



DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

The following is an explanation of the effects of this Act, which makes appropriations for the Department of Defense for fiscal year 2020. Unless otherwise noted, references to the House and Senate reports are to House Report 116-84 and Senate Report 116-103, respectively. The language contained in the House and Senate reports warrant full compliance and carry the same weight as language included in this explanatory statement unless specifically addressed to the contrary in the bill or this explanatory statement. While repeating some language from the House or Senate reports for emphasis, this explanatory statement does not intend to negate the language referred to above unless expressly provided herein.

DEFINITION OF PROGRAM, PROJECT, AND ACTIVITY

For the purposes of the Balanced Budget and Emergency Deficit Control Act of 1985 (Public Law 99-177), as amended by the Balanced Budget and Emergency Deficit Control Reaffirmation Act of 1987 (Public Law 100-119), and by the Budget Enforcement Act of 1990 (Public Law 101-508), the terms “program, project, and activity” for appropriations contained in this Act shall be defined as the most specific level of budget items identified in the Department of Defense Appropriations Act, 2020, the related classified annexes and explanatory statements, and the P-1 and R-1 budget justification documents as subsequently modified by congressional action.

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

At the time the President submits the budget request for fiscal year 2021, the Secretary of Defense is directed to transmit to the congressional defense committees budget justification documents to be known as the “M-1” and the “O-1” which shall identify, at the budget activity, activity group, and sub-activity group level, the amounts requested by the President to be appropriated to the Department of Defense for military personnel and operation and maintenance in any budget request, or amended budget request, for fiscal year 2021.

REPROGRAMMING GUIDANCE FOR BASE AND OVERSEAS CONTINGENCY
OPERATIONS FUNDING

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

Also, the Under Secretary of Defense (Comptroller) is directed to continue to provide the congressional defense committees annual DD Form 1416 reports for titles I and II and quarterly, spreadsheet-based DD Form 1416 reports for Service and defense-wide accounts in titles III and IV of this Act. Reports for titles III and IV shall comply with guidance specified in the explanatory statement accompanying the Department of Defense Appropriations Act, 2006. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20 percent of the procurement or research, development, test and evaluation line, whichever is less. These thresholds are cumulative from the base for

reprogramming value as modified by any adjustments. Therefore, if the combined value of transfers into or out of a military personnel (M-1); an operation and maintenance (O-1); a procurement (P-1); or a research, development, test and evaluation (R-1) line exceeds the identified threshold, the Secretary of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this statement.

FUNDING INCREASES

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

CONGRESSIONAL SPECIAL INTEREST ITEMS

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

CLASSIFIED ANNEX

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

JOINT ENTERPRISE DEFENSE INFRASTRUCTURE

The agreement notes that the Chief Information Officer of the Department of Defense has provided the report required in House Report 116-84 regarding the Department's plans to transition to a multi-cloud environment and satisfied the conditions that prohibited the obligation and expenditure of funds to migrate data and applications to the Joint Enterprise Defense Infrastructure cloud.

The agreement retains a requirement in House Report 116-84 requiring the Chief Information Officer of the Department of Defense to submit quarterly reports on the implementation of its cloud strategy.

MILCLOUD 2.0

It is understood that the Department of Defense is currently operating milCloud 2.0, a commercially-owned and operated cloud that is housed in two Defense Information Systems Agency data centers, that offers cloud-based infrastructure, platform, and software as-a-service solutions. In May 2018, the Chief Information Officer of the Department of Defense distributed a memorandum directing all Fourth Estate agencies to migrate to milCloud 2.0. Per this direction, the Department of Defense is encouraged to complete migration to milCloud 2.0 by the end of fiscal year 2020.

SPECIAL OPERATIONS COMMAND OBLIGATION AND EXPENDITURE PLANS

The existing budget justification and quarterly execution data lack certain details to analyze trends and program office performance. To facilitate appropriate oversight, the Commander of the United States Special Operations Command is directed to provide the

House and Senate Appropriations Committees detailed spend plans at the project level for the procurement and research and development appropriations accounts. The spend plans shall include all active fiscal years, with monthly obligation and target benchmarks. The first spend plan should be provided not later than 45 days after the enactment of this Act, and subsequent spend plans should be provided annually with the submission of the budget request.

CIVILIAN PAY RAISE

The agreement recognizes the value of the Department of Defense civilian workforce and acknowledges the 3.1 percent federal pay raise for all federal civilian employees.

F-15EX

The agreement includes \$1,052,900,000 for eight F-15EX fighters and transfers \$364,400,000 from Aircraft Procurement, Air Force to Research, Development, Test and Evaluation, Air Force for the procurement of two test aircraft and half of the requested amount for non-recurring engineering. Of the funds provided in Aircraft Procurement, Air Force for the remaining six F-15EX aircraft, no more than \$64,800,000 for long-lead materials may be obligated until the Secretary of the Air Force submits a report to the congressional defense committees with the following documentation, or the milestone C-equivalents under Section 804 middle tier acquisition authority, to include an approved program acquisition strategy; a capability production document; a life-cycle cost estimate; a life-cycle sustainment plan; a test and evaluation master plan; and a post-production fielding strategy. Additionally, the Secretary of the Air Force is directed to

include F-15EX program updates and progress towards critical milestones in the Section 804 triannual reports to Congress. Finally, the Secretary of the Air Force is directed to submit to the congressional defense committees not later than 60 days after the enactment of this Act a report with a comprehensive review of options to address the Air Force fighter capacity shortfall. This language replaces the language under the heading “F-15EX” in Senate Report 116-103.

TITLE I - MILITARY PERSONNEL

The agreement provides \$150,262,882,000 in Title I, Military Personnel, as follows:

~~(INSERT MILPERS RECAP TABLE)~~ insert 7A

SUMMARY OF MILITARY PERSONNEL END STRENGTH

	Fiscal year 2020				
	Fiscal year 2019 authorized	Budget Request	Final Bill	Change from request	Change from fiscal year 2019
Active Forces (End Strength):					
Army.....	487,500	480,000	480,000	---	-7,500
Navy.....	335,400	340,500	340,500	---	5,100
Marine Corps.....	186,100	186,200	186,200	---	100
Air Force.....	329,100	332,800	332,800	---	3,700
Total, Active Forces.....	1,338,100	1,339,500	1,339,500	---	1,400
Guard and Reserve Forces (End Strength):					
Army Reserve.....	199,500	189,500	189,500	---	-10,000
Navy Reserve.....	59,100	59,000	59,000	---	-100
Marine Corps Reserve.....	38,500	38,500	38,500	---	---
Air Force Reserve.....	70,000	70,100	70,100	---	100
Army National Guard.....	343,500	336,000	336,000	---	-7,500
Air National Guard.....	107,100	107,700	107,700	---	600
Total, Selected Reserve.....	817,700	800,800	800,800	---	-16,900
<hr/>					
Total, Military Personnel.....	2,155,800	2,140,300	2,140,300	---	-15,500

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
60000	RECAPITULATION	
60100	MILITARY PERSONNEL, ARMY.....	43,347,472 42,746,972
60200	MILITARY PERSONNEL, NAVY.....	31,831,199 31,710,431
60300	MILITARY PERSONNEL, MARINE CORPS.....	14,175,211 14,098,666
60400	MILITARY PERSONNEL, AIR FORCE.....	31,284,959 31,239,149
60500	RESERVE PERSONNEL, ARMY.....	4,964,671 4,922,087
60600	RESERVE PERSONNEL, NAVY.....	2,123,947 2,115,997
60700	RESERVE PERSONNEL, MARINE CORPS.....	838,854 833,604
60800	RESERVE PERSONNEL, AIR FORCE.....	2,038,040 2,014,190
60900	NATIONAL GUARD PERSONNEL, ARMY.....	8,808,305 8,704,320
61000	NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,063,845 4,060,651
61100	GRAND TOTAL, TITLE I, MILITARY PERSONNEL.....	143,476,503 142,446,067
61110	GRAND TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	7,816,815 7,816,815
61150	GRAND TOTAL, MILITARY PERSONNEL.....	151,293,318 150,262,882

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SUMMARY OF GUARD AND RESERVE FULL-TIME STRENGTH

	Fiscal year 2020				Change from fiscal year 2019
	Fiscal year 2019 authorized	Budget Request	Final Bill	Change from request	
Active Guard and Reserve:					
Army Reserve	16,386	16,511	16,511	---	125
Navy Reserve	10,110	10,155	10,155	---	45
Marine Corps Reserve	2,261	2,386	2,386	---	125
Air Force Reserve	3,849	4,431	4,431	---	582
Army National Guard	30,595	30,595	30,595	---	---
Air National Guard	19,861	22,637	22,637	---	2,776
Total, Full-Time Support.....	83,062	86,715	86,715	---	3,653

MILITARY PERSONNEL OVERVIEW

The agreement provides the resources required for 1,339,500 active forces and 800,800 selected reserve forces, as requested and authorized by current law, in order to meet operational needs for fiscal year 2020. The agreement also provides the funding necessary to support a 3.1 percent pay raise for all military personnel, as authorized, effective January 1, 2020.

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

The Secretary of Defense is directed to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2020 appropriations accounts not later than 60 days after the enactment of this Act. The Secretary of Defense is prohibited from executing any reprogramming or transfer of funds for any purpose other than originally

appropriated until the aforementioned report is submitted to the House and Senate Defense Appropriations Subcommittees.

The Secretary of Defense is directed to use the normal prior approval reprogramming procedures to transfer funds in the Services' military personnel accounts between budget activities in excess of \$10,000,000.

MILITARY PERSONNEL SPECIAL INTEREST ITEMS

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

MILITARY PERSONNEL, ARMY

The agreement provides \$42,746,972,000 for Military Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 10A-C

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

50 MILITARY PERSONNEL, ARMY		
100 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
150 BASIC PAY.....	7,521,813	7,521,813
200 RETIRED PAY ACCRUAL.....	2,327,136	2,327,136
220 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	75,832	75,832
250 BASIC ALLOWANCE FOR HOUSING.....	2,173,982	2,173,982
300 BASIC ALLOWANCE FOR SUBSISTENCE.....	289,916	289,916
350 INCENTIVE PAYS.....	94,521	94,521
400 SPECIAL PAYS.....	357,377	357,377
450 ALLOWANCES.....	198,232	198,232
500 SEPARATION PAY.....	56,700	56,700
550 SOCIAL SECURITY TAX.....	574,217	574,217
600 TOTAL, BUDGET ACTIVITY 1.....	13,669,726	13,669,726
650 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
700 BASIC PAY.....	13,774,829	13,774,829
750 RETIRED PAY ACCRUAL.....	4,264,203	4,264,203
770 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	96,028	96,028
800 BASIC ALLOWANCE FOR HOUSING.....	4,684,587	4,684,587
850 INCENTIVE PAYS.....	88,082	88,082
900 SPECIAL PAYS.....	1,115,638	1,115,638
950 ALLOWANCES.....	731,968	731,968
1000 SEPARATION PAY.....	266,807	266,807
1050 SOCIAL SECURITY TAX.....	1,053,774	1,053,774
1100 TOTAL, BUDGET ACTIVITY 2.....	26,075,916	26,075,916
1150 ACTIVITY 3: PAY AND ALLOWANCES OF CADETS		
1200 ACADEMY CADETS.....	90,098	90,098
1250 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
1300 BASIC ALLOWANCE FOR SUBSISTENCE.....	1,234,543	1,234,543
1350 SUBSISTENCE-IN-KIND.....	661,633	661,633
1400 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	50	50
1450 TOTAL, BUDGET ACTIVITY 4.....	1,896,226	1,896,226

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(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

