the Space Force was established to bring greater attention and focus to fixing its acquisition issues because previous attempts to do so did not produce lasting results. Nevertheless, the Committee remains hopeful that with strong new leadership and a greater sense of urgency the Space Force can put its acquisition issues behind it and deliver the capabilities the nation needs.

Therefore, the Committee urges the Secretary of the Air Force to seek a space acquisition professional to serve as the Assistant Secretary of the Air Force for Space Acquisition and Integration and to accelerate the transition of the service acquisition executive authority for space programs to this position at the earliest opportunity. Further, the Committee directs the Secretary of the Air Force to submit to the congressional defense committees, not later than 60 days after the enactment of this Act, a report, including a draft mission directive, which clarifies the roles and responsibilities of senior civilian and uniformed leaders who have space responsibilities, a proposed plan for organizing the acquisition units of the Space Force, 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.

#### SPACE INTEGRATION READINESS REPORT

The Committee notes that the Department of Defense lacks a comprehensive system for measuring the readiness and extent to which space-enabled capabilities, such as satellite communications terminals, Global Positioning System receivers, and other terminals and user equipment, have actually been fielded into weapons platforms and systems designed to use such capabilities. Comprehensive and accurate metrics on the readiness of space-enabled capabilities actually installed in the field will help Department leaders make decisions on priorities for future investment and improve synchronization of plans between the space segment and the user equipment segment. Therefore, the Committee directs the Assistant Secretary of Defense for Space Policy and the Assistant Secretary of the Air Force for Space Acquisition and Integration to jointly develop, in consultation with the Service Secretaries, the Under Secretary of Defense for Personnel and Readiness, and the Director of the Joint Chiefs of Staff, a recommended approach to measure and track the readiness of space-capabilities installed in weapons platforms and other systems fielded. The draft plan on proposed approaches for a space integration readiness report shall be provided to the congressional defense committees not later than 120 days after the enactment of this Act, with a final plan ready to begin implementation submitted one year after the enactment of this Act.

#### NEXT GENERATION OVERHEAD PERSISTENT INFRARED

The Committee remains concerned about the Next Generation Overhead Persistent Infrared missile warning program. Analysis by the Office of Cost Assessment and Program Evaluation (CAPE) concludes that the schedule to launch the first geosynchronous satellite by 2025 is unrealistic and that the program's cost estimate is overly optimistic. In another independent assessment, the Government Accountability Office (GAO) concludes that despite early risk reduction activities, the program faces significant technical and management challenges that are likely to delay the initial launch by at least a year. Such delays typically result in cost increases. GAO further reports that Space Force officials are tracking numerous schedule risks, while continuing to present stable costs and on-time schedule estimates in reports to the Committee.

The Committee cautions the Space Force that providing unrealistic cost and schedule estimates undermines the credibility of the Space Force's management of this and other programs. Therefore, the Committee directs the Secretary of the Air Force to conduct a thorough review of the program, the acquisition strategy, the realism of its cost and schedule estimates, and the adequacy of plans to mitigate program risks. The Committee directs the Secretary of the Air Force to provide a report to the congressional defense committees, not later than 180 days after the enactment of this Act, summarizing this review, including any recommendations for corrective actions. Further, the Committee directs the Secretary of the Air Force to continue to provide quarterly briefings to the congressional defense committees on the status of the program.

#### ON-ORBIT SERVICING AND UPGRADE OF STRATEGIC SATCOM

The Committee notes recent advancements in robotic satellite servicing technology, both in government and commercial industry, to support extension of spacecraft mission life, as well as the potential to upgrade and enhance capabilities of systems currently on-orbit. Such a capability holds promise to alter the economics of space by providing options to repair or enhance current capabilities without the full cost of replacement when a spacecraft degrades, has a minor failure, or runs out of propellant. Further, the Committee believes that the ability to upgrade or enhance systems on-orbit provides a previously unavailable path to increase resilience and ease the transition to future capabilities. Therefore, the Committee directs the Secretary of the Air Force to conduct a study to define and validate technical concepts, cost, schedule, risks, and benefits of on-orbit servicing of current strategic communications satellites and evaluate the merits of the concept in providing a transition path for future capabilities. The study shall be submitted to the congressional defense committees not later than 120 days after the enactment of this Act, and may include a classified annex, if necessary.

#### COMMERCIAL SATELLITE COMMUNICATIONS SYSTEMS

The Committee continues to be supportive of integrating commercial satellite communications capabilities into the national security space communications architecture. Over the past several years, the Air Force has carried out various pilot programs and pathfinder initiatives to explore and assess the tools and acquisition models to integrate commercial satellite communications systems more effectively and efficiently into this architecture. The fiscal year 2022 budget request includes \$23,400,000 for commercial satellite communications. The Committee recommendation fully funds this request; however, the Committee requires greater clarity on the goals and strategy for this funding. Therefore, the recommendation prohibits obligation of these funds until the Secretary of the Air Force submits a report to the congressional defense committees, not later than 90 days after the enactment of this Act, which provides a detailed spend plan that addresses the tools needed to advance the operational integration of commercial satellite communications into a hybrid enterprise management system for space communications, and what acquisition models will be

used to facilitate cost effective and efficient purchase of commercial satellite communications.

#### SPACE SECURITY AND DEFENSE PROGRAM

The budget request includes \$56,546,000 for the Space Security and Defense Program (SSDP), which was established in 2013 by the Deputy Secretary of Defense and Principal Deputy Director for National Intelligence as a joint activity of the Department of Defense and the Intelligence Community. The SSDP was chartered to develop and assess options and strategies for a more resilient national security space enterprise. The SSDP conducts studies, analysis, modeling, warfighter engagements, and prototype experimentation for more resilient space architectures as well as new space warfighting and force design concepts. The Committee supports the work the SSDP is undertaking across the national security space community to understand the threats and provide recommendations on how to best respond.

The budget request also includes \$37,000,000 for a new program to establish a unit within the Space Force, the Space Warfare Analysis Center, which is chartered, much like the SSDP, to conduct analysis, modeling, wargaming, and experimentation to create operational concepts. The Committee understands that space is a potential warfighting domain and the scope of work currently conducted may need to be expanded and tailored to more fully define the requirements, systems, and operational concepts to meet this specialized mission. However, the Committee is not persuaded that an additional, separate analysis unit that overlaps with the SSDP is necessary or that this work could not be carried out by the existing SSDP. Therefore, the recommendation provides no funding for the Space Warfare Analysis Center and provides \$66,546,000 for the SSDP, an increase of \$10,000,000, to expand the scope of its activities to support the space warfighter analysis tasks. Further, the Committee directs the Director of the SSDP to brief the congressional defense committees, not later than 90 days after the enactment of this Act, on the proposed workplan of the SSDP for the next two years, and specifically, its plan to address the space warfare analysis requirements of the Space Force.

#### LASER THREATS TO LOW-ORBIT SATELLITES

The Committee is concerned by the growing threats posed by ground-based lasers capable of damaging or destroying sensitive space sensors in low-orbit, and the lack of a coordinated strategy to understand this threat and develop concepts to mitigate its risks. The Committee directs the Secretary of Defense, in coordination with the Director of National Intelligence and other stakeholders across the national security community, to provide a plan to collect, consolidate, and characterize laser threat activity data of potential adversaries, and to develop strategies to mitigate these threats. This plan shall be submitted to the congressional defense committees not later than 120 days after the enactment of this Act and may include a classified annex, if necessary.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION,  
DEFENSE WIDE

Fiscal year 2022 budget request .....	\$25,857,875,000
Committee recommendation .....	26,239,486,000
Change from budget request .....	+381,611,000

The Committee recommends an appropriation of \$26,239,486,000 for Research, Development, Test and Evaluation, Defense-Wide which will provide the following program in fiscal year 2022:

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE			
1 BASIC RESEARCH			
OTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	11,828	11,828	---
2 DEFENSE RESEARCH SCIENCES.....	395,781	395,781	---
3 HIGH ENERGY LASER RESEARCH INITIATIVES.....	15,390	15,390	---
4 BASIC RESEARCH INITIATIVES.....	39,828	52,828	+13,000
5 BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE.....	76,018	71,018	-5,000
6 NATIONAL DEFENSE EDUCATION PROGRAM.....	112,195	116,195	+4,000
7 HISTORICALLY BLACK COLLEGES & UNIV (HBCU).....	31,136	85,000	+53,864
8 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	34,708	34,708	---
TOTAL, BASIC RESEARCH.....	718,864	782,746	+63,884
APPLIED RESEARCH			
9 JOINT MUNITIONS TECHNOLOGY.....	19,581	20,581	+1,000
10 BIOMEDICAL TECHNOLOGY.....	108,698	108,698	---
12 DEFENSE TECHNOLOGY INNOVATION.....	22,918	11,459	-11,459
13 LINCOLN LABORATORY RESEARCH PROGRAM.....	55,682	55,682	---
14 APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES.....	65,015	58,187	-5,828
15 INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	430,383	430,383	---
16 BIOLOGICAL WARFARE DEFENSE.....	31,421	31,421	---
17 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	208,956	209,956	+3,000
18 CYBER SECURITY RESEARCH.....	15,380	25,380	+10,000
19 TACTICAL TECHNOLOGY.....	202,515	192,515	-10,000
20 MATERIALS AND BIOLOGICAL TECHNOLOGY.....	317,024	299,024	-18,000
21 ELECTRONICS TECHNOLOGY.....	357,384	348,384	-12,000
22 COUNTER WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	197,011	197,011	---
23 SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH.....	9,601	9,601	---
24 HIGH ENERGY LASER RESEARCH.....	45,997	45,997	---
25 SOF TECHNOLOGY DEVELOPMENT.....	44,829	46,329	+1,500
TOTAL, APPLIED RESEARCH.....	2,130,395	2,088,608	-41,787
ADVANCED TECHNOLOGY DEVELOPMENT			
26 JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	23,213	23,213	---
27 SQ/LIC ADVANCED DEVELOPMENT.....	4,685	4,685	---
28 COMBATING TERRORISM TECHNOLOGY SUPPORT.....	69,376	141,878	+72,500
29 FOREIGN COMPARATIVE TESTING.....	25,432	25,432	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
31 COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT.....	399,362	399,362	---
32 ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT.....	15,800	15,800	---
33 ADVANCED RESEARCH.....	21,486	21,486	---
34 JOINT HYPERSONIC TECHNOLOGY DEVELOPMENT & TRANSITION...	51,340	51,340	---
35 JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	19,083	19,083	---
36 ADVANCED AEROSPACE SYSTEMS.....	174,043	174,043	---
37 SPACE PROGRAMS AND TECHNOLOGY.....	101,524	101,524	---
38 ANALYTIC ASSESSMENTS.....	24,012	22,603	-1,409
39 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS.....	51,513	46,513	-5,000
42 DEFENSE MODERNIZATION AND PROTOTYPING.....	115,443	120,043	+4,600
43 DEFENSE INNOVATION UNIT.....	31,873	26,849	-5,024
44 TECHNOLOGY INNOVATION.....	54,433	35,433	-19,000
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	86,664	-16,005
49 NETWORKED COMMUNICATIONS CAPABILITIES.....	2,984	2,984	---
50 DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	134,022	211,867	+77,845
51 MANUFACTURING TECHNOLOGY PROGRAM.....	37,543	60,543	+23,000
53 GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	12,418	12,418	---
54 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	51,863	81,863	+30,000
55 MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT....	160,821	165,821	+5,000
56 JOINT WARFIGHTING PROGRAM.....	2,169	2,169	---
57 ADVANCED ELECTRONICS TECHNOLOGIES.....	116,716	116,716	---
58 COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	251,794	251,794	---
59 NETWORK-CENTRIC WARFARE TECHNOLOGY.....	584,771	605,771	+21,000
60 SENSOR TECHNOLOGY.....	294,792	274,792	-20,000
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	107,397	---
66 TEST & EVALUATION SCIENCE & TECHNOLOGY.....	257,161	257,114	-10,047
67 NATIONAL SECURITY INNOVATION NETWORK.....	21,270	31,270	+10,000
68 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT.....	74,300	71,400	-2,900
74 SOF ADVANCED TECHNOLOGY DEVELOPMENT.....	93,415	97,415	+4,000

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
75 SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT.	172,638	172,638	---
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	4,007,596	4,175,956	+168,360
ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES			
76 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	28,687	28,687	---
77 WALKOFF.....	108,652	108,652	---
79 ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	71,429	91,429	+20,000
80 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	277,949	213,382	-64,567
81 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT...	745,144	740,144	-5,000
82 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	129,445	129,445	---
83 BALLISTIC MISSILE DEFENSE SENSORS.....	224,750	224,750	---
84 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS.....	595,301	587,051	-8,250
85 SPECIAL PROGRAMS - MDA.....	413,374	390,216	-23,158
86 AEGIS BMD.....	732,512	633,549	-98,963
BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE			
87 MANAGEMENT.....	603,448	580,948	-22,500
88 BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	50,594	50,594	---
MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER			
89 (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	362,906	---
94 BALLISTIC MISSILE DEFENSE TARGETS.....	563,334	548,784	-14,550
96 COALITION WARFARE.....	5,103	5,103	---
NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY			
97 (SG).....	374,665	374,665	---
98 DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	3,259	3,259	---
99 GUAM DEFENSE DEVELOPMENT.....	78,300	62,400	-15,900
103 HYPERSONIC DEFENSE.....	247,931	247,931	---
104 ADVANCED INNOVATIVE TECHNOLOGIES.....	716,456	731,456	+15,000
105 TRUSTED AND ASSURED MICROELECTRONICS.....	509,195	595,695	+86,500
106 RAPID PROTOTYPING PROGRAM.....	103,075	86,075	-17,000
107 DEFENSE INNOVATION UNIT (DIU) PROTOTYPING.....	11,213	11,213	---
DEPARTMENT OF DEFENSE (DOD) UNMANNED SYSTEM COMMON			
108 DEVELOPMENT.....	2,778	2,778	---
109 CATAPULT.....	7,166	7,166	---



RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
110 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT - NON S&T...	23,200	23,200	---
111 HOMELAND DEFENSE RADAR-HAWAII.....	---	75,000	+75,000
113 WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)....	3,519	3,519	---
114 JOINT CS CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY.....	17,439	17,439	---
115 LONG RANGE DISCRIMINATION RADAR.....	133,335	133,335	---
116 IMPROVED HOMELAND DEFENSE INTERCEPTORS.....	926,125	926,125	---
117 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT TEST.....	32,697	32,697	---
118 AEGIS BMD TEST.....	117,055	111,255	-5,800
119 BALLISTIC MISSILE DEFENSE SENSOR TEST.....	77,428	77,428	---
120 LAND-BASED SM-3 (LBSM3).....	43,158	43,158	---
121 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT 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	621,179	-15,000
127 SPACE TRACKING AND SURVEILLANCE SYSTEM.....	15,176	15,176	---
128 BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS.....	292,811	292,811	---
TOTAL, DEMONSTRATION & VALIDATION.....	9,854,341	9,769,853	-84,888
129 ENGINEERING & MANUFACTURING DEVELOPMENT 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	9,345	---
133 COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT.....	14,063	14,063	---
134 INFORMATION TECHNOLOGY DEVELOPMENT.....	4,265	4,265	---
135 HOMELAND PERSONNEL SECURITY INITIATIVE.....	7,205	7,205	---
136 DEFENSE EXPORTABILITY PROGRAM.....	5,447	5,447	---
137 DUSD(C) IT DEVELOPMENT INITIATIVES.....	16,892	14,792	-2,100
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 (HARMS).....	5,500	5,500	---
143 DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES.....	7,148	7,148	---
144 TRUSTED & ASSURED MICROELECTRONICS.....	113,895	113,895	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
146 NUCLEAR COMMAND, CONTROL, & COMMUNICATIONS.....	3,991	3,991	---
149 DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)...	2,227	2,227	---
150 CWRD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION....	20,246	20,246	---
TOTAL ENGINEERING & MANUFACTURING DEVELOPMENT.....	546,687	546,687	-2,100
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	544,890	-5,250
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).....	---	128,300	+128,300
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	---
166 GENERAL SUPPORT TO USD (INTELLIGENCE).....	1,952	6,202	+4,250
168 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	110,503	115,503	+5,000
SMALL BUSINESS INNOVATION RESEARCH (SBIR)/ SMALL			
172 BUSINESS TECHNOLOGY TRANSFER.....	3,639	3,639	---
173 MAINTAINING TECHNOLOGY ADVANTAGE.....	25,889	25,889	---
174 DEFENSE TECHNOLOGY ANALYSIS.....	39,774	32,274	-7,500
175 DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	61,453	61,453	---
176 R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	18,762	18,762	---
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	-1,444
181 ODNA TECHNOLOGY AND RESOURCE ANALYSIS.....	2,897	2,897	---
182 DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT.....	918	918	---
183 CYBER RESILIENCY AND CYBERSECURITY POLICY.....	31,638	31,638	---
184 DEFENSE OPERATIONS SECURITY (DOSI).....	2,925	2,925	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
185 JOINT STAFF ANALYTICAL SUPPORT.....	977	977	---
186 C4I INTEROPERABILITY.....	55,381	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 (DEOMI).....	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	1,507,201	+123,356
OPERATIONAL SYSTEMS DEVELOPMENT			
202 ENTERPRISE SECURITY SYSTEM (ESS).....	5,356	5,355	---
203 JOINT ARTIFICIAL INTELLIGENCE.....	10,033	---	-10,033
206 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT.....	58,189	187,739	+129,550
207 C4MD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT.....	18,721	18,721	---
208 GLOBAL THEATER SECURITY COOPERATION MANAGEMENT.....	7,398	7,398	---
CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS DEVELOPMENT).....	58,261	58,261	---
209			
215 DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION.....	16,233	16,233	---
216 LONG HAUL COMMUNICATIONS (OCS).....	10,275	10,275	---
217 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK.....	4,692	4,692	---
218 KEY MANAGEMENT INFRASTRUCTURE (KMI).....	83,751	83,751	---
219 INFORMATION SYSTEMS SECURITY PROGRAM.....	49,191	49,191	---
220 INFORMATION SYSTEMS SECURITY PROGRAM.....	423,745	447,745	+24,000
221 INFORMATION SYSTEMS SECURITY PROGRAM.....	5,707	5,707	---
222 GLOBAL COMMAND AND CONTROL SYSTEM.....	4,150	4,150	---
223 DEFENSE SPECTRUM ORGANIZATION.....	19,302	19,302	---
224 JOINT REGIONAL SECURITY STACKS (JRSS).....	9,342	9,342	---
226 FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY.....	15,326	15,326	---
232 SECURITY AND INVESTIGATIVE ACTIVITIES.....	8,800	8,800	---
235 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	3,820	3,820	---
237 POLICY R&D PROGRAMS.....	4,843	4,843	---

RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
238 NET CENTRICITY.....	13,471	13,471	---
240 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	5,994	5,994	---
246 INSIDER THREAT.....	---	3,000	+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	1,799	---
257 DEFENSE PROPERTY ACCOUNTABILITY SYSTEM.....	6,390	6,390	---
259 MQ-9 UAV.....	19,065	19,065	---
261 AVIATION SYSTEMS.....	173,537	171,537	-2,000
262 INTELLIGENCE SYSTEMS DEVELOPMENT.....	32,766	30,399	-2,367
263 OPERATIONAL ENHANCEMENTS.....	145,830	179,230	+33,400
264 WARRIOR SYSTEMS.....	78,592	78,592	---
265 SPECIAL PROGRAMS.....	6,486	6,486	---
266 UNMANNED ISR.....	18,006	18,006	---
267 SOF TACTICAL VEHICLES.....	7,703	7,703	---
268 MARITIME SYSTEMS.....	58,430	62,630	+4,200
270 OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	10,990	10,990	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,399,356	1,579,106	+179,750
999 CLASSIFIED PROGRAMS.....	5,208,029	5,189,385	-18,644
272 JOINT ARTIFICIAL INTELLIGENCE.....	186,639	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	236,952	-8,500
=====			
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE.....	25,857,875	26,239,486	+381,611
=====			

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

R-1		Budget Request	Committee Recommended	Change from Request
4	<b>BASIC RESEARCH INITIATIVES</b>	<b>39,828</b>	<b>52,828</b>	<b>13,000</b>
	Program increase - Minerva		8,000	
	Program increase - DEFSOR		5,000	
5	<b>BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE</b>	<b>76,018</b>	<b>71,018</b>	<b>-5,000</b>
	Project increase - novel analytical and empirical approaches to the prediction and monitoring of disease transmission		1,500	
	Unjustified growth		-6,500	
6	<b>NATIONAL DEFENSE EDUCATION PROGRAM</b>	<b>112,195</b>	<b>116,195</b>	<b>4,000</b>
	Program increase - SMART diversification activities		2,000	
	Program increase - civics education		2,000	
7	<b>HISTORICALLY BLACK COLLEGES &amp; UNIVERSITIES (HBCU) AND MINORITY-SERVING INSTITUTIONS</b>	<b>31,136</b>	<b>86,000</b>	<b>53,864</b>
	Program Increase		53,864	
9	<b>JOINT MUNITIONS TECHNOLOGY</b>	<b>19,591</b>	<b>20,591</b>	<b>1,000</b>
	Project increase - next generation explosives and propellants		1,000	
12	<b>DEFENSE TECHNOLOGY INNOVATION</b>	<b>22,918</b>	<b>11,459</b>	<b>-11,459</b>
	Insufficient justification		-11,459	
14	<b>APPLIED RESEARCH FOR THE ADVANCEMENT OF S&amp;T PRIORITIES</b>	<b>65,015</b>	<b>59,187</b>	<b>-5,828</b>
	Excess growth		-5,828	
17	<b>CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>206,956</b>	<b>209,956</b>	<b>3,000</b>
	Program increase - tularemia medical countermeasure		3,000	
18	<b>CYBER SECURITY RESEARCH</b>	<b>15,380</b>	<b>25,380</b>	<b>10,000</b>
	Program increase - academic cyber institutes		10,000	
19	<b>TACTICAL TECHNOLOGY</b>	<b>202,515</b>	<b>192,515</b>	<b>-10,000</b>
	Underexecution		-10,000	
20	<b>MATERIALS AND BIOLOGICAL TECHNOLOGY</b>	<b>317,024</b>	<b>299,024</b>	<b>-18,000</b>
	Unjustified increase		-18,000	
21	<b>ELECTRONICS TECHNOLOGY</b>	<b>357,384</b>	<b>345,384</b>	<b>-12,000</b>
	Underexecution		-12,000	
25	<b>SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT</b>	<b>44,829</b>	<b>46,329</b>	<b>1,500</b>
	Program increase - LRUSV asymmetric strikes and decoy package		1,500	

R-1	Budget Request	Committee Recommended	Change from Request
<b>28 COMBATING TERRORISM TECHNOLOGY SUPPORT</b>	<b>69,376</b>	<b>141,876</b>	<b>72,500</b>
Program increase - anti-tunneling		47,500	
Program increase - cooperative C-UAS development		25,000	
<b>38 ANALYTIC ASSESSMENTS</b>	<b>24,012</b>	<b>22,603</b>	<b>-1,409</b>
Inadequate justification		-1,409	
<b>39 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS</b>	<b>61,513</b>	<b>46,513</b>	<b>-5,000</b>
Unjustified growth		-5,000	
<b>42 DEFENSE MODERNIZATION AND PROTOTYPING</b>	<b>115,443</b>	<b>120,043</b>	<b>4,600</b>
Program increase - emerging capabilities technology development hypersonics modeling and simulation center of excellence		4,600	
<b>43 DEFENSE INNOVATION UNIT (DIU)</b>	<b>31,873</b>	<b>26,849</b>	<b>-5,024</b>
Unjustified increase		-5,024	
<b>44 TECHNOLOGY INNOVATION</b>	<b>84,433</b>	<b>35,433</b>	<b>-19,000</b>
Unjustified growth		-19,000	
<b>48 JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS</b>	<b>102,669</b>	<b>86,664</b>	<b>-16,005</b>
Excess growth		-16,005	
<b>50 DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM</b>	<b>134,022</b>	<b>211,687</b>	<b>77,645</b>
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		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 - HPC enabled advanced manufacturing		5,000	
Program increase - domestic textile manufacturing		7,500	
<b>51 MANUFACTURING TECHNOLOGY PROGRAM</b>	<b>37,543</b>	<b>60,543</b>	<b>23,000</b>
Program increase - steel performance initiative		10,000	
Program increase - supply chain for readiness and sustainment		8,000	
Program increase - conversion of titanium scrap		5,000	
<b>54 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM</b>	<b>51,863</b>	<b>81,863</b>	<b>30,000</b>
Program increase - PFAS remediation and disposal technology		15,000	
Program increase - AFFF replacement, disposal, and cleanup technology		15,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>MICROELECTRONICS TECHNOLOGY DEVELOPMENT AND SUPPORT</b>			
55 Program increase - qualified discrete parts	160,821	165,821 5,000	5,000
<b>59 NETWORK-CENTRIC WARFARE TECHNOLOGY</b>	584,771	605,771 21,000	21,000
Program increase - deployable surveillance systems			
<b>60 SENSOR TECHNOLOGY</b>	294,792	274,792 -20,000	-20,000
Unjustified growth			
<b>66 TEST &amp; EVALUATION SCIENCE &amp; TECHNOLOGY</b>	267,161	257,114 -20,047 10,000	-10,047
Excess growth			
Program increase - space testing facilities			
<b>87 NATIONAL SECURITY INNOVATION NETWORK</b>	21,270	31,270 10,000	10,000
Program increase			
<b>68 OPERATIONAL ENERGY CAPABILITY IMPROVEMENT</b>	74,300	71,400 -2,900	-2,900
Excess growth			
<b>74 SOF ADVANCED TECHNOLOGY DEVELOPMENT</b>	93,415	97,415 4,000	4,000
Project increase - assessing and tracking tactical forces initiative			
<b>ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM</b>	71,429	91,429 15,000 5,000	20,000
Program increase - PFAS remediation and disposal technology			
Program increase - AFFF replacement, disposal, and cleanup technology			
<b>80 BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT</b>	277,949	213,382 -64,567	-64,567
Unjustified growth - THAAD LHD lack of validated requirement and acquisition strategy			
<b>81 BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT</b>	745,144	740,144 -5,000	-5,000
Unjustified growth - ground support and fire control LHD lack of validated requirement and acquisition strategy			
<b>84 BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS</b>	595,301	587,051 -8,250	-8,250
Unjustified growth - LHD lack of validated requirement and acquisition strategy			
<b>85 SPECIAL PROGRAMS - MDA</b>	413,374	390,216 -23,158	-23,158
Program adjustment			
<b>86 AEGIS BMD</b>	732,512	633,549 -98,963	-98,963
Unjustified growth - AEGIS LHD lack of validated requirement and acquisition strategy			
<b>87 BALLISTIC MISSILE DEFENSE C2BMC</b>	603,448	580,948 -22,500	-22,500
Unjustified growth - LHD lack of validated requirement and acquisition strategy			