1500 ACTIVITY 5: PERMANENT CHANGE OF STATION		
1550 ACCESSION TRAVEL.....	139,802	139,802
1600 TRAINING TRAVEL.....	141,782	141,782
1650 OPERATIONAL TRAVEL.....	433,985	433,985
1700 ROTATIONAL TRAVEL.....	669,799	669,799
1750 SEPARATION TRAVEL.....	214,770	214,770
1800 TRAVEL OF ORGANIZED UNITS.....	1,812	1,812
1850 NON-TEMPORARY STORAGE.....	698	698
1900 TEMPORARY LODGING EXPENSE.....	60,824	60,824
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1950 TOTAL, BUDGET ACTIVITY 5.....	1,663,472	1,663,472
2000 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
2050 APPREHENSION OF MILITARY DESERTERS.....	234	234
2100 INTEREST ON UNIFORMED SERVICES SAVINGS.....	128	128
2150 DEATH GRATUITIES.....	42,600	42,600
2200 UNEMPLOYMENT BENEFITS.....	68,731	68,731
2250 EDUCATION BENEFITS.....	6,006	6,006
2300 ADOPTION EXPENSES.....	496	496
2350 TRANSPORTATION SUBSIDY.....	11,623	11,623
2400 PARTIAL DISLOCATION ALLOWANCE.....	74	74
2450 RESERVE OFFICERS TRAINING CORPS (ROTC).....	105,698	105,698
2500 JUNIOR ROTC.....	29,746	30,246
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2550 TOTAL, BUDGET ACTIVITY 6.....	265,336	265,836
2600 LESS REIMBURSABLES.....	-313,302	-313,302
2650 UNDISTRIBUTED ADJUSTMENT.....	---	-601,000
	=====	=====
2700 TOTAL, ACTIVE FORCES, ARMY.....	43,347,472	42,746,972
6300 TOTAL, TITLE I, MILITARY PERSONNEL, ARMY.....	43,347,472	42,746,972
	=====	=====
6310 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	2,186,006	2,186,006
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6350 TOTAL, MILITARY PERSONNEL, ARMY.....	45,533,478	44,932,978
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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
BA-6: OTHER MILITARY PERSONNEL COSTS		
JUNIOR ROTC	29,746	30,246
Program increase		500
UNDISTRIBUTED ADJUSTMENTS		-601,000

100

MILITARY PERSONNEL, NAVY

The agreement provides \$31,710,431,000 for Military Personnel, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ _____ e

~~(INSERT PROJECT LEVEL TABLE)~~ ———— insert 11a-C

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

6400 MILITARY PERSONNEL, NAVY		
6450 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
6500 BASIC PAY.....	4,561,662	4,561,662
6550 RETIRED PAY ACCRUAL.....	1,411,830	1,411,830
6560 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	59,653	59,653
6600 BASIC ALLOWANCE FOR HOUSING.....	1,599,286	1,599,286
6650 BASIC ALLOWANCE FOR SUBSISTENCE.....	172,715	172,715
6700 INCENTIVE PAYS.....	167,877	167,877
6750 SPECIAL PAYS.....	457,901	457,901
6800 ALLOWANCES.....	120,046	120,046
6850 SEPARATION PAY.....	43,367	43,367
6900 SOCIAL SECURITY TAX.....	347,668	347,668
6950 TOTAL, BUDGET ACTIVITY 1.....	8,942,005	8,942,005

7000 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
7050 BASIC PAY.....	10,279,881	10,279,881
7100 RETIRED PAY ACCRUAL.....	3,186,556	3,186,556
7120 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	100,891	100,891
7150 BASIC ALLOWANCE FOR HOUSING.....	4,785,627	4,785,627
7200 INCENTIVE PAYS.....	109,034	109,034
7250 SPECIAL PAYS.....	1,006,625	1,006,625
7300 ALLOWANCES.....	624,120	624,120
7350 SEPARATION PAY.....	84,737	84,737
7400 SOCIAL SECURITY TAX.....	786,411	786,411
7450 TOTAL, BUDGET ACTIVITY 2.....	20,963,882	20,963,882

7500 ACTIVITY 3: PAY AND ALLOWANCES OF MIDSHIPMEN		
7550 MIDSHIPMEN.....	85,203	85,203

7600 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
7650 BASIC ALLOWANCE FOR SUBSISTENCE.....	847,463	847,463
7700 SUBSISTENCE-IN-KIND.....	432,870	432,870
7750 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	5	5
7800 TOTAL, BUDGET ACTIVITY 4.....	1,280,338	1,280,338

(11A)

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

7850 ACTIVITY 5: PERMANENT CHANGE OF STATION		
7900 ACCESSION TRAVEL.....	91,470	91,470
7950 TRAINING TRAVEL.....	102,482	102,482
8000 OPERATIONAL TRAVEL	231,305	231,305
8050 ROTATIONAL TRAVEL	280,181	280,181
8100 SEPARATION TRAVEL.....	113,668	113,668
8150 TRAVEL OF ORGANIZED UNITS.....	30,258	30,258
8200 NON-TEMPORARY STORAGE.....	13,695	13,695
8250 TEMPORARY LODGING EXPENSE.....	16,398	16,398
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8350 TOTAL, BUDGET ACTIVITY 5.....	879,457	879,457
8400 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
8450 APPREHENSION OF MILITARY DESERTERS.....	37	37
8500 INTEREST ON UNIFORMED SERVICES SAVINGS.....	1,252	1,252
8550 DEATH GRATUITIES.....	22,100	22,100
8600 UNEMPLOYMENT BENEFITS.....	41,522	41,522
8650 EDUCATION BENEFITS.....	8,745	8,745
8700 ADOPTION EXPENSES.....	178	178
8750 TRANSPORTATION SUBSIDY.....	4,270	4,270
8800 PARTIAL DISLOCATION ALLOWANCE.....	34	34
8900 RESERVE OFFICERS TRAINING CORPS (ROTC).....	21,458	22,258
8950 JUNIOR ROTC.....	15,259	15,529
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9000 TOTAL, BUDGET ACTIVITY 6.....	114,855	115,925
9050 LESS REIMBURSABLES.....	-434,541	-434,541
9100 UNDISTRIBUTED ADJUSTMENT.....	---	-121,838
	=====	=====
9200 TOTAL, ACTIVE FORCES, NAVY.....	31,831,199	31,710,431
11000 TOTAL, TITLE I, MILITARY PERSONNEL, NAVY.....	31,831,199	31,710,431
	=====	=====
11010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	1,549,638	1,549,638
	=====	=====
11050 TOTAL, MILITARY PERSONNEL, NAVY.....	33,380,837	33,260,069
	=====	=====

11B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
BA-6: OTHER MILITARY PERSONNEL COSTS		
RESERVE OFFICERS TRAINING CORPS (ROTC)	21,458	22,258
Program increase		800
JUNIOR ROTC	15,259	15,529
Program increase		270
UNDISTRIBUTED ADJUSTMENT		-121,838
Historical unobligated balances		-104,138
Rate adjustments		-17,700

(11C)

MILITARY PERSONNEL, MARINE CORPS

The agreement provides \$14,098,666,000 for Military Personnel, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ _____ e

~~(INSERT PROJECT LEVEL TABLE)~~ _____ insert 12A-C

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

12000 MILITARY PERSONNEL, MARINE CORPS		
12050 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
12100 BASIC PAY.....	1,715,465	1,715,465
12150 RETIRED PAY ACCRUAL.....	530,702	530,702
12170 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	27,890	27,890
12200 BASIC ALLOWANCE FOR HOUSING.....	537,566	537,566
12250 BASIC ALLOWANCE FOR SUBSISTENCE.....	67,825	67,825
12300 INCENTIVE PAYS.....	51,099	51,099
12350 SPECIAL PAYS.....	4,125	4,125
12400 ALLOWANCES.....	50,685	50,685
12450 SEPARATION PAY.....	15,112	15,112
12500 SOCIAL SECURITY TAX.....	131,233	131,233
12550 TOTAL, BUDGET ACTIVITY 1.....	3,131,702	3,131,702

12600 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
12650 BASIC PAY.....	5,349,883	5,349,883
12700 RETIRED PAY ACCRUAL.....	1,653,002	1,653,002
12720 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	113,526	113,526
12750 BASIC ALLOWANCE FOR HOUSING.....	1,599,187	1,599,187
12800 INCENTIVE PAYS.....	7,937	7,937
12850 SPECIAL PAYS.....	204,034	204,034
12900 ALLOWANCES.....	315,811	315,811
12950 SEPARATION PAY.....	94,173	94,173
13000 SOCIAL SECURITY TAX.....	408,685	408,685
13050 TOTAL, BUDGET ACTIVITY 2.....	9,746,238	9,746,238

13100 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
13150 BASIC ALLOWANCE FOR SUBSISTENCE.....	430,434	430,434
13200 SUBSISTENCE-IN-KIND.....	400,978	400,978
13250 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	10	10
13300 TOTAL, BUDGET ACTIVITY 4.....	831,422	831,422

12A

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

13350 ACTIVITY 5: PERMANENT CHANGE OF STATION		
13400 ACCESSION TRAVEL.....	53,167	53,167
13450 TRAINING TRAVEL.....	18,363	18,363
13500 OPERATIONAL TRAVEL.....	167,868	167,868
13550 ROTATIONAL TRAVEL.....	111,200	111,200
13600 SEPARATION TRAVEL.....	77,577	77,577
13650 TRAVEL OF ORGANIZED UNITS.....	682	682
13700 NON-TEMPORARY STORAGE.....	10,505	10,505
13750 TEMPORARY LODGING EXPENSE.....	4,345	4,345
	-----	-----
13850 TOTAL, BUDGET ACTIVITY 5.....	443,707	443,707
13900 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
13950 APPREHENSION OF MILITARY DESERTERS.....	273	273
14000 INTEREST ON UNIFORMED SERVICES SAVINGS.....	19	19
14050 DEATH GRATUITIES.....	13,100	13,100
14100 UNEMPLOYMENT BENEFITS.....	26,734	26,734
14150 EDUCATION BENEFITS.....	3,611	3,611
14200 ADOPTION EXPENSES.....	100	100
14250 TRANSPORTATION SUBSIDY.....	1,487	1,487
14300 PARTIAL DISLOCATION ALLOWANCE.....	108	108
14350 SGLI EXTRA HAZARD PAYMENTS.....	2,075	2,075
14400 JUNIOR ROTC.....	3,866	3,936
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14450 TOTAL, BUDGET ACTIVITY 6.....	51,373	51,443
14500 LESS REIMBURSABLES.....	-29,231	-29,231
14600 UNDISTRIBUTED ADJUSTMENT.....	---	-76,615
	=====	=====
14650 TOTAL, ACTIVE FORCES, MARINE CORPS.....	14,175,211	14,098,666
16000 TOTAL, TITLE I, MILITARY PERSONNEL, MARINE CORPS....	14,175,211	14,098,666
	=====	=====
16010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375).....	859,667	859,667
	=====	=====
16050 TOTAL, MILITARY PERSONNEL, MARINE CORPS.....	15,034,878	14,958,333
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(12B)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
BA-6: OTHER MILITARY PERSONNEL COSTS		
JUNIOR ROTC	3,866	3,936
Program increase		70
UNDISTRIBUTED ADJUSTMENT		-76,615
Historical unobligated balances		-58,115
Rate adjustments		-18,500

(120)

MILITARY PERSONNEL, AIR FORCE

The agreement provides \$31,239,149,000 for Military Personnel, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert-13A - C