R-1	Budget Request	Committee Recommended	Change from Request
<b>94 BMD TARGETS</b>	<b>553,334</b>	<b>548,764</b>	<b>-4,550</b>
Unjustified growth - LHD lack of validated requirement and acquisition strategy		-4,550	
<b>99 GUAM DEFENSE DEVELOPMENT</b>	<b>78,300</b>	<b>62,400</b>	<b>-15,900</b>
Unjustified growth		-15,900	
<b>104 ADVANCED INNOVATIVE TECHNOLOGIES</b>	<b>716,456</b>	<b>731,456</b>	<b>15,000</b>
Program increase - mobile nuclear microreactor		15,000	
<b>105 TRUSTED &amp; ASSURED MICROELECTRONICS</b>	<b>509,195</b>	<b>695,995</b>	<b>86,500</b>
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	
<b>106 RAPID PROTOTYPING PROGRAM</b>	<b>103,676</b>	<b>88,076</b>	<b>-17,500</b>
Unjustified increase		-17,500	
<b>111 HOMELAND DEFENSE RADAR - HAWAII</b>	<b>0</b>	<b>75,000</b>	<b>75,000</b>
HDR-H funding restoration		75,000	
<b>115 AEGIS BMD TEST</b>	<b>117,055</b>	<b>111,255</b>	<b>-5,800</b>
Unjustified growth - AEGIS LHD test funding early to need		-5,800	
<b>SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING</b>	<b>636,179</b>	<b>621,179</b>	<b>-15,000</b>
Unjustified growth		-15,000	
<b>137 OUSD(C) IT DEVELOPMENT INITIATIVES</b>	<b>16,892</b>	<b>14,792</b>	<b>-2,100</b>
Excess growth		-2,100	
<b>154 CENTRAL TEST &amp; EVAL INVESTMENT DEVELOPMENT</b>	<b>550,140</b>	<b>544,890</b>	<b>-5,250</b>
Unjustified increase		-34,750	
Program increase - hypersonic test facilities		29,500	
<b>160 CLASSIFIED PROGRAM USD(P)</b>	<b>0</b>	<b>128,300</b>	<b>128,300</b>
Classified adjustment		128,300	
<b>165 GENERAL SUPPORT TO USD (INTELLIGENCE)</b>	<b>1,952</b>	<b>6,202</b>	<b>4,250</b>
Program increase - applied research laboratory for intelligence and security		4,250	
<b>166 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>110,503</b>	<b>115,503</b>	<b>5,000</b>
Program increase - biological weapons testing		5,000	
<b>174 DEFENSE TECHNOLOGY ANALYSIS</b>	<b>39,774</b>	<b>32,274</b>	<b>-7,500</b>
Excess growth		-7,500	



R-1	Budget Request	Committee Recommended	Change from Request
<b>180 BUDGET AND PROGRAM ASSESSMENTS</b>	<b>15,438</b>	<b>13,994</b>	<b>-1,444</b>
Unjustified increase		-1,444	
<b>203 JOINT ARTIFICIAL INTELLIGENCE</b>	<b>10,033</b>	<b>0</b>	<b>-10,033</b>
Inadequate justification		-10,033	
<b>INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT</b>			
<b>206 SUPPORT</b>	<b>58,189</b>	<b>187,739</b>	<b>129,550</b>
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		9,000	
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		4,500	
Program increase - metal-organic frameworks		7,500	
Program increase - weldable ultra hard armor		3,000	
Program increase - pilot mask technology		5,000	
<b>220 INFORMATION SYSTEMS SECURITY PROGRAM</b>	<b>423,745</b>	<b>447,745</b>	<b>24,000</b>
Program increase - cyber institutes at senior military colleges		24,000	
<b>246 INSIDER THREAT</b>	<b>0</b>	<b>3,000</b>	<b>3,000</b>
Program increase		3,000	
<b>SPECIAL OPERATIONS AVIATION SYSTEMS</b>			
<b>261 ADVANCED DEVELOPMENT</b>	<b>173,537</b>	<b>171,537</b>	<b>-2,000</b>
PSP HEL program decrease		-2,000	
<b>SPECIAL OPERATIONS INTELLIGENCE SYSTEMS</b>			
<b>262 DEVELOPMENT</b>	<b>32,766</b>	<b>30,399</b>	<b>-2,367</b>
MMP program decrease		-2,367	
<b>263 SOF OPERATIONAL ENHANCEMENTS</b>	<b>145,830</b>	<b>179,230</b>	<b>33,400</b>
Program increase - classified adjustment		12,000	
Program increase - AISUM		21,400	
<b>268 SOF MARITIME SYSTEMS</b>	<b>58,430</b>	<b>62,630</b>	<b>4,200</b>
Program increase - diver propulsion		4,200	
<b>ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS</b>			
<b>276 - SOFTWARE PILOT PROGRAM</b>	<b>247,452</b>	<b>239,952</b>	<b>-8,500</b>
Unjustified growth		-8,500	
<b>999 CLASSIFIED PROGRAMS</b>	<b>5,208,029</b>	<b>5,189,385</b>	<b>-18,644</b>
Classified adjustment		-18,644	

#### STRATEGIC NATIONAL STOCKPILE OF ACTIVE PHARMACEUTICAL INGREDIENTS

The Committee remains concerned about vulnerabilities in America's reliance on foreign-sourced supplies of active pharmaceutical ingredients and their chemical components, and more generally, the nation's reliance on off-shore drug production. In the Department of Defense Appropriations Act, 2021, the Committee encouraged the Secretary of Defense, the Director of the Defense Advanced Research Projects Agency, and the Director of the Biomedical Advanced Research and Development Authority to cooperatively research areas of mutual interest to address public health vulnerabilities, secure a national stockpile of life-saving drugs, and address vulnerability points for the military. The Committee directs the Director of the Defense Advanced Research Projects Agency to brief the House and Senate Appropriations Committees, not later than 120 days after the enactment of this Act, on the status of these efforts, actions taken to date, and plans for future collaborations.

#### NEXT-GENERATION NEUROTECHNOLOGY

The Committee notes the success of the Next-Generation Nonsurgical Neurotechnology program by the Defense Advanced Research Projects Agency (DARPA) which aims to develop high-performance brain-machine interfaces for able-bodied servicemembers without requiring the implantation of electrodes directly into the brain. The program also has the opportunity to help wounded warriors regain independence without invasive surgery by providing new clinical opportunities in areas such as controlling their own limbs via muscle stimulation and rehabilitation, stroke interventions, and overcoming tinnitus. The Committee believes that continued collaboration between DARPA and the Department of Veterans Affairs has the potential to develop and test neurotechnology for veteran movement rehabilitation and other clinical treatments. The Committee encourages the Director of DARPA to collaborate with the Secretary of Veterans Affairs to identify and develop opportunities to improve quality of life for disabled veterans via DARPA's minutely invasive and noninvasive brain computer interfaces.

#### SUPPLY CHAIN RISK MANAGEMENT

The Committee notes that Section 847 of the National Defense Authorization Act for Fiscal Year 2020 requires existing and prospective contractors and subcontractors of the Department of Defense on a contract or subcontract with a value in excess of \$5,000,000, with certain exceptions, to disclose to and continuously update the Defense Counterintelligence and Security Agency (DCSA) on their beneficial ownership and whether they are under foreign ownership, control, or influence. Given the responsibility of the DCSA to ensure the security of the Department's supply chain, the Committee supports the \$12,212,000 increase included in the budget request for the Vetting Risk Operations Center, manager of the Department's National Industrial Security Program, and the \$25,428,000 increase included in the budget request for research and development efforts, which include advancing the use of ana-

lytic tools to assess, mitigate, and continuously monitor the covered contractor and subcontractor community.

The Committee 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 foreign ownership, control, and influence in Department of Defense contracts and subcontracts.

#### GEOSPATIAL ANALYTICS PLATFORM FOR ENHANCED INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE CAPABILITIES

The Committee supports the efforts made by the Department of Defense and the Intelligence Community to use innovative technologies such as those that employ artificial intelligence and machine learning to maximize and enhance intelligence, surveillance, and reconnaissance capabilities. Regardless, the deluge of data generated by new and existing commercial and government assets increasingly inundates the analytical cadre and, by extension, senior leadership within the Department and Intelligence Community. The Committee is aware of new and innovative commercial platforms that automate computer vision applications and data interpretations of satellite and other imagery for rapid and effective decision-making. The Committee encourages the Secretary of Defense and the Director of National Intelligence to explore commercially available custom computer vision algorithms on commercial, both classified and unclassified, data sets to minimize analytic burden.

#### OFFICE OF INDUSTRIAL POLICY—CAREER AND TECHNICAL EDUCATION PILOT PROGRAM

The Committee recognizes the need to increase student enrollment in relevant career and technical education (CTE), pre-apprenticeship, and apprenticeship programs to address labor shortages in the defense manufacturing sector. The Committee recommendation includes \$10,000,000 to develop a pilot program to promote awareness and enhancement of CTE programs and career pathways in middle schools, high schools, trade schools, technical schools, community colleges, and four-year colleges and universities by funding activities that may, but need not only, complement resources made available to Perkins, pre-apprenticeship, or apprenticeship grant recipients specializing in fields relevant to the defense sector. The Committee directs the Deputy Assistant Secretary of Defense for Industrial Policy to submit a report to the House and Senate Appropriations Committees not later than 120 days after the enactment of this Act on the priorities for this pilot program relative to other defense manufacturing education and workforce development programs. The report shall list current education and workforce programs and associated funding levels in the Defense Manufacturing Community Support Program, Industrial Base Analysis and Sustainment, Manufacturing Innovation Institutes, and National Defense Education Program.

## DIGITAL ENGINEERING ENABLED WORKFORCE DEVELOPMENT

The Committee recognizes the critical need to train and educate the defense industrial base workforce to ensure a more resilient and secure supply chain of aircraft systems, decoys, drones, missiles, and other defense and commercial aerospace applications. Advanced digital technology, engineering services, and technical support is essential to meet current and future workforce demands. The Committee recommendation includes \$7,000,000 above the request to deploy advanced digital engineering technology, provide engineering support, and provide workforce education to effectively enable manufacturing and delivery of such systems and subsystems.

OFFICE OF RESEARCH AND ENGINEERING,  
OFFICE OF PERSONNEL AND READINESS—UTILIZING  
RESEARCH AND DEVELOPMENT GRANTS FOR RECRUITMENT

The Committee recognizes an opportunity for the Department of Defense to utilize its investments in research and development to recruit undergraduate students, graduate students, post-doctoral researchers, academic faculty and researchers, and industry researchers for civilian and military hard-to-fill positions across the Department of Defense. The Committee directs the Under Secretary of Defense for Research and Engineering to submit a report to the House and Senate Appropriations Committees not later than 120 days after the enactment of this Act on programs and funding applied to recruitment of students and researchers for civilian and military hard-to-fill positions throughout the Department of Defense; the return on investment from those efforts; the utilization of grants for such efforts; and plans to increase or enhance recruitment of students and researchers for positions identified as hard-to-fill by utilizing grants or some other means.

## COMMERCIAL SATELLITE IMAGERY

The Committee notes the increasing 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. However, the Committee is concerned 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 Committee 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.

## DOMESTIC SOURCING OF CRITICAL MINERALS

The Committee recognizes that battery metals are a critical resource for the domestic defense industrial base and that other countries, including China, are investing state funds to grow their own lithium-ion battery supply chains. The Committee directs the Under Secretary of Defense for Acquisition and Sustainment to develop a needs assessment study for the domestic sourcing of critical battery metals, including lithium, cobalt, and nickel, and submit a report to the congressional defense committees on findings from the assessment not later than 180 days after the enactment of this Act.

## WOMEN AND MINORITIES IN STEM PIPELINE

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

## OPERATIONAL TEST AND EVALUATION, DEFENSE

Fiscal year 2022 budget request .....	\$216,591,000
Committee recommendation .....	216,591,000
Change from budget request .....	—

The Committee recommends an appropriation of \$216,591,000 for Operational Test and Evaluation, Defense which will provide the following program in fiscal year 2022:

## EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
OPERATIONAL TEST AND EVALUATION .....	105,394	105,394	0
LIVE FIRE TESTING .....	68,549	68,549	0
OPERATIONAL TEST ACTIVITIES AND ANALYSIS .....	42,648	42,648	0
TOTAL, OPERATIONAL TEST & EVALUATION, DEFENSE .....	216,591	216,591	0



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

Fiscal year 2022 budget request .....	\$1,902,000,000
Committee recommendation .....	1,902,000,000
Change from budget request .....	---

The Committee recommends an appropriation of \$1,902,000,000 for the Defense Working Capital Funds accounts which will provide the following program in fiscal year 2022:

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
(In thousands of dollars)

	Budget Re- quest	Committee Recommended	Change from Request
WORKING CAPITAL FUND, ARMY .....	384,711	384,711	0
Industrial Operations .....	26,935	26,935	
Supply Management .....	357,776	357,776	
WORKING CAPITAL FUND, NAVY .....	150,000	150,000	0
Supply Management .....	150,000	150,000	
WORKING CAPITAL FUND, AIR FORCE .....	77,453	77,453	0
Supply Management .....	77,453	77,453	
WORKING CAPITAL FUND, DEFENSE WIDE .....	127,765	127,765	0
Energy Management .....	40,000	40,000	
Supply Chain Management .....	87,765	87,765	
DEFENSE WORKING CAPITAL FUND, DECA .....	1,162,071	1,162,071	0
TOTAL, DEFENSE WORKING CAPITAL FUNDS .....	1,902,000	1,902,000	0





TITLE VI  
OTHER DEPARTMENT OF DEFENSE PROGRAMS  
DEFENSE HEALTH PROGRAM

Fiscal year 2022 budget request .....	\$35,592,407,000
Committee recommendation .....	36,658,536,000
Change from budget request .....	+1,066,129,000

The Committee recommends an appropriation of \$36,658,536,000 for the Defense Health Program which will provide the following program in fiscal year 2022:

OPERATION AND MAINTENANCE  
(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
DEFENSE HEALTH PROGRAM			
10 OPERATION AND MAINTENANCE IN-HOUSE CARE.....	9,720,804	9,577,302	-142,702
20 PRIVATE SECTOR CARE.....	18,092,679	18,032,079	-60,600
30 CONSOLIDATED HEALTH SUPPORT.....	1,541,122	1,540,622	-600
40 INFORMATION MANAGEMENT.....	2,233,677	2,233,677	---
50 MANAGEMENT ACTIVITIES.....	335,138	335,138	---
60 EDUCATION AND TRAINING.....	333,234	340,734	+7,500
70 BASE OPERATIONS/COMMUNICATIONS.....	1,926,865	2,004,865	+78,000
SUBTOTAL, OPERATION AND MAINTENANCE.....	34,182,719	34,064,317	-118,402
PROCUREMENT			
150 INITIAL OUTFITTING.....	20,826	20,826	---
160 REPLACEMENT AND MODERNIZATION.....	250,366	250,386	---
180 MILITARY HEALTH SYSTEM - DESKTOP TO DATACENTER.....	72,302	72,302	---
180 DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION.....	435,414	411,945	-23,469
SUBTOTAL, PROCUREMENT.....	779,008	755,539	-23,469
RESEARCH DEVELOPMENT TEST AND EVALUATION			
80 RESEARCH.....	9,091	9,091	---
90 EXPLORATORY DEVELOPMENT.....	75,463	75,463	---
100 ADVANCED DEVELOPMENT.....	235,556	310,556	+75,000
110 DEMONSTRATION/VALIDATION.....	142,252	171,252	+29,000
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.....	---	1,104,000	+1,104,000
SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION.....	630,680	1,838,680	+1,208,000
TOTAL, DEFENSE HEALTH PROGRAM.....			
	35,592,407	36,658,536	+1,066,129

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

	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>OPERATION AND MAINTENANCE</b>			
<b>IN-HOUSE CARE</b>	<b>9,720,004</b>	<b>9,577,302</b>	<b>-142,702</b>
Assumptions for care		-27,800	
Medical reform implementation - excess funding to replace military medical end strength		-104,462	
Inadequate justification		-15,440	
Program increase - telehealth for military children and families		5,000	
<b>PRIVATE SECTOR CARE</b>	<b>18,092,679</b>	<b>18,032,079</b>	<b>-60,600</b>
Assumptions for care		-60,600	
<b>CONSOLIDATED HEALTH SUPPORT</b>	<b>1,541,122</b>	<b>1,540,522</b>	<b>-600</b>
Assumptions for care		-14,600	
Program increase - therapeutic service dog training program		14,000	
<b>INFORMATION MANAGEMENT</b>	<b>2,233,677</b>	<b>2,233,677</b>	<b>0</b>
<b>MANAGEMENT ACTIVITIES</b>	<b>335,138</b>	<b>335,138</b>	<b>0</b>
<b>EDUCATION AND TRAINING</b>	<b>333,234</b>	<b>340,734</b>	<b>7,500</b>
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	
<b>BASE OPERATIONS AND COMMUNICATIONS</b>	<b>1,926,865</b>	<b>2,004,865</b>	<b>78,000</b>
Program increase - FSRM		78,000	
<b>TOTAL, OPERATION AND MAINTENANCE</b>	<b>34,182,719</b>	<b>34,054,317</b>	<b>-118,402</b>
<b>PROCUREMENT</b>			
Excess growth		-23,469	-23,469
<b>TOTAL, PROCUREMENT</b>	<b>779,008</b>	<b>755,539</b>	<b>-23,469</b>
<b>RESEARCH AND DEVELOPMENT</b>			
Program increase - clinical research		10,000	
Program increase - Uniformed Services University of the Health Sciences military surgical teams simulation technology		5,000	
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	
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	

	Budget Request	Committee Recommended	Change from Request
Peer-reviewed cancer research		115,000	
Peer-reviewed Duchenne muscular dystrophy research		10,000	
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 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	
Trauma clinical research program		10,000	
Combat readiness medical research		10,000	
<b>TOTAL, RESEARCH AND DEVELOPMENT</b>	<b>630,680</b>	<b>1,838,680</b>	<b>1,208,000</b>

## REPROGRAMMING GUIDANCE FOR THE DEFENSE HEALTH PROGRAM

The Committee includes a provision which caps the funds available for Private Sector Care under the TRICARE program subject to prior approval reprogramming procedures. The provision and accompanying report language should not be interpreted as limiting the amount of funds that may be transferred to the In-House Care budget sub-activity from other budget sub-activities within the Defense Health Program. In addition, funding for the In-House Care budget sub-activity continues to be designated as a congressional special interest item. Any transfer of funds from the In-House Care budget sub-activity into the Private Sector Care budget sub-activity or any other budget sub-activity requires the Secretary of Defense to follow prior approval reprogramming procedures for operation and maintenance funds.

The Committee directs the Secretary of Defense to provide written notification to the congressional defense committees of cumulative transfers in excess of \$10,000,000 out of the Private Sector Care budget sub-activity not later than fifteen days after such a transfer. Furthermore, the Committee directs the Secretary of Defense to provide a report to the congressional defense committees not later than 30 days after the enactment of this Act that delineates transfers of funds, and the dates any transfers occurred, from the Private Sector Care budget sub-activity to any other budget sub-activity.

The Committee further directs the Assistant Secretary of Defense for Health Affairs to provide quarterly reports to the congressional defense committees on budget execution data for all Defense Health Program budget activities and to adequately reflect changes to the budget activities requested by the Services in future budget submissions. These reports should also be provided to the Government Accountability Office.

## CARRYOVER

For fiscal year 2022, the Committee recommends one percent carryover authority for the operation and maintenance account of the Defense Health Program. The Committee directs the Assistant Secretary of Defense for Health Affairs to submit a detailed spending plan for any fiscal year 2021 designated carryover funds to the congressional defense committees not less than 30 days prior to executing the carryover funds.

## PEER-REVIEWED CANCER RESEARCH PROGRAMS

The Committee recommends \$150,000,000 for the peer-reviewed breast cancer research program, \$110,000,000 for the peer-reviewed prostate cancer research program, \$45,000,000 for the peer-reviewed ovarian cancer research program, \$50,000,000 for the peer-reviewed kidney cancer research program, \$20,000,000 for the peer-reviewed lung cancer research program, \$40,000,000 for the peer-reviewed melanoma research program, \$15,000,000 for the peer-reviewed pancreatic cancer research program, \$17,500,000 for the peer-reviewed rare cancer research program, and \$115,000,000 for the peer-reviewed cancer research program that would research

cancers not addressed in the aforementioned programs currently executed by the Department of Defense.

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

The funds provided under the peer-reviewed cancer research program shall be used only for the purposes listed above. The Committee directs the Assistant Secretary of Defense for Health Affairs to provide a report not later than 180 days after the enactment of this Act to the congressional defense committees on the status of the peer-reviewed cancer research program. For each research area, the report shall include the funding amount awarded, the progress of the research, and the relevance of the research to servicemembers and their families.

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

#### JOINT WARFIGHTER MEDICAL RESEARCH PROGRAM

The Committee recommendation includes \$40,000,000 for the continuation of the joint warfighter medical research program. The funding shall be used to augment and accelerate high priority Department of Defense and Service medical requirements and to continue prior year initiatives that are close to achieving their objectives and yielding a benefit to military medicine. The funding shall not be used for new projects nor for basic research, and it shall be awarded at the discretion of the Secretary of Defense following a review of medical research and development gaps as well as unfinanced medical requirements of the Services. Further, the Committee directs the Assistant Secretary of Defense for Health Affairs to submit a report not later than 180 days after the enactment of this Act to the congressional defense committees that lists the projects that receive funding. The report should include the funding amount awarded to each project, a thorough description of

each project's research, and the benefit the research will provide to the Department of Defense.

#### COMBAT READINESS MEDICAL RESEARCH PROGRAM

The Committee recommendation includes \$10,000,000 for the Combat Readiness Medical Research program. The program should focus on medical needs of the warfighter on the battlefield. Research should address the "golden hour" for servicemembers with life threatening injuries, battlefield diagnostics, and medical threats and treatments for warfighters deployed around the world.

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

The funding in the Combat Readiness Medical Research program should be used for research and development of rapidly deployable, all-in-one acute and chronic wound care therapy engineered to address complex trauma and start tissue regeneration; repairing or restoring damaged or missing genitourinary organs and tissue; freeze dried plasma and platelets; portable neurological devices in support of mild traumatic brain injury assessment; hand-held detection devices for traumatic brain injury; head trauma injury; ruggedized oxygen generation systems; medical simulation technology; sleep disorders; eating disorders; extracorporeal life support; myalgic encephalomyelitis/chronic fatigue syndrome; regenerative medicine; sarcoidosis; valley fever; complementary health measures to accelerate return to duty; highly infectious disease treatment and transport; preventing and relieving service-related arthritis; and telemedicine.

#### ELECTRONIC HEALTH RECORDS

The Committee continues to support the efforts that the Department of Defense and the Department of Veterans Affairs are undertaking with regard to electronic health records and the health record system. It is the Committee's ongoing expectation that the Departments' electronic health record systems must be completely and meaningfully interoperable with seamless compatibility.

The Committee notes that one of the determining factors setting the timeline for deployment of the electronic health record is the need to improve informational technology and related infrastructure at military medical facilities. The Committee continues to direct 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 Committee continues to direct the Comptroller General to perform quarterly performance reviews of the Department of Defense electronic health record deployment so that the Committee can further monitor implementation of the system and whether it is meeting predicted costs.

Additionally, the Committee directs the Director of the Inter-agency Program Office (IPO) to continue to provide quarterly reports on the progress of interoperability between the two Departments to the House and Senate Defense Appropriations Subcommittees and the House and Senate Military Construction, Veterans Affairs, and Related Agencies Appropriations Subcommittees. The Program Executive Office (PEO) for Defense Healthcare Management Systems (DHMS), in conjunction with the Director of the IPO and the Director of the Defense Health Agency, is directed to provide quarterly reports to the congressional defense committees 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 Committee directs the PEO DHMS to continue briefing the House and Senate Defense Appropriations Subcommittees on a quarterly basis, coinciding with the report submission.

#### DESCOPING MILITARY TREATMENT FACILITIES

The Committee notes that the report required by section 703 of the National Defense Authorization Act for Fiscal Year 2017, submitted to Congress in February 2020, communicated the Department's plan to reduce or eliminate healthcare services for dependents and retirees at several military treatment facilities across the country. The Department is revalidating its assumptions in light of the coronavirus pandemic. The Committee questioned the Department's assumptions when the initial report was released, and is interested in the forthcoming conclusions related to the quality and accessibility of private sector care, the cost of changing the venue of care, and the relationship to other reforms, such as reducing the number of military medical billets. The Committee believes that Congress must be a partner in these decisions.

The Committee directs the Assistant Secretary of Defense for Health Affairs, in coordination with the Director of the Defense Health Agency and the Service Surgeons General, to brief the congressional defense committees on the implementation plan prior to the obligation of funds in fiscal year 2022 to close or descope any military treatment facilities, including an update to the market analysis conducted, cost implications, timeline, impact on providers, and benefits or risks to the served population.

#### REDUCTION OF MILITARY BILLETS

As directed by the National Defense Authorization Act for Fiscal Year 2017, the budget requests for fiscal years 2020 and 2021 included proposals to reduce the number of military medical personnel to increase the number of operational billets required for lethality.

The Department proposed, and the Committee rejected, \$250,000,000 in the fiscal year 2020 budget request and \$334,613,000 in the fiscal year 2021 budget request to mitigate potential access to care issues caused by the reduction of military providers. In both fiscal years the Committee was willing to continue the dialogue on necessary funding once the analysis by the Services had been completed, and when satisfactory and sufficient details on



the Department's plan to mitigate risk and access to care issues were answered. Despite numerous requests, information was not provided, and the Committee did not appropriate the requested funds. Given the continued lack of details regarding the quality and availability of care for beneficiaries, as well as a negative impact on readiness that may be caused by an unnecessary or potentially dangerous shedding of military medical providers, the Committee once again does not recommend funding the requested amount of \$104,462,000 in fiscal year 2022 for the same purpose.