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

17000 MILITARY PERSONNEL, AIR FORCE		
17050 ACTIVITY 1: PAY AND ALLOWANCES OF OFFICERS		
17100 BASIC PAY.....	5,419,404	5,419,404
17150 RETIRED PAY ACCRUAL.....	1,666,501	1,666,501
17170 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	68,361	68,361
17200 BASIC ALLOWANCE FOR HOUSING.....	1,630,177	1,630,177
17250 BASIC ALLOWANCE FOR SUBSISTENCE.....	204,432	204,432
17300 INCENTIVE PAYS.....	349,589	349,589
17350 SPECIAL PAYS.....	337,986	337,986
17400 ALLOWANCES.....	119,612	119,612
17450 SEPARATION PAY.....	43,588	43,588
17500 SOCIAL SECURITY TAX.....	413,905	413,905
17550 TOTAL, BUDGET ACTIVITY 1.....	10,253,555	10,253,555
17600 ACTIVITY 2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
17650 BASIC PAY.....	9,912,417	9,912,417
17700 RETIRED PAY ACCRUAL.....	3,061,954	3,061,954
17720 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	77,645	77,645
17750 BASIC ALLOWANCE FOR HOUSING.....	4,017,647	4,017,647
17800 INCENTIVE PAYS.....	61,239	61,239
17850 SPECIAL PAYS.....	337,702	337,702
17900 ALLOWANCES.....	630,858	630,858
17950 SEPARATION PAY.....	136,265	136,265
18000 SOCIAL SECURITY TAX.....	758,300	758,300
18050 TOTAL, BUDGET ACTIVITY 2.....	18,994,027	18,994,027
18100 ACTIVITY 3: PAY AND ALLOWANCES OF CADETS		
18150 ACADEMY CADETS.....	80,959	80,959
18200 ACTIVITY 4: SUBSISTENCE OF ENLISTED PERSONNEL		
18250 BASIC ALLOWANCE FOR SUBSISTENCE.....	1,047,572	1,047,572
18300 SUBSISTENCE-IN-KIND.....	159,138	159,138
18350 FAMILY SUBSISTENCE SUPPLEMENTAL ALLOWANCE.....	3	3
18400 TOTAL, BUDGET ACTIVITY 4.....	1,206,713	1,206,713

13A

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

18450 ACTIVITY 5: PERMANENT CHANGE OF STATION		
18500 ACCESSION TRAVEL.....	102,944	102,944
18550 TRAINING TRAVEL.....	59,189	59,189
18600 OPERATIONAL TRAVEL	284,731	284,731
18650 ROTATIONAL TRAVEL	453,527	453,527
18700 SEPARATION TRAVEL.....	162,547	162,547
18750 TRAVEL OF ORGANIZED UNITS.....	4,347	4,347
18800 NON-TEMPORARY STORAGE.....	26,215	26,215
18850 TEMPORARY LODGING EXPENSE.....	33,162	33,162
	-----	-----
18950 TOTAL, BUDGET ACTIVITY 5.....	1,126,662	1,126,662
19000 ACTIVITY 6: OTHER MILITARY PERSONNEL COSTS		
19050 APPREHENSION OF MILITARY DESERTERS.....	12	12
19100 INTEREST ON UNIFORMED SERVICES SAVINGS.....	2,299	2,299
19150 DEATH GRATUITIES.....	15,000	15,000
19200 UNEMPLOYMENT BENEFITS.....	22,571	22,571
19300 EDUCATION BENEFITS.....	28	28
19350 ADOPTION EXPENSES.....	395	395
19400 TRANSPORTATION SUBSIDY.....	2,718	2,718
19450 PARTIAL DISLOCATION ALLOWANCE.....	492	492
19550 RESERVE OFFICERS TRAINING CORPS (ROTC).....	46,429	46,429
19600 JUNIOR ROTC.....	20,439	20,819
	-----	-----
19650 TOTAL, BUDGET ACTIVITY 6.....	110,383	110,763
19700 LESS REIMBURSABLES.....	-487,340	-487,340
19750 UNDISTRIBUTED ADJUSTMENT.....	---	-46,190
	=====	=====
19800 TOTAL, ACTIVE FORCES, AIR FORCE.....	31,284,959	31,239,149
21000 TOTAL, TITLE I, MILITARY PERSONNEL, AIR FORCE.....	31,284,959	31,239,149
	=====	=====
21010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY)(PUBLIC LAW 108-375).....	1,514,694	1,514,694
	=====	=====
21050 TOTAL, MILITARY PERSONNEL, AIR FORCE.....	32,799,653	32,753,843
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
BA-6: OTHER MILITARY PERSONNEL COSTS		
JUNIOR ROTC	20,439	20,819
Program increase		380
UNDISTRIBUTED ADJUSTMENT		
Historical unobligated balances		-46,190
		-46,190

RESERVE PERSONNEL, ARMY

The agreement provides \$4,922,087,000 for Reserve Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 14A - B

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
23000 RESERVE PERSONNEL, ARMY		
23050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
23100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	1,591,993	1,591,993
23150 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	45,748	45,748
23200 PAY GROUP F TRAINING (RECRUITS).....	201,613	201,613
23250 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	6,717	6,717
23300 MOBILIZATION TRAINING	2,373	2,373
23350 SCHOOL TRAINING.....	240,785	240,785
23400 SPECIAL TRAINING.....	382,398	382,398
23450 ADMINISTRATION AND SUPPORT.....	2,358,782	2,358,782
23470 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	11,205	11,205
23500 EDUCATION BENEFITS.....	22,714	22,714
23550 HEALTH PROFESSION SCHOLARSHIP	61,392	61,392
23600 OTHER PROGRAMS	38,951	38,951
23650 TOTAL, BUDGET ACTIVITY 1.....	4,964,671	4,964,671
23800 UNDISTRIBUTED ADJUSTMENT.....	---	-42,584
24000 TOTAL, TITLE I, RESERVE PERSONNEL, ARMY.....	4,964,671	4,922,087
24010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	394,612	394,612
24050 TOTAL, RESERVE PERSONNEL, ARMY.....	5,359,283	5,316,699

14A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENT		-42,584
Historical unobligated balances		-39,310
Rate adjustments		-3,274

(14B)

RESERVE PERSONNEL, NAVY

The agreement provides \$2,115,997,000 for Reserve Personnel, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 15A-B

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
26000 RESERVE PERSONNEL, NAVY		
26050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
26100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	712,650	712,650
26150 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	7,839	7,839
26200 PAY GROUP F TRAINING (RECRUITS).....	54,101	54,101
26250 MOBILIZATION TRAINING.....	12,537	12,537
26300 SCHOOL TRAINING.....	56,593	56,593
26350 SPECIAL TRAINING.....	124,738	124,738
26400 ADMINISTRATION AND SUPPORT.....	1,091,583	1,091,583
26420 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	6,326	6,326
26450 EDUCATION BENEFITS.....	1,116	1,116
26500 HEALTH PROFESSION SCHOLARSHIP.....	56,464	56,464
26550 TOTAL, BUDGET ACTIVITY 1.....	2,123,947	2,123,947
26600 UNDISTRIBUTED ADJUSTMENT.....	---	-7,950
27000 TOTAL, TITLE I, RESERVE PERSONNEL, NAVY.....	2,123,947	2,115,997
27010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	136,926	136,926
27050 TOTAL, RESERVE PERSONNEL, NAVY.....	2,260,873	2,252,923

15A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENT		-7,950
Historical unobligated balances		-5,510
Rate adjustments		-2,440

RESERVE PERSONNEL, MARINE CORPS

The agreement provides \$833,604,000 for Reserve Personnel, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 16A-B

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

28000 RESERVE PERSONNEL, MARINE CORPS		
28050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
28100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	290,938	290,938
28150 PAY GROUP B TRAINING (BACKFILL FOR ACT DUTY).....	46,716	46,716
28200 PAY GROUP F TRAINING (RECRUITS).....	139,238	139,238
28300 MOBILIZATION TRAINING.....	1,422	1,422
28350 SCHOOL TRAINING.....	24,532	24,532
28400 SPECIAL TRAINING.....	53,388	53,388
28450 ADMINISTRATION AND SUPPORT.....	264,360	264,360
28470 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	3,759	3,759
28500 PLATOON LEADER CLASS.....	8,283	8,283
28550 EDUCATION BENEFITS.....	6,218	6,218
28600 TOTAL, BUDGET ACTIVITY 1.....	838,854	838,854
28700 UNDISTRIBUTED ADJUSTMENT.....	---	-5,250
29000 TOTAL, TITLE I, RESERVE PERSONNEL, MARINE CORPS.....	838,854	833,604
29010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	77,427	77,427
29050 TOTAL, RESERVE PERSONNEL, MARINE CORPS.....	916,281	911,031

16A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENT		-5,250
Historical unobligated balances		-4,250
Rate adjustments		-1,000

(16B)

RESERVE PERSONNEL, AIR FORCE

The agreement provides \$2,014,190,000 for Reserve Personnel, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 17A-B

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
30000 RESERVE PERSONNEL, AIR FORCE		
30050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
30100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	722,193	722,193
30150 PAY GROUP B TRAINING (BACKFILL FOR ACTIVE DUTY).....	102,802	102,802
30200 PAY GROUP F TRAINING (RECRUITS).....	54,454	54,454
30250 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	2,669	2,669
30300 MOBILIZATION TRAINING.....	760	760
30350 SCHOOL TRAINING.....	169,565	169,565
30400 SPECIAL TRAINING.....	329,355	329,355
30450 ADMINISTRATION AND SUPPORT.....	570,532	570,532
30470 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	3,390	3,390
30500 EDUCATION BENEFITS.....	15,395	15,395
30550 HEALTH PROFESSION SCHOLARSHIP.....	64,474	64,474
30600 OTHER PROGRAMS (ADMIN & SUPPORT).....	2,451	2,451
30650 TOTAL, BUDGET ACTIVITY 1.....	2,038,040	2,038,040
30750 UNDISTRIBUTED ADJUSTMENT.....	---	-23,850
31000 TOTAL, TITLE I, RESERVE PERSONNEL, AIR FORCE.....	2,038,040	2,014,190
31010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	139,697	139,697
31050 TOTAL, RESERVE PERSONNEL, AIR FORCE.....	2,177,737	2,153,887

17A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
UNDISTRIBUTED ADJUSTMENT		-23,850
Historical unobligated balances		-22,850
Rate adjustments		-1,000

178

NATIONAL GUARD PERSONNEL, ARMY

The agreement provides \$8,704,320,000 for National Guard Personnel, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ *e*

~~(INSERT PROJECT LEVEL TABLE)~~ *insert 18A-B*

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
32000 NATIONAL GUARD PERSONNEL, ARMY		
32050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
32100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	2,607,324	2,607,324
32150 PAY GROUP F TRAINING (RECRUITS).....	539,742	539,742
32200 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	44,401	44,401
32250 SCHOOL TRAINING.....	529,639	529,639
32300 SPECIAL TRAINING.....	813,283	832,903
32350 ADMINISTRATION AND SUPPORT.....	4,182,249	4,182,749
32370 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	19,194	19,194
32400 EDUCATION BENEFITS.....	72,473	72,473
32450 TOTAL, BUDGET ACTIVITY 1.....	8,808,305	8,828,425
32600 UNDISTRIBUTED ADJUSTMENT.....	---	-125,305
32610 TRAUMA TRAINING.....	---	1,200
33000 TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, ARMY.....	8,808,305	8,704,320
33010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	703,636	703,636
33050 TOTAL, NATIONAL GUARD PERSONNEL, ARMY.....	9,511,941	9,407,956

18A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
BA-1: RESERVE COMPONENT TRAINING AND SUPPORT		
SPECIAL TRAINING	813,283	832,903
Program increase - State Partnership Program		1,620
Program increase - Cyber Mission Assurance Teams		2,000
Program increase - critical cybersecurity skillsets		1,000
Program increase - Wildfire training		5,000
Program increase - Northern Strike		10,000
ADMINISTRATION AND SUPPORT	4,182,249	4,182,749
Program increase - Preventative mental health program		500
UNDISTRIBUTED ADJUSTMENT		-125,305
Historical unobligated balances		-112,105
Rate adjustments		-13,200
TRAUMA TRAINING		1,200

183

NATIONAL GUARD PERSONNEL, AIR FORCE

The agreement provides \$4,060,651,000 for National Guard Personnel, Air Force,
as follows:

~~(INSERT COMPUTER TABLE)~~ *e*

~~(INSERT PROJECT LEVEL TABLE)~~ *insert 19A-13*

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

34000 NATIONAL GUARD PERSONNEL, AIR FORCE		
34050 ACTIVITY 1: RESERVE COMPONENT TRAINING AND SUPPORT		
34100 PAY GROUP A TRAINING (15 DAYS & DRILLS 24/48).....	935,299	935,299
34150 PAY GROUP F TRAINING (RECRUITS).....	81,644	81,644
34200 PAY GROUP P TRAINING (PIPELINE RECRUITS).....	7,969	7,969
34250 SCHOOL TRAINING.....	357,890	357,890
34300 SPECIAL TRAINING.....	218,104	220,680
34350 ADMINISTRATION AND SUPPORT.....	2,438,963	2,439,463
34370 THRIFT SAVINGS PLAN MATCHING CONTRIBUTIONS.....	10,083	10,083
34400 EDUCATION BENEFITS.....	13,893	13,893
34450 TOTAL, BUDGET ACTIVITY 1.....	4,063,845	4,066,921
34700 UNDISTRIBUTED ADJUSTMENT.....	---	-8,470
34720 TRAUMA TRAINING.....	---	2,200
35000 TOTAL, TITLE I, NATIONAL GUARD PERSONNEL, AIR FORCE.	4,063,845	4,060,651
35010 TOTAL, TRICARE ACCRUAL PAYMENTS (PERMANENT, INDEFINITE AUTHORITY) (PUBLIC LAW 108-375).....	254,512	254,512
35050 TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE.....	4,318,357	4,315,163

19A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

M-1	Budget Request	Final Bill
BA-1: RESERVE COMPONENT TRAINING AND SUPPORT		
SPECIAL TRAINING	218,104	220,680
Program increase - State Partnership Program		576
Program increase - Wildfire training		2,000
ADMINISTRATION AND SUPPORT	2,438,963	2,439,463
Program increase - Preventative mental health program		500
UNDISTRIBUTED ADJUSTMENT		-8,470
Historical unobligated balances		-7,470
Rate adjustments		-1,000
TRAUMA TRAINING		2,200

TITLE II – OPERATION AND MAINTENANCE

The agreement provides \$199,415,415,000 in Title II, Operation and Maintenance, as follows:

~~(INSERT O&M RECAP TABLE)~~ (insert 20A)

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

RECAPITULATION		
OPERATION & MAINTENANCE, ARMY.....	22,797,873	39,597,083
OPERATION & MAINTENANCE, NAVY.....	25,952,718	47,622,510
OPERATION & MAINTENANCE, MARINE CORPS.....	3,928,045	7,868,468
OPERATION & MAINTENANCE, AIR FORCE.....	21,278,499	42,736,365
OPERATION & MAINTENANCE, SPACE FORCE.....	72,436	40,000
OPERATION & MAINTENANCE, DEFENSE-WIDE.....	37,399,341	37,491,073
OPERATION & MAINTENANCE, ARMY RESERVE.....	1,080,103	2,984,494
OPERATION & MAINTENANCE, NAVY RESERVE.....	261,284	1,102,616
OPERATION & MAINTENANCE, MARINE CORPS RESERVE.....	61,090	289,076
OPERATION & MAINTENANCE, AIR FORCE RESERVE.....	2,231,445	3,227,318
OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.....	3,335,755	7,461,947
OPERATION & MAINTENANCE, AIR NATIONAL GUARD.....	3,612,156	6,655,292
UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES...	14,771	14,771
ENVIRONMENTAL RESTORATION, ARMY.....	207,518	251,700
ENVIRONMENTAL RESTORATION, NAVY.....	335,932	385,000
ENVIRONMENTAL RESTORATION, AIR FORCE.....	302,744	485,000
ENVIRONMENTAL RESTORATION, DEFENSE-WIDE.....	9,105	19,002
ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES	216,499	275,000
OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID.....	108,600	135,000
COOPERATIVE THREAT REDUCTION ACCOUNT.....	338,700	373,700
DOD ACQUISITION WORKFORCE DEVELOPMENT FUND.....	400,000	400,000
	=====	=====
GRAND TOTAL, OPERATION & MAINTENANCE.....	123,944,614	199,415,415
	=====	=====

20A

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

The Secretary of Defense is directed to submit the Base for Reprogramming (DD Form 1414) for each of the fiscal year 2020 appropriation accounts not later than 60 days after the enactment of this Act. The Secretary of Defense is prohibited from executing any reprogramming or transfer of funds for any purpose other than originally appropriated until the aforementioned report is submitted to the House and Senate Defense Appropriations Subcommittees.

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

Army:

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

Navy:

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

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

Marine Corps:

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

Air Force:

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

Air Force Reserve:

Primary combat forces

Air National Guard:

Aircraft operations

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

Operation and Maintenance, Army:

Recruiting and advertising

Operation and Maintenance, Army National Guard:

Other personnel support/recruiting and advertising

OPERATION AND MAINTENANCE SPECIAL INTEREST ITEMS

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

90/10 RULE

The agreement adopts the reporting requirements contained under the heading “90/10 Rule” in House Report 116-84 but changes the submission date to not later than 180 days after the enactment of this Act. Further, the Secretary of Defense is directed to work collaboratively with the Secretaries of Education and Veterans Affairs on an authoritative data set that includes the total funding level to each for-profit institution for the most recent academic year from all sources provided by the Departments of Education, Veterans Affairs, and Defense to more accurately derive estimates for the reporting requirement to the congressional committees.

DEFENSE PERSONAL PROPERTY PROGRAM

The agreement supports the desire and commitment of the United States Transportation Command (USTRANSCOM) to improve the current system for the

movement of personal effects within the Department of Defense. However, concerns over USTRANSCOM's plan to award a single source contract remain. Therefore, in addition to any other requirements, this agreement directs that no such single source award may be signed before April 1, 2020; and before the Commander of USTRANSCOM has provided the congressional defense committees with a description of anticipated cost savings broken out by Service across the Future Years Defense Program.

WIND ENERGY

The agreement does not adopt the language under the heading "Wind Energy" in House Report 116-84.

OPERATION AND MAINTENANCE, ARMY

The agreement provides \$39,597,083,000 for Operation and Maintenance, Army,
as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 25A-F

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, ARMY		
BUDGET ACTIVITY 1: OPERATING FORCES		
10		
LAND FORCES		
MANEUVER UNITS.....	---	1,652,722
20		
MODULAR SUPPORT BRIGADES.....	---	122,815
30		
ECHELONS ABOVE BRIGADES.....	---	709,356
40		
THEATER LEVEL ASSETS.....	---	878,891
50		
LAND FORCES OPERATIONS SUPPORT.....	---	1,227,477
60		
AVIATION ASSETS.....	---	1,255,606
LAND FORCES READINESS		
70		
FORCE READINESS OPERATIONS SUPPORT.....	408,031	3,021,735
80		
LAND FORCES SYSTEMS READINESS.....	417,069	402,569
90		
LAND FORCES DEPOT MAINTENANCE.....	---	1,208,327
LAND FORCES READINESS SUPPORT		
100		
BASE OPERATIONS SUPPORT.....	---	7,651,933
110		
FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION..	4,326,840	4,130,840
120		
MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	405,612	405,612
COMBATANT COMMAND SUPPORT		
160		
US AFRICA COMMAND.....	251,511	234,511
170		
US EUROPEAN COMMAND.....	146,358	146,358
180		
US SOUTHERN COMMAND.....	191,840	209,840
190		
US FORCES KOREA.....	57,603	57,603
200		
CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	423,156	423,156
210		
CYBER SPACE ACTIVITIES - CYBERSECURITY.....	551,185	551,185
TOTAL, BUDGET ACTIVITY 1.....	7,179,205	24,290,536
BUDGET ACTIVITY 2: MOBILIZATION		
MOBILITY OPERATIONS		
220		
STRATEGIC MOBILITY.....	380,577	384,123
230		
ARMY PREPOSITIONED STOCKS.....	362,942	373,081
240		
INDUSTRIAL PREPAREDNESS.....	4,637	4,637
TOTAL, BUDGET ACTIVITY 2.....	748,156	761,841

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
250	ACCESSION TRAINING OFFICER ACQUISITION.....	157,175 157,175
260	RECRUIT TRAINING.....	55,739 55,739
270	ONE STATION UNIT TRAINING.....	62,300 62,300
280	SENIOR RESERVE OFFICERS TRAINING CORPS.....	538,357 539,857
BASIC SKILL AND ADVANCED TRAINING		
290	SPECIALIZED SKILL TRAINING.....	969,813 969,813
300	FLIGHT TRAINING.....	1,234,049 1,224,049
310	PROFESSIONAL DEVELOPMENT EDUCATION.....	218,338 214,673
320	TRAINING SUPPORT.....	554,659 550,659
RECRUITING AND OTHER TRAINING AND EDUCATION		
330	RECRUITING AND ADVERTISING.....	716,056 700,709
340	EXAMINING.....	185,034 185,034
350	OFF-DUTY AND VOLUNTARY EDUCATION.....	214,275 214,275
360	CIVILIAN EDUCATION AND TRAINING.....	147,647 147,647
370	JUNIOR RESERVE OFFICERS TRAINING CORPS.....	173,812 176,812
	TOTAL, BUDGET ACTIVITY 3.....	5,227,254 5,198,742

BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
LOGISTICS OPERATIONS		
390	SERVICEWIDE TRANSPORTATION.....	559,229 559,229
400	CENTRAL SUPPLY ACTIVITIES.....	929,944 928,944
410	LOGISTICS SUPPORT ACTIVITIES.....	629,981 629,981
420	AMMUNITION MANAGEMENT.....	458,771 451,771

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
2750 SERVICEWIDE SUPPORT		
2800 ADMINISTRATION.....	428,768	418,768
2850 SERVICEWIDE COMMUNICATIONS.....	1,512,736	1,472,736
2900 MANPOWER MANAGEMENT.....	272,738	272,738
2950 OTHER PERSONNEL SUPPORT.....	391,869	361,869
3000 OTHER SERVICE SUPPORT.....	1,901,165	1,877,580
3050 ARMY CLAIMS ACTIVITIES.....	198,765	198,765
3100 REAL ESTATE MANAGEMENT.....	226,248	226,248
3120 FINANCIAL MANAGEMENT AND AUDIT READINESS.....	315,489	305,489
3130 INTERNATIONAL MILITARY HEADQUARTERS.....	427,254	427,254
3210 MISC. SUPPORT OF OTHER NATIONS.....	43,248	43,248
3250 OTHER PROGRAMS		
3252 OTHER PROGRAMS.....	1,347,053	1,367,344
3300 TOTAL, BUDGET ACTIVITY 4.....	9,643,258	9,541,964
3455 OVERESTIMATION OF CIVILIAN FTE TARGETS.....	---	-107,000
3470 TRAINING FOR GAPS IN EMERGING TECHNOLOGIES.....	---	3,000
3593 HISTORICAL UNOBLIGATION.....	---	-100,000
3705 COORDINATION BETWEEN ACTIVE AND RESERVE COMPONENTS....	---	2,000
3708 IMPROVED OUTER TACTICAL VESTS FOR FEMALE SOLDIERS.....	---	5,000
3720 P.L. 115-68 IMPLEMENTATION AT COCOMS.....	---	1,000
4000 TOTAL, OPERATION AND MAINTENANCE, ARMY.....	22,797,873	39,597,083