The Committee understands that the military medical manning report required by Section 719 of the National Defense Authorization Act for Fiscal Year 2020 is expected to be delivered to the congressional defense committees during the summer of 2021. This report should respond to questions regarding medical manning requirements for all national defense strategy scenarios, homeland defense mission and pandemic influenza, along with an identification of affected billets and a plan to mitigate potential gaps in health care services caused by realignment or reduction in military medical end strength. While the Committee is cautiously optimistic about the details of this report, proposed reductions to military medical manning is occurring alongside other reforms. As such, the Committee directs the Assistant Secretary of Defense for Health Affairs to submit a report to the congressional defense committees not later than 60 days after the enactment of this Act on the Department's efforts to respond to disturbing 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.

#### METASTATIC CANCER RESEARCH

Research has revealed that there is a genetic basis for susceptibility to metastatic cancer or resistance to metastasis, and the Committee believes that more research is required to develop a comprehensive understanding of this complex process. Clinical trials are an important aspect of that process and a diverse representation of patients in clinical trials is integral to the development of medications and therapies that effectively treat the disease. The Committee encourages the Director, Congressionally Directed Medical Research Program, to continue to partner with outside experts and other federal agencies to implement the recommendation from the April 2018 Task Force Report to Congress on Metastatic Cancer concerning diverse enrollment in clinical trials. The Committee also encourages the Assistant Secretary of Defense for Health Affairs to implement the recommendations to inform patients about risk factors for metastasis (e.g. compliance, obesity, smoking, and alcohol use), increase cancer patient awareness of healthcare resources, and create standardized survivorship care plans for patients with metastatic cancer while validating whether their use improves outcomes for these patients. The Committee is interested in areas where assistance from other federal agencies is required to fully implement the recommendations of the Task Force's report and directs the Assistant Secretary of Defense for Health Affairs to provide a report to the House and Senate Ap-

appropriations Committees not later than 180 days after the enactment of this Act on the progress of implementing the recommendations, including an identification of any barriers to implementation.

#### MAINTAINING A HIGHLY SKILLED WORKFORCE IN MEDICAL RESEARCH

The Committee encourages the Assistant Secretary of Defense for Health Affairs, the Director of the Defense Health Agency, and the Commander of Army Futures Command to prioritize maintaining a strong workforce of highly-skilled scientists and researchers vital to conducting the medical research necessary to protect warfighters and contribute to the nation-wide response to current and future pandemics.

#### MENTAL HEALTH PROFESSIONALS

The Committee remains concerned about the shortage of current and prospective mental health care professionals for servicemembers and their families, including social workers, clinical psychologists, and psychiatrists. The Committee directs the Assistant Secretary of Defense for Health Affairs, in coordination with the Service Surgeons General, to brief the House and Senate Appropriations Committees not later than 180 days after the enactment of this Act on an assessment of eligible beneficiaries' demand for behavioral health services, including services provided through telehealth, and funding required to adequately recruit and retain behavioral health professionals required to meet such demand. The assessment shall include a review of tools, such as pay grade increases, use of special and incentive pays, and the pipeline development of increasing the number of professionals in this field through scholarships or programs through the Uniformed Services University. Additionally, the assessment should include a review of related regulations to determine what impact a change in regulations to allow the employment of clinical psychologists who graduate from schools accredited by the Psychological Clinical Science Accreditation System may have on the Military Health System.

#### ARMED FORCES RETIREMENT HOMES AND THE DEFENSE HEALTH AGENCY

The Committee notes the important role that the military health system plays for the care of the military retiree population, especially those living in the two Armed Forces Retirement Homes. As the Defense Health Agency continues to make recommendations for the rescoping of certain military treatment facilities, the Committee encourages the Director of the Defense Health Agency to take necessary steps to ensure in-patient care is available at a military treatment facility within 20 miles of each Armed Forces Retirement Home.

#### SERVICEMEMBERS AND VETERANS WITH AMYOTROPHIC LATERAL SCLEROSIS

The Committee is aware of promising research underway through the Amyotrophic Lateral Sclerosis (ALS) Research Program. The Committee encourages the Assistant Secretary of De-

fense for Health Affairs to prioritize research that can bring effective treatments to people living with ALS as soon as possible.

#### TRAUMATIC INJURY

The Committee understands the uniqueness of traumatic injuries and neurological diseases sustained by servicemembers in combat. Extramural research focused on accelerating functional recovery and rehabilitation of sensorimotor function that is also personalized to the needs of the patient would have value to injured servicemembers and their caregivers. The Committee is aware of the promising technology of wirelessly activated implantable biomedical technologies capable of focal stimulation inside nerves and encourages the Assistant Secretary of Defense for Health Affairs to explore research into such technologies to offset the effects of limb amputation, orthopedic injury and disease, and other neurodegenerative diseases.

#### PEER-REVIEWED TOXIC EXPOSURES RESEARCH PROGRAM

The Committee is concerned by the number of known and unknown potentially harmful substances that servicemembers are exposed to as part of their military service. The Committee has funded research linked to exposures through various congressionally directed medical research programs, including the Peer-Reviewed Neurotoxin Exposure Treatment Parkinson's Research Program, which started in 1997 with a focus on dopaminergic neurons that result in Parkinson's disease. Additionally, 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 Committee 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 Committee 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 Committee directs the Director, 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 Committee 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.

#### BRAIN INJURY AND DISEASE PREVENTION RESEARCH

The Committee is supportive of ongoing research and development efforts focused on the increased risk of certain conditions after a servicemember experiences traumatic brain injury. The Committee is aware of research into the relationship between traumatic brain injury and neurodegenerative diseases, such as chronic traumatic encephalopathy and Parkinson's disease. The Committee recommendation includes \$60,000,000 aimed at halting the neurodegenerative processes that follow traumatic brain injury.

#### NATIONAL DISASTER MEDICAL SYSTEM PILOT

The Committee continues to be concerned with the fracturing of the military health system and is concerned that not enough attention has been placed on medical capabilities and capacity required for the homeland defense mission.

Section 740 of the National Defense Authorization Act for Fiscal Year 2020, as amended by Section 741 of the National Defense Authorization Act for Fiscal Year 2021, authorized a pilot program on civilian and military partnerships to enhance interoperability and medical surge capability and capacity of the National Disaster Medical System. The Department of Defense Appropriations Act, 2021 included \$15,000,000 for the pilot program but the Committee is disappointed that funding was not included as part of the fiscal year 2022 budget request. The Committee recommendation includes \$15,000,000 and directs that sufficient funding be included in the budget request for fiscal year 2023.

Additionally, as was observed during the response to the COVID 19 pandemic, the nation lacks medical surge capacity beyond what is currently available. Therefore, the Committee recommendation includes \$14,000,000 for the Department of Defense to initiate investment in a joint civilian-military modular surge facility. This type of modular and/or convertible medical surge facility should be adjacent to existing medical facilities and should include laboratories, intensive care units, x-rays, and be able to use the staffing and services available in the medical facility. The initial investment in the Committee recommendation should be used to initiate facility modifications, prepare for construction, and begin development of a training curriculum necessary to activate the surge facility.

#### EXPANDED RECOVERY SERVICES FOR SERVICEMEMBERS

The Committee recognizes the unique challenges for those combatting substance use disorders, especially for men and women serving in the military. As 80 percent of those treated for substance abuse disorders within the military health system are active duty,

ongoing recovery support is essential for optimizing outcomes and maximizing readiness. To combat these issues, the Navy established the My Ongoing Recovery Experience (MORE) program in 2010 and has since enrolled more than 23,500 servicemembers. The program has reported an 88 percent abstinence success rate among those who consistently remained in recovery programming, completed MORE courses, and engaged with recovery professionals. The Committee commends the success of the Navy MORE program as a substance abuse rehabilitation program and encourages the Secretaries of the Army and the Air Force to establish similar programs for their respective Services. The Committee also encourages the Secretary of the Navy to align the Navy MORE program with a peer-based recovery program to further enable participants to successfully build and sustain a life in recovery.

#### ADVANCED ORTHOPEDIC SURGICAL TRAINING FOR MILITARY ORTHOPEDIC SURGEONS

The Committee understands that servicemembers and their families regularly undergo orthopedic procedures and that these types of musculoskeletal injuries account for a significant amount of medical separations or retirements from military service. Delivery of direct training based on best practices related to orthopedic procedures for injuries to the knee, shoulder, and other extremities has become an increasingly important readiness issue. The Committee encourages the Assistant Secretary of Defense for Health Affairs to develop military-civilian partnerships that ensure that military orthopedic health professionals are provided with advanced surgical training in arthroscopic techniques and to partner with medical professional societies that maintain best practices related to arthroscopic surgery and techniques.

#### ADDRESSING HEALTH BARRIERS TO MILITARY SERVICE

The Committee is concerned that 71 percent of Americans between the ages of 17 to 24 are ineligible for military service due to obesity, mental and other physical health conditions, or substance abuse. The Committee directs the Secretary of Defense, in coordination with the Service Secretaries, to submit a report to the congressional defense committees not later than 180 days after the enactment of this Act on existing military fitness and nutrition initiatives and campaigns. The report shall include the metrics used to assess the effectiveness of these efforts in recruiting or retaining servicemembers; the resources available to assist applicants and recruits in meeting physical fitness standards in cases where potential applicants or recruits may be disqualified due to a failure of meeting standards; the return on investment from these efforts; and the anticipated costs of the military health system for treating obesity-related health conditions across military, civilian, dependent, and retiree populations.

Additionally, the Committee recognizes that federal support for childhood nutrition, food security, physical education, mental and physical health, and substance abuse prevention benefits all Americans, including those who intend to serve in the military. The Committee believes that the Department of Defense has an obligation to both ensure a ready and fit-to-fight force and to help promote

the health of civilians. The Committee encourages the Secretary of Defense to coordinate with the Secretaries of Agriculture and Health and Human Services to identify ways that the Department could contribute to informing physical fitness or nutritional standards for children and young adults across the nation.

#### PERFORMANCE BASED MATERNITY PAYMENTS FOR FREESTANDING BIRTH CENTERS

Value-based health care is a health care delivery model in which providers, including healthcare facilities and care providers, are paid based on patient health outcomes. The Committee is aware that the Department of Defense conducted a pilot study from 2018 to 2021 to collect data on quality of care measures in maternity hospitals but understands that maternity care provided in freestanding birth centers was not studied. The Committee encourages the Assistant Secretary of Defense for Health Affairs to conduct a pilot study to evaluate the value of maternity care provided in freestanding birth centers. The pilot study could assess the feasibility of incorporating episode-based funded payments in the purchased care component of the TRICARE program by reducing co-payments or cost shares for low-risk populations of covered beneficiaries for antepartum, intrapartum, newborn and postpartum maternity care services provided by certified nurse-midwives and/or physicians within freestanding birth centers.

#### ANTIVIRAL DEVELOPMENT

The Committee is concerned that there has been insufficient focus for the development of host derived broad-spectrum antivirals as a medical countermeasure. The coronavirus pandemic demonstrated gaps in therapies available to treat emerging infectious diseases. The Committee encourages the Assistant Secretary of Defense for Health Affairs to research host-derived broad-spectrum antivirals that can treat a myriad of infectious diseases to address national security and public health threats.

#### COLLABORATION WITH MINORITY SERVING HEALTH INSTITUTIONS

The Committee encourages the Assistant Secretary of Defense for Health Affairs to work collaboratively in the health research field with Hispanic Serving Institutions, Historically Black Colleges and Universities, and other Minority Serving Institutions.

#### POST-TRAUMATIC EPILEPSY

The Committee is encouraged by the progress and results of the Team Approach to the Prevention and Treatment of Post-Traumatic Epilepsy Initiative. The Committee encourages the Director, Congressionally Medical Research Programs to support innovative research tools and identify definitive biomarkers to better detect who will develop post-traumatic epilepsy following a traumatic brain injury event.

## CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

Fiscal year 2022 budget request .....	\$1,094,352,000
Committee recommendation .....	1,094,352,000
Change from budget request .....	-----

The Committee recommends an appropriation of \$1,094,352,000 for Chemical Agents and Munitions Destruction, Defense which will provide the following program in fiscal year 2022:

### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

(In thousands of dollars)

	Budget Request	Committee Recommended	Change from Request
OPERATION AND MAINTENANCE .....	93,121	93,121	0
RESEARCH, DEVELOPMENT, TEST AND EVALUATION .....	1,001,231	1,001,231	0
TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE ..	1,094,352	1,094,352	0

## DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

Fiscal year 2022 budget request .....	\$821,908,000
Committee recommendation .....	844,996,000
Change from budget request .....	+23,088,000

The Committee recommends an appropriation of \$844,996,000 for Drug Interdiction and Counter-Drug Activities, Defense which will provide the following program in fiscal year 2022:

### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

(In thousands of dollars)

	Budget Request	Committee Recommended	Change from Request
COUNTER NARCOTICS SUPPORT .....	593,250	519,097	- 74,153
Transfer to National Guard Counter-Drug Program .....		- 33,696	
Project 1387 insufficient budget justification .....		- 25,457	
Reduce duplicative efforts .....		- 15,000	
DRUG DEMAND REDUCTION PROGRAM .....	126,024	126,024	0
NATIONAL GUARD COUNTER DRUG PROGRAM .....	96,970	194,211	97,241
Transfer from Counter-Narcotics Support .....		33,696	
Program increase .....		63,545	
NATIONAL GUARD COUNTER DRUG SCHOOLS .....	5,664	5,664	0
TOTAL, DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE .....	821,908	844,996	23,088

### DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES

The Committee recommendation includes \$519,097,000 for Counter-Narcotics Support, which supports the counter-narcotics activities of United States Northern Command and United States Southern Command, including the operations of the Joint Inter-agency Task Force South. The recommendation transfers \$33,696,000 from Counter-Narcotics Support to the National Guard Counter-Drug Program and reduces funding for international programs, which are supported elsewhere in this Act. The Committee notes that the joint explanatory statement accompanying the De-

partment of Defense Appropriations Act, 2021, directed the Secretary of Defense to ensure that international programs requested and supported by this account do not duplicate programs funded under the Defense Security Cooperation Agency in the Operation and Maintenance, Defense-Wide account. The Committee directs that any notification for funds submitted pursuant to 10 U.S.C. 284 indicate whether the notified program could be carried out pursuant to another authority or by another federal agency.

The Committee recommendation includes legislative language requiring the Secretary of Defense to notify the House and Senate Appropriations Committees not fewer than 15 days prior to the transfer of funds between projects. Such projects are those identified in the PB 47 Project Definitions budget exhibit of the fiscal year 2022 budget justification materials and other documentation supporting the budget request.

#### OFFICE OF THE INSPECTOR GENERAL

Fiscal year 2022 budget request .....	\$438,363,000
Committee recommendation .....	438,363,000
Change from budget request .....	---

The Committee recommends an appropriation of \$438,363,000 for the Office of the Inspector General which will provide the following program in fiscal year 2022:

#### EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

	Budget Request	Committee Recommended	Change from Request
OPERATION AND MAINTENANCE .....	435,918	435,918	0
PROCUREMENT .....	80	80	0
RESEARCH, DEVELOPMENT, TEST AND EVALUATION .....	2,365	2,365	0
TOTAL, OFFICE OF THE INSPECTOR GENERAL .....	438,363	438,363	0

#### AFGHANISTAN SECURITY FORCES FUND MONITORING PROGRAM ASSESSMENT

The Committee directs the Inspector General to provide an assessment of the Department of Defense program to monitor, evaluate, and oversee funds appropriated under the heading Afghanistan Security Forces Fund, and to submit a report along with recommendations to strengthen the program to the congressional defense committees not later than 90 days after the enactment of this Act.



## TITLE VII

### RELATED AGENCIES

#### NATIONAL AND MILITARY INTELLIGENCE PROGRAMS

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

#### CLASSIFIED ANNEX

Adjustments to classified programs are addressed in a separate, detailed, and comprehensive classified annex. The Intelligence Community, the Department of Defense, and other organizations are expected to fully comply with the recommendations and directions in the classified annex accompanying the Department of Defense Appropriations Act, 2022.

#### CENTRAL INTELLIGENCE AGENCY RETIREMENT AND DISABILITY SYSTEM FUND

Fiscal year 2022 budget request .....	\$514,000,000
Committee recommendation .....	514,000,000
Change from budget request .....	---

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

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

#### INTELLIGENCE COMMUNITY MANAGEMENT ACCOUNT

Fiscal year 2022 budget request .....	\$634,000,000
Committee recommendation .....	562,500,000
Change from budget request .....	-71,500,000

The Committee recommends an appropriation of \$562,500,000 for the Intelligence Community Management Account.

UNITED STATES FOREIGN INTELLIGENCE SURVEILLANCE COURT  
DECLASSIFICATION OF SIGNIFICANT DECISION, ORDERS, AND OPINIONS

The Committee directs the Director of National Intelligence, in consultation with the Attorney General, to complete, within one year of the enactment of this Act, a one-time declassification review of decisions, orders, and opinions of the Foreign Intelligence Surveillance Court or Foreign Intelligence Surveillance Court of Review that predate the USA Freedom Act, and that include a significant construction or interpretation of any provision of law. Consistent with that review, each such decision, order, or opinion shall be released to the public.

Provisions of 50 U.S.C. § 1872 shall apply, including that the Director of National Intelligence, in consultation with the Attorney General, may satisfy the review requirement by making each such decision, order, or opinion publicly available in redacted form; and that the Director of National Intelligence, in consultation with the Attorney General, may waive the requirement to declassify and release a particular decision, order or opinion if, among other things, such waiver is necessary to protect either the national security of the United States or properly classified intelligence sources and methods.

## TITLE VIII

### GENERAL PROVISIONS

Title VIII of the accompanying bill includes 156 general provisions. A brief description of each provision follows.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section 8017 provides that no funds made available in this Act shall be used for the support of any non-appropriated funds activity of the Department of Defense that procures malt beverages and wine except under certain conditions.

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

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

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

Section 8021 provides for the conveyance, without consideration, of relocatable housing units that are excess to the needs of the Air Force.

Section 8022 provides for the availability of funds for the mitigation of environmental impacts on Indian lands resulting from Department of Defense activities.

Section 8023 provides that no funding for the Defense Media Activity may be used for national or international political or psychological activities.

Section 8024 is new and provides the minimum wage for certain employees.

Section 8025 is new and provides no requirement to submit a report to Congress in any covered provision of law may be satisfied by the submission of a report to Congress pursuant to another provision of law.

Section 8026 has been amended and provides funding for the Civil Air Patrol Corporation.

Section 8027 has been amended and prohibits funding from being used to establish new Department of Defense Federally Funded Research and Development Centers (FFRDC), with certain limitations, and increases funding provided for FFRDCs.

Section 8028 defines the congressional defense committees as the Armed Services Committees of the House and Senate and the Subcommittees on Defense of the House and Senate Appropriations Committees.

Section 8029 defines the congressional intelligence committees as being the Permanent Select Committee on Intelligence of the House, the Select Committee on Intelligence of the Senate, and the Subcommittees on Defense of the Committees on Appropriations of the House and Senate.

Section 8030 provides for competitions between private firms and Department of Defense depot maintenance activities.

Section 8031 requires the Department of Defense to comply with the Buy American Act, chapter 83 of title 41, United States Code.

Section 8032 provides for the Department of Defense to procure carbon, alloy, or armor steel plate melted and rolled only in the United States and Canada.

Section 8033 provides for the revocation of blanket waivers of the Buy American Act.

Section 8034 prohibits funding from being used for the procurement of ball and roller bearings other than those produced by a domestic source and of domestic origin.

Section 8035 prohibits funding from being used to purchase supercomputers which are not manufactured in the United States.

Section 8036 provides for a waiver of "Buy American" provisions for certain cooperative programs.

Section 8037 prohibits the use of funds for the purchase or manufacture of a United States flag unless such flags are treated as covered items under section 2533a(b) of title 10, United States Code.

Section 8038 provides for the availability of funds contained in the Department of Defense Overseas Military Facility Investment Recovery Account.

Section 8039 provides authority to use operation and maintenance appropriations to purchase items having an investment item unit cost of not more than \$250,000.

Section 8040 prohibits the use of funds in contravention of the First Amendment.

Section 8041 provides authority to use operation and maintenance appropriations for the Asia Pacific Regional Initiative Program.

Section 8042 prohibits the sale of tobacco products in military resale outlets below the most competitive price in the local community.

Section 8043 prohibits the use of Working Capital Funds to purchase specified investment items.

Section 8044 provides that none of the funds appropriated for the Central Intelligence Agency shall remain available for obligation beyond the current fiscal year except for funds appropriated for the Reserve for Contingencies, the Working Capital Fund, or other programs as specified.

Section 8045 places certain limitations on the use of funds made available in this Act to establish field operating agencies.

Section 8046 places restrictions on converting to contractor performance an activity or function of the Department of Defense unless it meets certain guidelines provided.

#### (RESCISSIONS)

Section 8047 has been amended and provides for the rescission of \$1,634,954,000 from the following programs:

#### 2015 Appropriations:

Shipbuilding and Conversion, Navy:

Expeditionary fast transport .....	\$4,300,000
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#### 2020 Appropriations:

Missile Procurement, Army:

Stinger mods .....	5,000,000
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Lethal miniature aerial missile system .....	1,953,000
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Procurement of Weapons and Tracked Combat Vehicles,	
Army:	
M240 medium machine gun mods .....	4,500,000
Other Procurement, Army:	
Bridge supplemental set .....	13,000,000
Aircraft Procurement, Air Force:	
MQ-9 reaper .....	1,000,000
LAIRCM .....	30,000,000
Increment 3.2B .....	2,000,000
MQ-9 mods .....	14,000,000
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:	
Office of Local Defense Community Cooperation (pre-	
viously titled	
Office of Economic Adjustment)—noise mitigation com-	
munity partnership .....	50,000,000
DSCA International Security Cooperation Programs .....	75,000,000
Coalition support funds .....	36,000,000
Afghanistan Security Forces Fund:	
Afghanistan Security Forces Fund .....	200,000,000
Counter-ISIS Train and Equip Fund:	
Counter-ISIS Train and Equip Fund .....	200,000,000
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
Other Procurement, Army:	
Joint information environment .....	3,177,000
Aircraft Procurement, Navy:	
V-22 medium lift AP .....	15,210,000
Weapons Procurement, Navy:	
AMRAAM .....	50,000,000
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
Other Procurement, Navy:	
LHA/LHD midlife .....	3,445,000
LCS MM mission modules .....	10,246,000
LCS in-service modification .....	35,634,000
AN/SLQ-32 .....	15,000,000
Aircraft Procurement, Air Force:	
MQ-9 reaper .....	20,000,000
MQ-9 mods .....	10,700,000
B-2 post production support .....	20,000,000
F-16 post production support .....	5,000,000
Target drones .....	42,000,000
Procurement of Ammunition, Air Force:	
JDAM .....	339,289,000
B61 AP .....	12,400,000
Other Procurement, Air Force:	
Base communication infrastructure .....	80,000,000
MEECN .....	15,000,000
Research, Development, Test and Evaluation, Army:	
Technology maturation initiatives .....	30,041,000
Brilliant anti-armor submunition .....	20,175,000
Research, Development, Test and Evaluation, Navy:	
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 .....	67,000,000
Space test and training range development .....	2,000,000
Family of advanced BLOS terminals (FAB-T) .....	15,600,000
Satellite control network .....	10,000,000
Defense Working Capital Fund:	
Defense Counterintelligence and Security Agency Working Capital Fund .....	30,000,000

Section 8048 prohibits funds made available in this Act from being used to reduce authorized positions for military technicians (dual status) of the Army National Guard, Air National Guard, Army Reserve, and Air Force Reserve unless such reductions are a direct result of a reduction in military force structure.

Section 8049 prohibits funding from being obligated or expended for assistance to the Democratic People's Republic of Korea unless specifically appropriated for that purpose.

Section 8050 provides for reimbursement to the National Guard and reserve when members of the National Guard and reserve provide intelligence or counterintelligence support to the combatant commands, defense agencies, and joint intelligence activities.

Section 8051 prohibits the transfer of Department of Defense and Central Intelligence Agencies drug interdiction and counter-drug activities funds to other agencies.

Section 8052 provides funding for Red Cross and United Services Organization grants.

Section 8053 provides funds for the Small Business Innovation Research program and the Small Business Technology Transfer program.

Section 8054 prohibits funding from being used for contractor bonuses being paid due to business restructuring.

Section 8055 provides transfer authority for the pay of military personnel in connection with support and services for eligible organizations and activities outside the Department of Defense.

Section 8056 provides for the Department of Defense to dispose of negative unliquidated or unexpended balances for expired or closed accounts.

Section 8057 provides conditions for the use of equipment of the National Guard Distance Learning Project on a space-available, reimbursable basis.

Section 8058 has been amended and provides funding for Sexual Assault Prevention and Response Programs.

Section 8059 has been amended and provides for the limitation on the use of funds appropriated in title IV to procure end-items for delivery to military forces for operational training, operational use or inventory requirements.

Section 8060 prohibits funding in this Act from being used for repairs or maintenance to military family housing units.

Section 8061 provides obligation authority for new starts for advanced concept technology demonstration projects only after notification to the congressional defense committees.

Section 8062 provides that the Secretary of Defense shall provide a classified quarterly report on certain matters as directed in the classified annex accompanying this Act.

Section 8063 provides for the use of National Guard personnel to support ground-based elements of the National Ballistic Missile Defense System.

Section 8064 prohibits the use of funds made available in this Act to transfer to any nongovernmental entity ammunition held by the Department of Defense that has a center-fire cartridge and is designated as "armor piercing" except for demilitarization purposes.

Section 8065 provides for a waiver by the Chief of the National Guard Bureau or his designee for all or part of consideration in cases of personal property leases of less than one year.

Section 8066 has been amended and provides for the transfer of funds made available in this Act under Operation and Maintenance, Army to other activities of the federal government for classified purposes.

Section 8067 prohibits funding to separate, or to consolidate from within, the National Intelligence Program budget from the Department of Defense budget.

Section 8068 has been amended and provides grant authority for the construction and furnishing of additional Fisher Houses to meet the needs of military family members when confronted with the illness or hospitalization of an eligible military beneficiary.

Section 8069 provides the authority to transfer funding from operation and maintenance accounts for the Army, Navy, and Air Force to the central fund for Fisher Houses and Suites.

Section 8070 provides for the transfer of funds made available in this Act under Operation and Maintenance, Navy to the John C. Stennis Center for Public Service Development Trust Fund.

Section 8071 prohibits the modification of command and control relationships to give Fleet Forces Command operational and administrative control of United States Navy forces assigned to the Pacific fleet.

Section 8072 requires notification for the rapid acquisition and deployment of supplies and associated support services.

Section 8073 has been amended and provides funding and transfer authority for the Israeli Cooperative Programs.