250

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
111 MANEUVER UNITS	0	1,652,722
Transfer from title IX		1,735,922
Unjustified growth		-76,700
Program decrease unaccounted for		-6,500
112 MODULAR SUPPORT BRIGADES	0	122,815
Transfer from title IX		127,815
Unjustified growth		-5,000
113 ECHELONS ABOVE BRIGADES	0	709,356
Transfer from title IX		716,356
Unjustified growth		-7,000
114 THEATER LEVEL ASSETS	0	878,891
Transfer from title IX		890,891
Unjustified growth		-12,000
115 LAND FORCES OPERATIONS SUPPORT	0	1,227,477
Transfer from title IX		1,232,477
Unjustified growth		-5,000
116 AVIATION ASSETS	0	1,255,606
Transfer from title IX		1,355,606
Projected underexecution		-100,000
121 FORCE READINESS OPERATIONS SUPPORT	408,031	3,021,735
Transfer from title IX		2,724,284
Excess FTE request		-22,580
Unjustified growth		-75,000
Program increase - enhanced lightweight hard armor		25,000
Restoring acquisition accountability - synthetic training environment		-10,000
Program decrease unaccounted for		-20,000
Reduce duplication		-8,000
122 LAND FORCES SYSTEMS READINESS	417,069	402,569
Restore Blue Force Shield decrease		5,500
Program decrease unaccounted for		-20,000
123 LAND FORCES DEPOT MAINTENANCE	0	1,208,327
Transfer from title IX		1,258,327
Excess growth		-50,000
131 BASE OPERATIONS SUPPORT	0	7,651,933
Transfer from title IX		7,672,933
Program increase - childcare programs		50,000
Unjustified growth		-70,000
Program decrease - remove one-time fiscal year 2019 cost		-6,000
Program increase - PFAS remediation		5,000

25D

O-1	Budget Request	Final Bill
132 FACILITIES SUSTAINMENT, RESTORATION, & MODERNIZATION	4,326,840	4,130,840
Unjustified growth		-200,000
Program increase - Advanced Manufacturing COE sustainment		4,000
141 US AFRICA COMMAND	251,511	234,511
Transfer to Title IX - personnel recovery and casualty evacuation support		-17,000
143 US SOUTHERN COMMAND	191,840	209,840
Program increase - SOUTHCOM Multi-Mission support vessel		18,000
211 STRATEGIC MOBILITY	380,577	384,123
Program increase - upgrades to prepositioned hospital centers in EUCOM		3,546
212 ARMY PREPOSITIONED STOCKS	362,942	373,081
Program increase - upgrades to prepositioned hospital centers in EUCOM		10,139
314 SENIOR RESERVE OFFICERS TRAINING CORPS	538,357	539,857
Program increase - ROTC helicopter training program		1,500
322 FLIGHT TRAINING	1,234,049	1,224,049
Excess growth		-10,000
323 PROFESSIONAL DEVELOPMENT EDUCATION	218,338	214,673
Excess growth		-3,665
324 TRAINING SUPPORT	554,659	550,659
Excess travel request		-4,000
331 RECRUITING AND ADVERTISING	716,056	700,709
Unjustified growth		-10,000
Unjustified growth for accessioning information environment		-5,347
335 JUNIOR RESERVE OFFICERS TRAINING CORPS	173,812	176,812
Program increase		3,000
422 CENTRAL SUPPLY ACTIVITIES	929,944	928,944
Excess personnel		-2,000
Program increase - Advanced Manufacturing COE technology		1,000
424 AMMUNITION MANAGEMENT	458,771	451,771
Unjustified growth		-7,000
431 ADMINISTRATION	428,768	418,768
Unjustified growth		-10,000
432 SERVICEWIDE COMMUNICATIONS	1,512,736	1,472,736
Program decrease unaccounted for		-40,000

25E

O-1	Budget Request	Final Bill
434 OTHER PERSONNEL SUPPORT	391,869	361,869
Unjustified growth		-30,000
435 OTHER SERVICE SUPPORT	1,901,165	1,877,580
Unjustified growth in headquarters		-5,085
Program increase - Capitol Fourth		1,500
Unjustified growth		-20,000
438 FINANCIAL MANAGEMENT AND AUDIT READINESS	315,489	305,489
Program decrease unaccounted for		-10,000
411 OTHER PROGRAMS	1,347,053	1,367,344
Classified adjustment		-39
Program increase - SOUTHCOM ISR operations and technical network analysis center		10,330
Program increase - SOUTHCOM SAR		10,000
TRAINING FOR GAPS IN EMERGING TECHNOLOGIES		3,000
OVERESTIMATION OF CIVILIAN FTE TARGETS		-107,000
COORDINATION BETWEEN ACTIVE AND RESERVE COMPONENTS		2,000
IMPROVED OUTER TACTICAL VESTS FOR FEMALE SOLDIERS		5,000
HISTORICAL UNOBLIGATION		-100,000
PROGRAM INCREASE - PUBLIC LAW 115-68 IMPLEMENTATION AT COMBATANT COMMANDS		1,000

OPERATION AND MAINTENANCE, NAVY

The agreement provides \$47,622,510,000 for Operation and Maintenance, Navy,
as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 26A-G

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, NAVY		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10	MISSION AND OTHER FLIGHT OPERATIONS.....	--- 4,359,109
20	FLEET AIR TRAINING.....	2,284,828 2,234,828
30	AVIATION TECHNICAL DATA AND ENGINEERING SERVICES.....	--- 59,299
40	AIR OPERATIONS AND SAFETY SUPPORT.....	155,896 155,896
50	AIR SYSTEMS SUPPORT.....	719,107 719,107
60	AIRCRAFT DEPOT MAINTENANCE.....	--- 1,154,181
70	AIRCRAFT DEPOT OPERATIONS SUPPORT.....	60,402 59,202
80	AVIATION LOGISTICS.....	1,241,421 1,219,421
SHIP OPERATIONS		
90	MISSION AND OTHER SHIP OPERATIONS.....	--- 3,082,533
100	SHIP OPERATIONS SUPPORT AND TRAINING.....	1,031,792 1,029,792
110	SHIP DEPOT MAINTENANCE.....	--- 7,061,298
120	SHIP DEPOT OPERATIONS SUPPORT.....	--- 2,069,141
COMBAT COMMUNICATIONS/SUPPORT		
130	COMBAT COMMUNICATIONS.....	1,378,856 1,364,856
150	SPACE SYSTEMS AND SURVEILLANCE.....	276,245 273,745
160	WARFARE TACTICS.....	675,209 675,209
170	OPERATIONAL METEOROLOGY AND OCEANOGRAPHY.....	389,516 389,516
180	COMBAT SUPPORT FORCES.....	1,536,310 1,486,310
190	EQUIPMENT MAINTENANCE.....	161,579 161,579
210	COMBATANT COMMANDERS CORE OPERATIONS.....	59,521 64,321
220	COMBATANT COMMANDERS DIRECT MISSION SUPPORT.....	93,978 96,478
230	MILITARY INFORMATION SUPPORT OPERATIONS.....	8,641 8,641
240	CYBERSPACE ACTIVITIES.....	496,385 496,385

26A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

260	WEAPONS SUPPORT FLEET BALLISTIC MISSILE.....	1,423,339 1,423,339
280	WEAPONS MAINTENANCE.....	924,069 885,032
290	OTHER WEAPON SYSTEMS SUPPORT	540,210 537,110
300	BASE SUPPORT ENTERPRISE INFORMATION TECHNOLOGY.....	1,131,627 1,121,627
310	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	3,029,634 3,009,634
320	BASE OPERATING SUPPORT.....	--- 4,399,943
	TOTAL, BUDGET ACTIVITY 1.....	17,618,565 39,597,532
BUDGET ACTIVITY 2: MOBILIZATION		
330	READY RESERVE AND PREPOSITIONING FORCES SHIP PREPOSITIONING AND SURGE.....	942,902 922,902
340	READY RESERVE FORCE.....	352,044 352,044
360	ACTIVATIONS/INACTIVATIONS SHIP ACTIVATIONS/INACTIVATIONS.....	427,555 402,555
370	MOBILIZATION PREPAREDNESS FLEET HOSPITAL PROGRAM.....	137,597 137,597
390	COAST GUARD SUPPORT.....	24,604 24,604
	TOTAL, BUDGET ACTIVITY 2.....	1,884,702 1,839,702

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
400	ACCESSION TRAINING OFFICER ACQUISITION.....	150,765 150,765
410	RECRUIT TRAINING.....	11,584 11,584
420	RESERVE OFFICERS TRAINING CORPS.....	159,133 159,433
BASIC SKILLS AND ADVANCED TRAINING		
430	SPECIALIZED SKILL TRAINING.....	911,316 901,316
450	PROFESSIONAL DEVELOPMENT EDUCATION.....	185,211 185,211
460	TRAINING SUPPORT.....	267,224 267,224
RECRUITING, AND OTHER TRAINING AND EDUCATION		
470	RECRUITING AND ADVERTISING.....	209,252 208,552
480	OFF-DUTY AND VOLUNTARY EDUCATION.....	88,902 88,902
490	CIVILIAN EDUCATION AND TRAINING.....	67,492 67,492
500	JUNIOR ROTC.....	55,164 55,164

	TOTAL, BUDGET ACTIVITY 3.....	2,106,043 2,095,643
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
SERVICEWIDE SUPPORT		
510	ADMINISTRATION.....	1,143,358 1,128,358
530	CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT.....	178,342 175,342
540	MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....	418,413 418,413
LOGISTICS OPERATIONS AND TECHNICAL SUPPORT		
580	SERVICEWIDE TRANSPORTATION.....	157,465 157,465
600	PLANNING, ENGINEERING AND DESIGN.....	485,397 485,397
610	ACQUISITION AND PROGRAM MANAGEMENT.....	654,137 647,137

26C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
650 SECURITY PROGRAMS		
NAVAL INVESTIGATIVE SERVICE.....	718,061	718,061
OTHER PROGRAMS		
OTHER PROGRAMS.....	588,235	596,060
TOTAL, BUDGET ACTIVITY 4.....	4,343,408	4,326,233
CIVILIAN FTE.....	---	-30,000
TRAINING FOR GAPS IN EMERGING TECHNOLOGIES.....	---	3,000
HISTORICAL UNOBLIGATION.....	---	-110,000
REMOVAL OF ONE TIME FY 2019 INCREASE.....	---	-100,000
P.L. 115-68 IMPLEMENTATION AT COCOMS.....	---	400
TOTAL, OPERATION AND MAINTENANCE, NAVY.....	25,952,718	47,622,510