Section 8074 has been amended and provides for the funding of prior year shipbuilding cost increases.

Section 8075 provides that funds made available in this Act for intelligence activities are deemed to be specifically authorized by Congress for purposes of section 504 of the National Security Act of 1947 until the enactment of the Intelligence Authorization Act for the current fiscal year.

Section 8076 prohibits funding from being used to initiate a new start program without prior written notification.

Section 8077 provides that the budget of the President for the subsequent fiscal year shall include separate budget justification documents for costs of the United States Armed Forces' participation in contingency operations.

Section 8078 prohibits funding from being used for the research, development, test, evaluation, procurement, or deployment of nuclear armed interceptors of a missile defense system.



Section 8079 makes funds available for transfer for the purposes of rapid acquisition and deployment of supplies and associated support services.

Section 8080 prohibits funding from being used to reduce or disestablish the operation of the 53rd Weather Reconnaissance Squadron of the Air Force Reserve.

Section 8081 prohibits funding from being used for the integration of foreign intelligence information unless the information has been lawfully collected and processed during conduct of authorized foreign intelligence activities.

Section 8082 prohibits funding from being used to transfer program authority relating to current tactical unmanned aerial vehicles from the Army and requires the Army to retain responsibility for and operational control of the MQ-1C Unmanned Aerial Vehicle.

Section 8083 has been amended and limits the availability of funding provided for the Office of the Director of National Intelligence beyond the current fiscal year, except for funds appropriated for research and technology and the purchase of real property, which shall remain available for the current and the following fiscal years.

Section 8084 provides limitations on the Shipbuilding and Conversion, Navy appropriation.

Section 8085 provides for the establishment of a baseline for application of reprogramming and transfer authorities for the Office of the Director of National Intelligence for the current fiscal year.

Section 8086 places limitations on the reprogramming of funds from the Department of Defense Acquisition Workforce Development Account.

Section 8087 provides for limitations on funding provided for the National Intelligence Program to be available for obligation or expenditure through a reprogramming or transfer of funds in accordance with section 102A(d) of the National Security Act of 1947 (50 U.S.C. 3024(d)).

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

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

Section 8090 prohibits the use of funds for federal contracts in excess of \$1,000,000 unless the contractor meets certain conditions.

Section 8091 provides funds for transfer to the Joint Department of Defense-Department of Veterans Affairs Medical Facility Demonstration Fund.

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

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

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

Section 8095 has been amended and authorizes the use of funds in the Shipbuilding and Conversion, Navy account to purchase five used auxiliary vessels for the National Defense Reserve Fleet.

Section 8096 directs the Secretary of Defense to post grant awards on a public Web site in a searchable format.

Section 8097 places restrictions on transfer amounts available in the Rapid Prototyping Fund.

Section 8098 prohibits the use of funds by the National Security Agency targeting United States persons under authorities granted in the Foreign Intelligence Surveillance Act.

Section 8099 prohibits the transfer of administrative or budgetary resources to the jurisdiction of another Federal agency not financed by this Act without the express authorization of Congress.

Section 8100 has been amended and provides that operation and maintenance funds may be used for any purposes related to the National Defense Reserve Fleet.

Section 8101 prohibits the use of funds to provide counterterrorism support to foreign partners unless the congressional defense committees are notified accordingly.

Section 8102 requires a report related to the National Instant Criminal Background Check System.

Section 8103 has been amended and prohibits the use of funds to award a new TAO Fleet Oiler or FFG Frigate program contract for the acquisition of certain components unless those components are manufactured in the United States.

Section 8104 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.

Section 8105 has been amended and prohibits funds for the decommissioning of any Littoral Combat Ships.

Section 8106 prohibits certain transfers from the Department of Defense Acquisition Workforce Development Account.

Section 8107 prohibits the use of funds for gaming or entertainment that involves nude entertainers.

Section 8108 prohibits the use of funding for information technology systems that do not have pornographic content filters.

Section 8109 has been amended and 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.

Section 8110 provides guidance on the implementation of the Policy for Assisted Reproductive Services for the Benefit of Seriously or Severely Ill/Injured Active Duty Service Members.

Section 8111 has been amended and places restrictions on the use of funding for military parades.

Section 8112 has been amended and provides for the use of funds to modify two F-35 Joint Strike Fighters per variant to a test configuration.

Section 8113 provides for funding available in the Defense Health Program for death gratuity payments.

Section 8114 prohibits funds in the Act from being used to enter into a contract or provide a loan to any corporation that has any unpaid Federal tax liability.

Section 8115 has been amended and provides that any advance billing for background investigation services and related services purchased from activities financed using the Defense Working Capital Fund shall be excluded from the calculation of cumulative advance billings.

Section 8116 prohibits funds from being used to transfer the National Reconnaissance Office to the Space Force.

Section 8117 requires the Secretary of Defense to make a certification prior to the transfer of any element to the Space Force.

Section 8118 is new and prohibits funds to establish a field operating agency of the Space Force.

Section 8119 provides funds appropriated under military personnel may be used for expenses for members of the Space Force.

Section 8120 is new and provides that the Commander of United States Cyber Command shall be responsible for resources for the Cyber Mission Forces.

Section 8121 has been amended and reduces funding due to favorable fuel costs.

Section 8122 has been amended and provides funds for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance for certain software pilot programs.

Section 8123 has been amended and provides funding for mitigation of military aircraft noise.

Section 8124 is new and prohibits funds from being used in a manner that does not comply with the requirements of section 365 of H.R. 1280 as passed by the House of Representatives on March 3, 2021.

Section 8125 prohibits the use of funding in contravention of the United Nations Convention Against Torture and Other Cruel, Inhuman or Degrading Treatment or Punishment.

Section 8126 provides for the obligation of funds in anticipation of receipt of contributions from the Government of Kuwait.

Section 8127 requires notification of the receipt of contributions from foreign governments.

Section 8128 provides for the procurement of certain vehicles in the United States Central Command area.

Section 8129 provides for the purchase of items of a particular investment unit cost from funding made available for operation and maintenance.

Section 8130 prohibits funding from being used in contravention of the War Powers Resolution.

Section 8131 prohibits the use of funds with respect to Iraq in contravention of the War Powers Resolution.

Section 8132 prohibits the use of funds with respect to Syria in contravention of the War Powers Resolution.

Section 8133 has been amended and provides that nothing in this Act may be construed as authorizing the use of force against Iran and North Korea.

Section 8134 prohibits the establishment of permanent bases in Iraq or Afghanistan or United States control over Iraq or Syria oil resources.

Section 8135 is new and requires the Secretary to provide a notification when a foreign base is open or closed.

Section 8136 is new and requires the Secretary of Defense to provide quarterly reports on the deployment of United States Armed Forces.

Section 8137 prohibits the use of funding under certain headings to procure or transfer man-portable air defense systems.

Section 8138 prohibits funding from being used in violation the Child Soldiers Prevention Act of 2008.

Section 8139 prohibits the transfer of additional C-130 cargo aircraft to the Afghanistan National Security Forces or Afghanistan Air Force.

Section 8140 has been amended and prohibits funds for any member of the Taliban.

Section 8141 limits the obligation of funding for the Afghanistan Security Forces Fund prior to the approval of a financial and activity plan by the Afghanistan Resources Oversight Council.

Section 8142 has been amended and provides that certain support to friendly foreign countries be made in accordance with section 8005 of this Act.

Section 8143 has been amended and provides lift and sustainment to coalition forces.

Section 8144 requires the Secretary of Defense to certify the use of funds in the Afghanistan Security Forces Fund under certain conditions.

Section 8145 is new and provides funding to the Department of Defense to provide transport and safe passage to certain Afghans.

Section 8146 has been amended and provides funding for International Security Cooperation Programs.

Section 8147 has been amended and provides funding to reimburse key cooperating nations for logistical, military, and other support.

Section 8148 has been amended and provides funding to reimburse certain countries for border security.

Section 8149 provides security assistance to the Government of Jordan.

Section 8150 provides security assistance to the Ukraine.

Section 8151 prohibits funds from being used to enter into a contract with Rosoboronexport.

Section 8152 prohibits the use of funds to provide arms, training, or other assistance to the Azov Battalion.

Section 8153 is new and prohibits funds to support military operations conducted by the Saudi-led coalition against the Houthis in the war in Yemen.

Section 8154 is new and requires an integrated security cooperation strategy for assistance for certain partner countries.

Section 8155 is new and prohibits funds to operate the detention facility at United States Naval Station, Guantanamo Bay, Cuba.

Section 8156 is new and requires the Secretary of Defense to provide information and documents regarding the December 1981 massacre in El Mozote.

**DEFENSE**  
[Community Project Funding Items]

Agency	Account	Recipient	Project	Amount	Requestor(s)
Air Force	RDTE, AF	Texas A&M University—Central Texas, Killeen, TX	Development of Cybersecurity Methodologies	\$2,990,000	Carter (TX)
Air Force	RDTE, AF	Central New York Defense Alliance, Rome, NY	Skydome: Trusted Smart-X Experimentation Environment	200,000	Tenney
Army	RDTE, A	Georgia Southern University, Statesboro, GA	Soldier Athlete Human Performance Optimization	1,500,000	Carter (GA)
Army	RDTE, A	Pennington Biomedical Research Center, Baton Rouge, LA	Center for Excellence in Military Health and Performance Enhancement	3,566,666	Graves (LA)
Army	RDTE, A	Coalition for National Trauma Research, San Antonio, TX	National Trauma Research Repository Data Population Project	1,900,000	Ruppersberger
Army	RDTE, A	APG Centennial Celebration Association, Belcamp, MD	The Discovery Center at Water's Edge	250,000	Ruppersberger
Defense-Wide	RDTE, DW	Kansas City Kansas Community College, Kansas City, KS	Automation Engineering Technology Program	1,981,000	Daivids (KS)
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
Defense-Wide	RDTE, DW	VA Tech University, Blacksburg, VA	Next Generation Explosives and Propellants	1,000,000	Gniffith
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	1,508,000	Nadler
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)
Defense-Wide	RDTE, DW	The University of Texas at San Antonio, San Antonio, TX	Cybersecurity Manufacturing Innovation Park	1,000,000	Castro (TX)
Defense-Wide	RDTE, DW	Institute for Digital Enterprise Advancement, Huntsville, AL	Systems Engineering Technician Education Initiative	550,000	Aderholt
Navy	RDTE, N	Georgia Institute of Technology, Atlanta, GA	Coastal Equity and Resilience Hub	5,000,000	Carter (GA)
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
Space Force	RDTE, SF	The Texas A&M Engineering Experiment Station, College Station, TX	Development of a Core Manipulator Joint	1,665,000	Sessions

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE I					
MILITARY PERSONNEL					
Military Personnel, Army.....	44,861,653	47,971,924	47,875,354	+3,013,501	+88,470
Military Personnel, Navy.....	33,764,579	35,496,579	35,458,629	+1,694,050	+38,250
Military Personnel, Marine Corps.....	14,557,436	14,748,337	14,505,637	+36,401	+152,500
Military Personnel, Air Force.....	32,756,171	35,047,901	35,016,131	+2,231,950	+31,770
Reserve Personnel, Army.....	5,037,119	5,223,805	5,172,605	+135,686	+57,000
Reserve Personnel, Navy.....	2,200,600	2,316,984	2,264,229	+93,659	+22,705
Reserve Personnel, Marine Corps.....	843,564	881,909	866,219	+22,655	+15,698
Reserve Personnel, Air Force.....	2,183,433	2,368,013	2,374,433	+150,940	+11,530
National Guard Personnel, Army.....	8,663,959	9,051,344	8,988,044	+324,045	+63,300
National Guard Personnel, Air Force.....	4,530,091	4,814,974	4,818,279	+288,188	+3,305
Total, Title I, Military Personnel.....	149,436,905	157,947,920	157,459,960	+8,023,055	+487,960
Total, including Tricare.....	157,607,905	167,225,095	166,787,135	+8,989,230	+487,960

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE II					
OPERATION AND MAINTENANCE					
Operation and Maintenance, Army.....	38,418,982	54,616,397	54,343,965	+15,924,983	-272,432
Operation and Maintenance, Navy.....	47,632,527	60,441,226	61,086,598	+13,454,071	+645,370
Operation and Maintenance, Marine Corps.....	7,266,184	8,024,791	9,690,653	+1,664,463	+665,862
Operation and Maintenance, Air Force.....	33,528,408	53,878,475	53,756,603	+20,228,194	-119,872
Operation and Maintenance, Space Force.....	2,482,114	3,440,712	3,372,212	+880,098	-68,500
Operation and Maintenance, Defense-Wide.....	39,048,990	44,918,366	45,306,975	+6,257,985	+388,609
Afghanistan Security Forces Fund.....	---	3,327,810	3,045,341	+3,045,341	-282,469
Counter-ISIS Train and Equip Fund (CTEF).....	---	522,000	500,000	+500,000	-22,000
Operation and Maintenance, Army Reserve.....	2,887,698	3,000,635	2,892,135	+104,237	-8,500
Operation and Maintenance, Navy Reserve.....	1,115,150	1,148,698	1,147,668	+32,548	-1,000
Operation and Maintenance, Marine Corps Reserve.....	263,464	285,050	285,550	+3,056	+1,500
Operation and Maintenance, Air Force Reserve.....	3,268,461	3,352,106	3,335,606	+67,145	-16,500
Operation and Maintenance, Army National Guard.....	7,350,837	7,647,209	7,617,209	+266,372	-30,000
Operation and Maintenance, Air National Guard.....	6,785,853	6,574,020	8,568,750	-217,103	-5,270
United States Court of Appeals for the Armed Forces.....	15,211	15,589	15,589	+378	---
Environmental Restoration, Army.....	264,285	200,806	251,008	-13,277	+50,202
Environmental Restoration, Navy.....	421,250	298,250	372,813	-48,437	+74,563
Environmental Restoration, Air Force.....	509,250	301,768	377,210	-132,040	+75,442
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