26D

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A MISSION AND OTHER FLIGHT OPERATIONS	0	4,359,109
Transfer from title IX		4,409,109
Projected underexecution		-50,000
1A2A FLEET AIR TRAINING	2,284,828	2,234,828
Projected underexecution		-50,000
1A3A AVIATION TECHNICAL DATA AND ENGINEERING SERVICES	0	59,299
Transfer from title IX		59,299
1A5A AIRCRAFT DEPOT MAINTENANCE	0	1,154,181
Transfer from title IX		1,154,181
1A6A AIRCRAFT DEPOT OPERATIONS SUPPORT	60,402	59,202
Excess increase		-1,200
1A9A AVIATION LOGISTICS	1,241,421	1,219,421
Projected underexecution		-22,000
1B1B MISSION AND OTHER SHIP OPERATIONS	0	3,082,533
Transfer from title IX		3,182,533
Unjustified growth		-100,000
1B2B SHIP OPERATIONS SUPPORT AND TRAINING	1,031,792	1,029,792
Excess civilian increase		-2,000
1B4B SHIP DEPOT MAINTENANCE	0	7,061,298
Transfer from title IX		8,061,298
Transfer to OP,N line 23x for Pacific Fleet ship maintenance pilot program		-1,000,000
1B5B SHIP DEPOT OPERATIONS SUPPORT	0	2,069,141
Transfer from title IX		2,073,641
Unjustified growth		-7,500
Program increase - river maintenance dredging		3,000
1C1C COMBAT COMMUNICATIONS	1,378,856	1,364,856
Unjustified growth		-14,000
1C3C SPACE SYSTEMS AND SURVEILLANCE	276,245	273,745
Unjustified growth		-2,500
1C6C COMBAT SUPPORT FORCES	1,536,310	1,486,310
Unjustified growth		-50,000
1CCH COMBATANT COMMANDERS CORE OPERATIONS	59,521	64,321
Program increase - Asia Pacific Regional Initiative		4,800
1CCM COMBATANT COMMANDERS DIRECT MISSION SUPPORT	93,978	96,478
Program increase - enduring posture site assessments		2,500
INDOPACOM		

O-1	Budget Request	Final Bill
1D4D WEAPONS MAINTENANCE	924,069	885,032
Insufficient justification		-29,037
Unjustified growth		-10,000
1D7D OTHER WEAPON SYSTEMS SUPPORT	540,210	537,110
Classified adjustment		-3,100
BSIT ENTERPRISE INFORMATION TECHNOLOGY	1,131,627	1,121,627
Unjustified growth		-10,000
BSM1 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	3,029,634	3,009,634
Program increase - life and safety at public shipyards		20,000
Unjustified growth		-40,000
BSS1 BASE OPERATING SUPPORT	0	4,399,943
Transfer from title IX		4,414,943
Program increase - childcare programs		20,000
Unjustified growth		-35,000
2A1F SHIP PREPOSITIONING AND SURGE	942,902	922,902
Unjustified growth		-20,000
2B2G SHIP ACTIVATIONS/INACTIVATIONS	427,555	402,555
Unjustified growth		-25,000
3A3J RESERVE OFFICERS TRAINING CORPS	159,133	159,433
Program increase		300
3B1K SPECIALIZED SKILL TRAINING	911,316	901,316
Insufficient justification		-10,000
3C1L RECRUITING AND ADVERTISING	209,252	208,552
Insufficient justification		-5,000
Program increase - Sea Cadets		4,300
4A1M ADMINISTRATION	1,143,358	1,128,358
Unjustified growth		-15,000
4A3M CIVILIAN MANPOWER AND PERSONNEL MANAGEMENT	178,342	175,342
Excess civilian growth		-3,000
4B3N ACQUISITION AND PROGRAM MANAGEMENT	654,137	647,137
Unjustified growth		-7,000
4CAP OTHER PROGRAMS	588,235	596,060
Transfer from title IX		3,300
Classified adjustment		4,525

O-1

Budget Request

Final Bill

TRAINING FOR GAPS IN EMERGING TECHNOLOGIES	3,000
OVERESTIMATION OF CIVILIAN FTE TARGETS	-30,000
HISTORICAL UNOBLIGATION	-110,000
REMOVAL OF ONE-TIME FISCAL YEAR 2019 INCREASE	-100,000
PROGRAM INCREASE - PUBLIC LAW 115-68 IMPLEMENTATION AT COMBATANT COMMANDS	400

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PRIVATE CONTRACTED SHIP MAINTENANCE

The agreement includes a pilot program to fund the private contract ship maintenance planned for the Pacific Fleet in fiscal year 2020 in Other Procurement, Navy, as proposed in Senate Report 116-103. The funding in Other Procurement, Navy line 23x Ship Maintenance, Repair and Modernization shall only be for such activities executed in the United States and is hereby designated a congressional special interest item. The Secretary of the Navy shall provide the congressional defense committees the following in relation to the pilot -

1. An execution plan for the funding in Other Procurement, Navy line 23x, Ship Maintenance, Repair and Modernization. This shall be submitted to the congressional defense committees prior to the execution of funding and shall include the following data points for each ship included in the pilot program:
 - a. Ship class, hull number and name of each ship;
 - b. Type of availability;
 - c. Location of the work;
 - d. Execution plan start date;
 - e. Execution plan end date; and
 - f. Execution plan funded amount (in thousands).

2. Not later than 15 days after the end of each fiscal quarter, an updated plan to the first report showing:
 - a. Ship class, hull number and name of each ship;
 - b. Type of availability;

- c. Location of the work;
- d. Actual or current estimate of start date;
- e. Actual or current estimate of end date;
- f. Actual funded amount and estimate to complete (in thousands); and

the quarterly update shall also include an execution review of the funding in line 1B4B Ship Depot Maintenance in Operation and Maintenance, Navy.

ANALYSIS OF AIRCRAFT CARRIER, SURFACE SHIP, AND SUBMARINE MAINTENANCE DELAYS

Completing maintenance on time is integral to supporting fleet readiness, meeting strategic and operational requirements, and ensuring the Navy's ships reach their expected service lives. From numerous reports, the Navy continues to face persistent maintenance delays that affect the majority of its maintenance efforts and threaten its attempt to restore readiness. Since fiscal year 2014, Navy ships have spent over 27,000 more days in maintenance than expected, with 70 percent of maintenance periods on average experiencing delays. There is some preliminary evidence that the Navy has begun pilot efforts to analyze maintenance challenges for some elements of the fleet. However, these efforts are not comprehensively examining the root causes of delays across the entire fleet. Further, absent such an analysis, the Navy is not well positioned to develop a plan to address its persistent maintenance delays.

To address these issues, the Secretary of the Navy is directed to assign responsibility to conduct a comprehensive and systematic analysis to identify the underlying causes of aircraft carrier, surface ship, and submarine maintenance delays and submit a report on its findings not later than 180 days after the enactment of this Act to the congressional defense committees and to the Government Accountability Office.

This report shall incorporate results-oriented elements, including analytically-based goals; metrics to measure progress; and the identification of required resources, risks, and stakeholders to achieve those goals. The Secretary of the Navy shall update the congressional defense committees annually thereafter on its progress to achieve the goals set forth in the plan. Further, the Comptroller General of the United States is directed to submit a review of the report to the congressional defense committees not later than 90 days after receiving the report from the Navy.

JET NOISE

Communities situated around military installations with airfields have expressed concerns of the negative effects that jet noise may have on them. It is acknowledged that modeling aircraft noise, as opposed to measuring it, provides the most accurate assessment of impacts on a community. Therefore, the Secretary of the Navy is directed to model the level of jet noise generated by Navy aviation assets and to make that data available to the public.

OPERATION AND MAINTENANCE, MARINE CORPS

The agreement provides \$7,868,468,000 for Operation and Maintenance, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 30A-C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
160	SERVICEWIDE SUPPORT SERVICEWIDE TRANSPORTATION.....	29,894 29,894
170	ADMINISTRATION.....	384,352 383,002
	SECURITY PROGRAMS SECURITY PROGRAMS.....	52,057 50,751
	TOTAL, BUDGET ACTIVITY 4.....	466,303 463,647
	HISTORICAL UNOBLIGATION.....	--- -11,000
	TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS.....	3,928,045 7,868,468
	=====	=====

30B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A OPERATIONAL FORCES	0	948,224
Transfer from title IX		968,224
Unjustified growth		-30,000
Program increase - Marine hearing enhancement and protection		10,000
1A2A FIELD LOGISTICS	1,278,533	1,264,533
Unjustified growth		-14,000
1A3A DEPOT MAINTENANCE	0	232,991
Transfer from title IX		232,991
1B1B MARITIME PREPOSITIONING	0	100,396
Transfer from title IX		100,396
1CCY CYBERSPACE ACTIVITIES	203,580	201,580
Excess civilian growth		-2,000
BSM1 BASE SUPPORT	1,115,742	1,559,034
Transfer from title IX		443,292
BSS1 BASE OPERATING SUPPORT	0	2,243,776
Transfer from title IX		2,253,776
Unjustified growth		-40,000
Program increase - childcare programs		20,000
Program increase - AFFF requirements		10,000
3B4D TRAINING SUPPORT	407,315	408,715
Excess civilian growth		-1,300
Unjustified increase		-2,300
Program increase - general intelligence training		5,000
4A4G ADMINISTRATION	384,352	383,002
Excess civilian growth		-750
Unjustified growth		-600
4A7G SECURITY PROGRAMS	52,057	50,751
Classified adjustment		-1,306
HISTORICAL UNOBLIGATION		-11,000

300

OPERATION AND MAINTENANCE, AIR FORCE

The agreement provides \$42,736,365,000 for Operation and Maintenance, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ Insert 31A-E

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, AIR FORCE		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10	PRIMARY COMBAT FORCES.....	729,127 727,477
20	COMBAT ENHANCEMENT FORCES.....	1,318,770 1,318,770
30	AIR OPERATIONS TRAINING.....	1,486,790 1,421,970
40	DEPOT MAINTENANCE.....	--- 2,546,792
50	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	3,675,824 4,037,824
50	CYBERSPACE SUSTAINMENT.....	--- 221,011
60	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	--- 7,510,364
70	FLYING HOUR PROGRAM.....	--- 3,898,773
80	BASE OPERATING SUPPORT.....	--- 7,196,098
COMBAT RELATED OPERATIONS		
90	GLOBAL C3I AND EARLY WARNING.....	964,553 1,004,553
100	OTHER COMBAT OPERATIONS SUPPORT PROGRAMS.....	1,032,307 1,027,307
110	CYBERSPACE ACTIVITIES.....	670,076 667,076
SPACE OPERATIONS		
130	LAUNCH FACILITIES.....	179,980 179,980
140	SPACE CONTROL SYSTEMS.....	467,990 464,390
COCOM		
170	US NORTHCOM/NORAD.....	184,655 184,655
180	US STRATCOM.....	478,357 478,357
190	US CYBERCOM.....	323,121 323,121
200	US CENTCOM.....	160,989 160,989
210	US SOCOM.....	6,225 6,225
220	US TRANSCOM.....	544 544
220	CENTCOM CYBERSPACE SUSTAINMENT.....	2,073 2,073
230	USSPACECOM.....	70,588 70,588
OPERATING FORCES CLASSIFIED PROGRAMS.....		
	1,322,944	1,311,204
TOTAL, BUDGET ACTIVITY 1.....		
	13,074,913	34,760,141

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

BUDGET ACTIVITY 2: MOBILIZATION		
MOBILITY OPERATIONS		
230	AIRLIFT OPERATIONS.....	1,158,142 1,151,342
240	MOBILIZATION PREPAREDNESS.....	138,672 134,422
	TOTAL, BUDGET ACTIVITY 2.....	1,296,814 1,285,764

BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
ACCESSION TRAINING		
280	OFFICER ACQUISITION.....	130,835 130,835
290	RECRUIT TRAINING.....	26,021 26,021
300	RESERVE OFFICER TRAINING CORPS (ROTC).....	121,391 121,391
BASIC SKILLS AND ADVANCED TRAINING		
330	SPECIALIZED SKILL TRAINING.....	454,539 444,539
340	FLIGHT TRAINING.....	600,565 608,565
350	PROFESSIONAL DEVELOPMENT EDUCATION.....	282,788 282,788
360	TRAINING SUPPORT.....	123,988 113,988
RECRUITING, AND OTHER TRAINING AND EDUCATION		
380	RECRUITING AND ADVERTISING.....	167,731 162,731
390	EXAMINING.....	4,576 4,576
400	OFF DUTY AND VOLUNTARY EDUCATION.....	211,911 211,911
410	CIVILIAN EDUCATION AND TRAINING.....	219,021 214,021
420	JUNIOR ROTC.....	62,092 65,092
	TOTAL, BUDGET ACTIVITY 3.....	2,405,458 2,386,458

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

14950 BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
15000 LOGISTICS OPERATIONS		
15050 LOGISTICS OPERATIONS.....	664,926	664,926
15100 TECHNICAL SUPPORT ACTIVITIES.....	101,483	101,483
15350 SERVICEWIDE ACTIVITIES		
15400 ADMINISTRATION.....	892,480	892,480
15450 SERVICEWIDE COMMUNICATIONS.....	152,532	132,532
15600 OTHER SERVICEWIDE ACTIVITIES.....	1,254,089	1,229,089
15700 CIVIL AIR PATROL CORPORATION.....	30,070	39,100
15950 SUPPORT TO OTHER NATIONS		
16000 INTERNATIONAL SUPPORT.....	136,110	136,110
16010 SECURITY PROGRAMS		
16020 SECURITY PROGRAMS.....	1,269,624	1,245,782
16050 TOTAL, BUDGET ACTIVITY 4.....	4,501,314	4,441,502
17225 TRAINING FOR GAPS IN EMERGING TECHNOLOGIES.....	---	3,000
17245 HISTORICAL UNOBLIGATION.....	---	-60,000
17260 ISR INNOVATION OFFICE.....	---	8,500
17265 UNJUSTIFIED GROWTH	---	-90,000
17270 P.L. 115-68 IMPLEMENTATION AT COCOMS.....	---	1,000
17350 TOTAL, OPERATION AND MAINTENANCE, AIR FORCE.....	21,278,499	42,736,365
	=====	=====

31C

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

O-1	Budget Request	Final Bill
11A PRIMARY COMBAT FORCES	729,127	727,477
Excess travel costs		-1,650
11D AIR OPERATIONS TRAINING	1,486,790	1,421,970
Unjustified growth		-60,000
SCARS - Air Force requested transfer to OP,AF line 27		-4,820
11M DEPOT MAINTENANCE	0	2,546,792
Transfer from title IX		2,584,792
Remove one-time fiscal year 2019 increase		-38,000
11R REAL PROPERTY MAINTENANCE	3,675,824	4,037,824
Transfer from title IX		466,611
Air Force requested transfer to line 11Z for non-FSRM disaster requirements		-104,611
11V CYBERSPACE SUSTAINMENT	0	221,011
Transfer from title IX		228,811
Insufficient justification		-7,800
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	0	7,510,364
Transfer from tile IX		7,579,364
Unjustified growth		-69,000
11Y FLYING HOUR PROGRAM	0	3,898,773
Transfer from title IX		4,048,773
Unjustified growth		-150,000
11Z BASE OPERATING SUPPORT	0	7,196,098
Transfer from title IX		7,223,982
Insufficient justification		-150,000
Air Force requested transfer to OM,ANG for environmental compliance		-4,495
Program increase - civil engineers equipment		2,000
Air Force requested transfer from line 11R for non-FSRM disaster requirements		104,611
Program increase - childcare		20,000
12A GLOBAL C3I AND EARLY WARNING	964,553	1,004,553
Air Force requested transfer from RDTE,AF line 234		40,000
12C OTHER COMBAT OPERATIONS SUPPORT PROGRAMS	1,032,307	1,027,307
Insufficient justification		-5,000
12D CYBERSPACE ACTIVITIES	670,076	667,076
Insufficient justification		-3,000
13C SPACE CONTROL SYSTEMS	467,990	464,390
Insufficiant justification		-3,600

310

O-1	Budget Request	Final Bill
999 CLASSIFIED PROGRAMS	1,322,944	1,311,204
Insufficient justification - ISR modernization, automation, and development		-5,490
Classified adjustment		-6,250
21A AIRLIFT OPERATIONS	1,158,142	1,151,342
Unjustified growth		-6,800
21D MOBILIZATION PREPAREDNESS	138,672	134,422
Unjustified growth		-4,250
32A SPECIALIZED SKILL TRAINING	454,539	444,539
Unjustified growth		-10,000
32B FLIGHT TRAINING	600,565	608,565
Program increase - undergraduate pilot training		8,000
32D TRAINING SUPPORT	123,988	113,988
Program decrease - remove one-time fiscal year 2019 increase		-10,000
33A RECRUITING AND ADVERTISING	167,731	162,731
Unjustified growth		-5,000
33D CIVILIAN EDUCATION AND TRAINING	219,021	214,021
Program decrease - remove one-time fiscal year 2019 increase		-5,000
33E JUNIOR ROTC	62,092	65,092
Program increase - Pilot scholarship program		3,000
42B SERVICEWIDE COMMUNICATIONS	152,532	132,532
Unjustified growth		-20,000
42G OTHER SERVICEWIDE ACTIVITIES	1,254,089	1,229,089
Program decrease - remove one-time fiscal year 2019 increase		-25,000
42I CIVIL AIR PATROL CORPORATION	30,070	39,100
Program increase		7,163
Program increase - Civil Air Patrol - communication equipment		1,867
SECURITY PROGRAMS		
44A SECURITY PROGRAMS	1,269,624	1,245,782
Classified adjustment		-23,842
TRAINING GAPS IN EMERGING TECHNOLOGIES		3,000
HISTORICAL UNOBLIGATION		-60,000
ISR INNOVATION OFFICE		8,500
UNJUSTIFIED GROWTH		-90,000
PROGRAM INCREASE - PUBLIC LAW 115-68 IMPLEMENTATION AT COMBATANT COMMANDS		1,000

31E

RC-26B

It is understood that the National Defense Authorization Act for Fiscal Year 2020 addresses the RC-26B aircraft matter.

OPERATION AND MAINTENANCE, SPACE FORCE

The agreement provides \$40,000,000 for Operation and Maintenance, Space Force, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

insert 33A-B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, SPACE FORCE		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
270 BASE SUPPORT.....	72,436	40,000
TOTAL, BUDGET ACTIVITY 1.....	72,436	40,000
TOTAL, OPERATION AND MAINTENANCE, SPACE FORCE.....	72,436	40,000
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
11Z BASE SUPPORT Insufficient justification	72,436	40,000 -32,436

338

OPERATION AND MAINTENANCE, SPACE FORCE SPEND PLAN

The Secretary of the Air Force is directed to provide a spend plan by month for fiscal year 2020 Operation and Maintenance, Space Force funding to the congressional defense committees not later than 30 days after the enactment of this Act. The spend plan shall include, but not be limited to, funding for civilian personnel (including the number of full-time equivalents), supplies and materials, and contract support. If there is a change to the spend plan in any given quarter, the Secretary of the Air Force shall provide written notification to the congressional defense committees not later than 10 business days following the end of that quarter explaining any adjustments.

OPERATION AND MAINTENANCE, DEFENSE-WIDE

The agreement provides \$37,491,073,000 for Operation and Maintenance, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 35A-F

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, DEFENSE-WIDE		
BUDGET ACTIVITY 1: OPERATING FORCES		
10	JOINT CHIEFS OF STAFF.....	409,542 392,542
20	JOINT CHIEFS OF STAFF.....	579,179 579,179
30	JOINT CHIEFS OF STAFF - CYBER.....	24,598 24,598
SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES.....		
40		1,075,762 1,064,262
50	SPECIAL OPERATIONS COMMAND CYBERSPACE ACTIVITIES.....	14,409 14,409
60	SPECIAL OPERATIONS COMMAND INTELLIGENCE.....	501,747 499,158
70	SPECIAL OPERATIONS COMMAND MAINTENANCE.....	559,300 545,322
SPECIAL OPERATIONS COMMAND MANAGEMENT/OPERATIONAL HEADQUARTERS.....		
80		177,928 177,928
90	SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT.....	925,262 921,094
100	SPECIAL OPERATIONS COMMAND THEATER FORCES.....	2,764,738 2,716,421

	TOTAL, BUDGET ACTIVITY 1.....	7,032,465 6,934,913
BUDGET ACTIVITY 3: TRAINING AND RECRUITING		
50	DEFENSE ACQUISITION UNIVERSITY.....	180,250 180,250
JOINT CHIEFS OF STAFF RECRUITING, AND OTHER TRAINING AND EDUCATION.....		
60		100,610 100,610
70	SPECIAL OPERATIONS COMMAND.....	33,967 33,967

	TOTAL, BUDGET ACTIVITY 3.....	314,827 314,827
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
80	CIVIL MILITARY PROGRAMS.....	165,707 265,063
100	DEFENSE CONTRACT AUDIT AGENCY.....	627,467 627,142
190	DEFENSE CONTRACT AUDIT AGENCY - CYBER.....	3,362 3,362
110	DEFENSE CONTRACT MANAGEMENT AGENCY.....	1,438,068 1,418,068
210	DEFENSE CONTRACT MANAGEMENT AGENCY - CYBER.....	24,391 24,391
120	DEFENSE HUMAN RESOURCES ACTIVITY.....	892,438 954,938
130	DEFENSE INFORMATION SYSTEMS AGENCY.....	2,012,885 1,974,163
240	DEFENSE INFORMATION SYSTEMS AGENCY - CYBER.....	601,223 636,360
150	DEFENSE LEGAL SERVICES AGENCY.....	34,632 33,152
160	DEFENSE LOGISTICS AGENCY.....	415,699 430,199
170	DEFENSE MEDIA ACTIVITY.....	202,792 202,792
180	DEFENSE POW /MISSING PERSONS OFFICE.....	144,881 168,881

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
19410 DEFENSE SECURITY COOPERATION AGENCY.....	696,884	643,073
19420 DEFENSE SECURITY SERVICE.....	889,664	892,164
19430 DEFENSE SECURITY SERVICE - CYBER.....	9,220	12,220
19440 DEFENSE TECHNICAL INFORMATION CENTER.....	3,000	2,000
19450 DEFENSE TECHNOLOGY SECURITY AGENCY.....	35,626	34,931
19500 DEFENSE THREAT REDUCTION AGENCY.....	568,133	568,133
19510 DEFENSE THREAT REDUCTION AGENCY - CYBER.....	13,339	13,339
19600 DEPARTMENT OF DEFENSE EDUCATION ACTIVITY.....	2,932,226	2,947,226
20050 OFFICE OF ECONOMIC ADJUSTMENT.....	59,513	134,913
20100 OFFICE OF THE SECRETARY OF DEFENSE.....	1,604,738	1,628,488
20105 MISSILE DEFENSE AGENCY.....	522,529	543,859
20110 OFFICE OF THE SECRETARY OF DEFENSE - CYBER.....	48,783	48,783
20120 SPACE DEVELOPMENT AGENCY.....	44,750	30,560
20250 WASHINGTON HEADQUARTERS SERVICES.....	324,001	314,001
20260 OTHER PROGRAMS.....	15,736,098	15,764,582
20350 TOTAL, BUDGET ACTIVITY 4.....	30,052,049	30,316,783
20590 SEXUAL TRAUMA TREATMENT PILOT PROGRAM.....	---	3,000
20640 ATOMIC VETERANS SERVICE MEDAL	---	250
20734 GENDER ADVISORS BUILDING PARTNERSHIP CAPACITY WOMEN'S PROGRAMS.....	---	3,000
20805 SERVICE DOGS.....	---	200
20807 SPACE AVAILABLE FLIGHTS.....	---	1,000
20809 BROADBAND ACCESS.....	---	5,000
20811 NATIONAL SECURITY/CLIMATE CHANGE.....	---	500
20825 UNJUSTIFIED GROWTH.....	---	-80,000
20830 BUDGET JUSTIFICATION INCONSISTENCIES.....	---	-25,000
20840 VIETNAM DIOXIN REMEDIATION.....	---	15,000
20850 P.L. 115-68 IMPLEMENTATION.....	---	1,600
21560 TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE.....	37,399,341	37,491,073