COMPARATIVE STATEMENT OF NEW BUDGET (OBBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	B111	B111 vs. Enacted	B111 vs. Request
Overseas Humanitarian, Disaster, and Civic Aid.....	147,500	110,051	150,051	+2,551	+40,000
Cooperative Threat Reduction Account.....	359,100	239,849	344,849	-15,344	+105,000
Department of Defense Acquisition Workforce Development Account.....	86,181	54,679	54,679	-33,502	-
Total, title II, Operation and Maintenance.....	192,713,468	253,623,852	254,320,053	+696,585	+696,201



COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
<b>TITLE III</b>					
<b>PROCUREMENT</b>					
Aircraft Procurement, Army.....	3,457,342	2,806,452	3,245,131	-242,211	+408,679
Missile Procurement, Army.....	3,220,541	3,556,251	3,408,591	+276,050	-89,560
Procurement of Weapons and Tracked Combat Vehicles, Army.....	3,611,897	3,875,393	3,811,516	+198,729	-64,277
Procurement of Ammunition, Army.....	2,760,140	2,158,110	2,243,933	-646,207	+65,823
Other Procurement, Army.....	8,603,112	8,873,558	8,537,213	-86,898	-336,345
Aircraft Procurement, Navy.....	19,480,200	16,477,178	16,968,875	-2,481,405	+521,587
Weapons Procurement, Navy.....	4,477,773	4,220,705	3,716,711	-755,082	-501,594
Procurement of Ammunition, Navy and Marine Corps.....	792,023	988,018	879,388	+87,365	-108,630
Shipbuilding and Conversion, Navy.....	23,268,860	22,571,059	23,486,368	+217,518	+915,339
Other Procurement, Navy.....	10,512,209	10,876,912	10,451,162	-61,047	-424,750
Procurement, Marine Corps.....	2,648,375	3,043,091	2,835,365	+186,990	-207,726
Aircraft Procurement, Air Force.....	19,212,753	15,727,659	16,628,047	-2,584,706	+900,378
Missile Procurement, Air Force.....	2,142,181	2,669,611	2,529,482	+387,281	-140,349
Procurement of Ammunition, Air Force.....	560,844	795,168	672,321	+121,477	-122,847
Other Procurement, Air Force.....	23,441,648	25,251,137	25,292,801	+1,851,153	+41,664
Procurement, Space Force.....	2,310,994	2,766,854	2,741,708	+430,713	-25,146
Procurement, Defense-Wide.....	5,837,347	5,548,212	5,413,546	+23,801	-134,666
Defense Production Act Purchases.....	174,638	340,327	385,927	+211,288	+445,000
National Guard and Reserve Equipment.....	***	***	960,000	+960,000	+960,000
Total, title III, Procurement.....	136,532,968	132,546,005	134,286,195	-2,244,773	+1,742,190

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE IV					
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Army.....	13,989,032	12,759,845	13,381,427	-587,605	+581,792
Research, Development, Test and Evaluation, Navy.....	20,025,829	22,639,362	20,694,650	+815,821	-1,944,712
Research, Development, Test and Evaluation, Air Force..	36,357,443	39,184,328	39,062,352	+7,704,959	-121,976
Research, Development, Test and Evaluation, Space Force.....	10,540,080	11,260,387	10,774,318	+234,249	-492,069
Research, Development, Test and Evaluation, Defense-Wide.....	25,932,071	25,857,875	26,239,486	+306,615	+381,611
Operational Test and Evaluation, Defense.....	257,120	216,591	216,591	-40,529	-
Total, Title IV, Research, Development, Test and Evaluation.....	107,135,184	111,954,188	110,368,824	+3,233,660	-1,595,364

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill Enacted	Bill vs. Request
TITLE V				
REVOLVING AND MANAGEMENT FUNDS				
Defense Working Capital Funds	1,473,910	1,902,000	1,902,000	428,090
Total, title V, Revolving and Management Funds	1,473,910	1,902,000	1,902,000	428,090

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE VI					
OTHER DEPARTMENT OF DEFENSE PROGRAMS					
Defense Health Program					
Operation and maintenance	30,747,659	34,182,719	34,064,317	+3,316,658	-118,402
Procurement	544,389	779,008	755,539	+211,170	-23,469
Research, development, test and evaluation	2,392,379	630,669	1,838,860	-553,889	+1,208,000
Total, Defense Health Program 1/	33,684,427	35,592,407	36,658,736	+2,973,929	+1,066,129
Chemical Agents and Munitions Destruction, Defense:					
Operation and maintenance	106,691	93,121	93,121	-13,570	---
Procurement	616	---	---	-616	---
Research, development, test and evaluation	942,493	1,001,231	1,001,231	+58,738	---
Total, Chemical Agents 2/	1,049,800	1,094,352	1,094,352	+44,552	---
Drug Interdiction and Counter-Drug Activities,					
Office of the Inspector General 1/	974,429	821,509	844,596	-69,433	+23,088
	375,439	435,263	438,363	+62,924	---
Total, title VI, Other Department of Defense	36,024,276	37,947,030	39,036,247	+3,011,972	+1,089,217
Programs					

COMPARATIVE STATEMENT OF NEW BUDGET (OPTIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	B111	B111 vs. Enacted	B111 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	562,500	-71,219	-71,500
Total, title VII, Related agencies.....	1,147,719	1,148,000	1,076,500	-71,219	-71,500

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE VIII					
GENERAL PROVISIONS					
Additional transfer authority (Sec. 8005).....	(4,000,000)	(8,000,000)	(6,000,000)	(+2,000,000)	(-2,000,000)
Indian Financing Act incentives (Sec.8020).....	25,000	---	25,000	---	+25,000
Rescissions (Sec. 8047).....	-3,248,047	---	-1,934,954	+1,613,093	-1,634,954
National grants (Sec. 8052).....	49,000	---	49,000	---	+49,000
DM, Defense-wide transfer authority (Sec.8055).....	(30,000)	(30,000)	(30,000)	---	---
Fisher House Foundation (Sec.8068).....	10,000	---	5,000	-5,000	+5,000
Fisher House DM Army Navy Air Force transfer authority (Sec.8069).....	(11,000)	(11,000)	(11,000)	---	---
John C. Stennis Center for Public Service Development (Sec.8070).....	(1,000)	---	(1,000)	---	(+1,000)
Defense Health DM transfer authority (Sec. 8081).....	(137,000)	(137,000)	(137,000)	---	---
Public Schools on Military Installations (Sec. 8109)...	284,000	---	300,000	+16,000	+300,000
Foreign Currency Fluctuations.....	-375,000	---	---	+375,000	---
Revised fuel costs (Sec. 8121).....	-1,700,362	---	-150,000	+1,550,362	-150,000
Afghan Transport.....	---	---	25,000	+25,000	+25,000
Property Services.....	---	---	---	---	---

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COMPARATIVE STATEMENT OF NEW BUDGET (OPTIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
Defense Industrial Base and Supply Chain Resiliency...					
Reauthorized Fund...	100,000			-100,000	-
Readiness...		250,000			-250,000
Transfer authority...	308,500			-308,500	-
Psychoclock timing shift...					-
Total, title VIII, General Provisions...	-4,564,909	250,000	-1,380,954	43,173,955	-1,430,954

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
TITLE IX					
OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON TERRORISM (GWO)					
Military Personnel					
Military Personnel, Army (GWO)	2,749,033			-2,748,033	
Military Personnel, Navy (GWO)	382,286			-382,286	
Military Personnel, Marine Corps (GWO)	129,943			-129,943	
Military Personnel, Air Force (GWO)	1,077,168			-1,077,168	
Reserve Personnel, Army (GWO)	33,414			-33,414	
Reserve Personnel, Navy (GWO)	11,771			-11,771	
Reserve Personnel, Marine Corps (GWO)	2,048			-2,048	
Reserve Personnel, Air Force (GWO)	18,816			-18,816	
National Guard Personnel, Army (GWO)	185,314			-185,314	
National Guard Personnel, Air Force (GWO)	5,800			-5,800	
Total, Military Personnel	4,602,593			-4,602,593	
Operation and Maintenance					
Operation & Maintenance, Army (GWO)	17,497,254			-17,497,254	
Operation & Maintenance, Navy (GWO)	11,568,393			-11,568,393	
Operation & Maintenance, Marine Corps (GWO)	1,108,667			-1,108,667	
Operation & Maintenance, Air Force (GWO)	18,432,020			-18,432,020	
Operation & Maintenance, Space Force (GWO)	77,115			-77,115	
Operation & Maintenance, Defense-Wide (GWO)	6,041,888			-6,041,888	
Operation & Maintenance, Army Reserve (GWO)	33,399			-33,399	



COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
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).....	15,226	---	---	-15,226	---
Procurement of Ammunition, Army (GWOT).....	103,875	---	---	-103,875	---
Other Procurement, Army (GWOT).....	924,823	---	---	-924,823	---
Aircraft Procurement, Navy (GWOT).....	32,905	---	---	-32,905	---
Weapons Procurement, Navy (GWOT).....	5,572	---	---	-5,572	---
Procurement of Ammunition, Navy and Marine Corps (GWOT).....	77,424	---	---	-77,424	---
Other Procurement, Navy (GWOT).....	341,612	---	---	-341,612	---
Procurement, Marine Corps (GWOT).....	47,963	---	---	-47,963	---
Aircraft Procurement, Air Force (GWOT).....	772,738	---	---	-772,738	---
Missile Procurement, Air Force (GWOT).....	223,772	---	---	-223,772	---

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
Procurement of Ammunition, Air Force (GNOT).....	785,817	---	---	-785,817	---
Other Procurement, Air Force (GNOT).....	355,339	---	---	-355,339	---
Procurement, Defense-Wide (GNOT).....	342,137	---	---	-342,137	---
National Guard and Reserve Equipment (GNOT).....	950,000	---	---	-950,000	---
Total, Procurement.....	6,370,713	---	---	-6,370,713	---
Research, Development, Test and Evaluation					
Research, Development, Test and Evaluation, Army (GNOT).....	175,824	---	---	-175,824	---
Research, Development, Test and Evaluation, Navy (GNOT).....	59,562	---	---	-59,562	---
Research, Development, Test and Evaluation, Air Force (GNOT).....	5,304	---	---	-5,304	---
Research, Development, Test and Evaluation, Defense-Wide (GNOT).....	80,818	---	---	-80,818	---
Total, Research, Development, Test and Evaluation.....	321,508	---	---	-321,508	---

COMPARATIVE STATEMENT OF NEW BUDGET (OBLIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

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

COMPARATIVE STATEMENT OF NEW BUDGET (OBIGATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill B11	Enacted B11 vs.	Request B11 vs.
Grand total	895,430,560	705,656,170	705,408,000	+9,977,500	-258,170
Appropriations	(834,028,547)	(705,656,170)	(708,043,954)	{+27,014,407}	{+1,375,784}
Cider) Act on Terrorism (GMO)	(70,538,123)	---	---	{-70,538,123}	---
Rescissions	(-3,248,047)	---	{-1,634,954}	{+1,613,093}	{-1,634,954}
Recessions (GMO)	{-1,665,122}	---	---	{+1,866,122}	---
Transfer Authority	(4,178,000)	{8,178,000}	{6,175,000}	{+2,000,000}	{-1,999,000}
(Transfer Authority) (GMO)	(2,000,000)	---	---	{-2,000,000}	---

COMPARATIVE STATEMENT OF NEW BUDGET (LEGISLATIONAL) AUTHORITY FOR 2021  
AND BUDGET REQUESTS AND AMOUNTS RECOMMENDED IN THE BILL FOR 2022  
(Amounts in thousands)

	FY 2021 Enacted	FY 2022 Request	Bill	Bill vs. Enacted	Bill vs. Request
RECAPITULATION					
Title I - Military Personnel.....	157,807,905	167,285,095	166,797,135	+8,989,230	-487,960
Title II - Operation and Maintenance.....	192,213,468	253,623,652	254,320,053	+62,108,585	+696,201
Title III - Procurement.....	136,532,968	132,546,005	134,288,195	-2,244,773	+1,742,190
Title IV - Research, Development, Test and Evaluation.....	107,135,164	111,864,188	110,368,824	+3,233,660	-1,595,364
Title V - Revolving and Management Funds.....	1,473,910	1,902,000	1,902,000	+428,090	---
Title VI - Other Department of Defense Programs.....	36,024,275	37,947,030	39,036,247	+3,011,972	+1,089,217
Title VII - Related Agencies.....	1,147,719	1,148,000	1,076,500	-71,219	-71,500
Title VIII - General Provisions.....	-4,554,909	250,000	-1,380,954	+3,173,955	-1,630,954
Title IX - Global War on Terrorism (GWOT).....	68,650,000	---	---	-68,650,000	---
Total, Department of Defense.....	896,430,500	708,666,170	708,408,000	+9,977,500	-258,170
Total, mandatory and discretionary.....	896,475,500	708,711,170	708,453,000	+9,977,500	-258,170

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