35B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1PL1 JOINT CHIEFS OF STAFF	409,542	392,542
Program increase unaccounted for		-12,000
Remove one-time fiscal year 2019 costs		-5,000
1PL6 SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT ACTIVITIES	1,075,762	1,064,262
Classified adjustment		-6,000
Classified adjustment		-5,500
1PLU SPECIAL OPERATIONS COMMAND INTELLIGENCE	501,747	499,158
Classified adjustment		-1,467
Program increase - document and media exploitation		5,000
Repricing civilian personnel realignments		-2,181
Remove one-time fiscal year 2019 increase		-1,504
Unjustified growth		-2,537
Overestimation of contractor FTE		-2,200
Program increase - Identity Management		2,300
1PL7 SPECIAL OPERATIONS COMMAND MAINTENANCE	559,300	545,322
Unjustified growth		-2,523
Unjustified program baseline		-11,455
1PLV SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT	925,262	921,094
Base support - underexecution		-5,900
Base support pricing adjustment		-675
One-time base support decreases not properly accounted for		-7,715
Underexecution		-6,200
Unjustified growth		-1,678
Program increase - Identity Management		18,000
1PLR SPECIAL OPERATIONS COMMAND THEATER FORCES	2,764,738	2,716,421
SOCOM Requested Transfer to DHP		-5,000
Excess to need - TSOC EA&A		-3,000
Excess to need - USAJFKSWCS ASOT		-4,000
Remove one-time fiscal year 2019 increase		-13,440
Unjustified CLS growth		-1,096
Repricing civilian personnel realignments		-881
Overestimation of flying hours		-20,900
4GT3 CIVIL MILITARY PROGRAMS	165,707	265,063
Program increase - National Guard Youth Challenge		50,000
Program increase - Starbase		35,000
Program increase - Innovative Readiness Training Program		14,356
4GT6 DEFENSE CONTRACT AUDIT AGENCY	627,467	627,142
Excess FTEs		-300
Unjustified growth		-25
4GTO DEFENSE CONTRACT MANAGEMENT AGENCY	1,438,068	1,418,068
Program increases unaccounted for		-20,000

350

O-1	Budget Request	Final Bill
4GT8 DEFENSE HUMAN RESOURCES ACTIVITY	892,438	954,938
Program increase- Spectial Victims' Counsel		35,000
Unjustified growth		-10,000
Program increase - Beyond the Yellow Ribbon		20,000
Program increase - Defense Language Training Centers		15,000
Demonstration project for contractors employing persons with disabilities		2,500
4GT9 DEFENSE INFORMATION SYSTEMS AGENCY	2,012,885	1,974,163
Unjustified growth		-38,722
4GU9 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER	601,223	636,360
Transfer from OM,DW line 999		35,137
4GTA DEFENSE LEGAL SERVICES AGENCY	34,632	33,152
Excess growth		-1,480
4GTB DEFENSE LOGISTICS AGENCY	415,699	430,199
Excess growth		-5,000
Program increase - Procurement Technical Assistance Program		19,500
4GTC DEFENSE POW /MISSING PERSONS OFFICE	144,881	168,881
Program increase - Korean conflict		10,000
Program increase - Missing in Action accounting program		9,000
Program increase - Identifying remains from WWII in EUCOM		5,000
4GTD DEFENSE SECURITY COOPERATION AGENCY	696,884	643,073
Program increase - regional centers		3,747
Program adjustment - DSCA headquarters		-3,000
Program adjustment - Defense Institution Reform Initiative		-2,000
Program adjustment - Security Cooperation Account		-14,888
Program adjustment - Security Cooperation Account enterprise support costs		-27,560
Program adjustment - Southeast Asia Maritime Security Initiative		-10,110
Transfer from Southeast Asia Maritime Security Initiative to Security Cooperation Account		-90,000
Transfer to Security Cooperation Account from Southeast Asia Maritime Security Initiative		90,000
4GTE DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY	889,664	892,164
Program increase - access to criminal records for local law enforcement		2,500
4GTG DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY - CYBER	9,220	12,220
Program increase - defensive cyber and counterintelligence operations		3,000
4GTK DEFENSE TECHNICAL INFORMATION CENTER	3,000	2,000
Insufficient justification		-1,000
4GTH DEFENSE TECHNOLOGY SECURITY AGENCY	35,626	34,931
Insufficient justification		-695

35D

O-1	Budget Request	Final Bill
4GTJ DEPARTMENT OF DEFENSE EDUCATION ACTIVITY	2,932,226	2,947,226
Remove one-time fiscal year 2019 increase		-60,000
Program increase - Impact Aid		50,000
Program increase - Impact Aid for children with disabilities		20,000
Program increase - family advocacy program		5,000
011A MISSILE DEFENSE AGENCY	522,529	543,859
THAAD prior year underexecution		-12,670
Program increase - electronic equipment unit modernization		16,000
Program increase - cooling equipment unit refurbishment		15,000
Program increase - cooling equipment unit refurbishment kits		3,000
4GTM OFFICE OF ECONOMIC ADJUSTMENT	59,513	134,913
Program increase - civilian growth		400
Program increase - Defense Community Infrastructure Program		50,000
Program increase - Defense Manufacturing Communities		25,000
4GTN OFFICE OF THE SECRETARY OF DEFENSE	1,604,738	1,628,488
Excess growth		-50,000
Program increase - Information Assurance Scholarship Program		10,000
Program increase - Readiness Environmental Protection Initiative		25,000
Program increase - cyber scholarships and institutes		10,000
Program increase - CDC water contamination study and assessment		10,000
Program increase - WWII Commemorative program		5,000
Program increase - Interstate compacts for licensure and credentialing		2,750
Program increase - National Commission on Military Aviation Safety		3,000
Program increase - cyber institutes		5,000
Program increase - resilience planning		3,000
ES14 SPACE DEVELOPMENT AGENCY	44,750	30,560
Insufficient justification		-14,190
4GTQ WASHINGTON HEADQUARTERS SERVICES	324,001	314,001
Insufficient justification		-10,000
999 OTHER PROGRAMS	15,736,098	15,764,582
Classified adjustment		63,621
Transfer to OM,DW line 4GU9		-35,137
SEXUAL TRAUMA TREATMENT PILOT PROGRAM		3,000
ATOMIC VETERANS SERVICE MEDAL		250
GENDER ADVISORS - BUILDING PARTNERSHIP CAPACITY WOMEN'S PROGRAMS		3,000
MILITARY SERVICE DOGS		200
SPACE AVAILABLE FLIGHTS		1,000
BROADBAND ACCESS		5,000
NATIONAL SECURITY/CLIMATE CHANGE		500

O-1

Budget Request

Final Bill

UNJUSTIFIED GROWTH	-80,000
BUDGET JUSTIFICATION INCONSISTENCIES	-25,000
VIETNAM DIOXIN REMEDIATION	15,000
PROGRAM INCREASE - PUBLIC LAW 115-68 IMPLEMENTATION	1,600

35F

DEFENSE LANGUAGE AND NATIONAL SECURITY EDUCATION OFFICE

The Defense Language and National Security Education Office provides critical college accredited training for service members and government officials in a number of languages and strategic cultures in partnership with universities across the country. A report provided by the Department of Defense in response to language included in the report accompanying the Department of Defense Appropriations Act, 2019 (Public Law 115-245) regarding the Department's ability to fill positions requiring high level strategic language capability reflects the clear and demonstrable need for increased resources. The Secretary of Defense is encouraged to place a higher priority on the Language Training Centers and the Language Flagship strategic language training program. The agreement designates the funding included in the fiscal year 2020 budget request for the Language Training Centers as a congressional special interest item.

It is further noted that funding for the Language Flagship program has not been increased since its inception in 2003 and the Secretary of Defense is urged to provide additional resources to the Language Flagship program that ensure both military and civilian personnel receive the language and culture training needed to effectively complete missions. Additionally, the Secretary of Defense is directed to identify additional resources that may be required to address existing shortfalls in this skillset.

SECURITY ASSISTANCE PROGRAMS

Prior to the initial obligation of funds made available in Title II and Title IX of this Act for the Defense Security Cooperation Agency (DSCA), the Director of DSCA is directed to submit a spend plan by budget activity and sub-activity to the House and Senate Appropriations Committees. For funds planned for the Security Cooperation

Account, the Director shall, in coordination with the geographic combatant commanders, include amounts planned for each combatant command and country, and a comparison to such amounts provided in the previous three fiscal years. Amounts in the plan shall only reflect those amounts designated in the fiscal year 2020 budget justification materials and modified by fiscal year 2020 appropriations adjustments in this Act and in the table under this heading for DSCA. The plan shall be updated and submitted to the House and Senate Appropriations Committees upon notification of funds under this heading to include a justification for changes made. A similar plan shall be provided to such Committees outlining funds requested for fiscal year 2021 with the submission of the fiscal year 2021 budget request.

INDO-PACIFIC STRATEGIC FRAMEWORK AND PLAN

The Secretary of Defense is directed to submit a copy of the Indo-Pacific Strategic Framework and the Indo-Pacific Implementation Plan to the congressional defense committees not later than 30 days after the enactment of this Act.

OPERATION AND MAINTENANCE, ARMY RESERVE

The agreement provides \$2,984,494,000 for Operation and Maintenance, Army Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 38A-B

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL
21700 OPERATION AND MAINTENANCE, ARMY RESERVE		
21750 BUDGET ACTIVITY 1: OPERATING FORCES		
21800 LAND FORCES		
21900 MODULAR SUPPORT BRIGADES.....	---	11,927
21950 ECHELONS ABOVE BRIGADES.....	---	533,015
22000 THEATER LEVEL ASSETS.....	---	118,101
22050 LAND FORCES OPERATIONS SUPPORT.....	---	543,468
22100 AVIATION ASSETS.....	---	85,170
22150 LAND FORCES READINESS		
22200 FORCES READINESS OPERATIONS SUPPORT.....	390,061	388,661
22250 LAND FORCES SYSTEM READINESS.....	101,890	101,890
22300 DEPOT MAINTENANCE.....	---	48,503
22350 LAND FORCES READINESS SUPPORT		
22400 BASE OPERATIONS SUPPORT.....	---	592,407
22450 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	444,376	435,576
22460 MANAGEMENT AND OPERATIONS HEADQUARTERS.....	22,095	22,095
22470 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	3,288	3,288
22480 CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,655	7,655
22600 TOTAL, BUDGET ACTIVITY 1.....	969,365	2,891,756
22650 BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
22700 ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
22740 SERVICEWIDE TRANSPORTATION.....	14,533	14,533
22750 ADMINISTRATION.....	17,231	17,231
22800 SERVICEWIDE COMMUNICATIONS.....	14,304	14,304
22850 PERSONNEL/FINANCIAL ADMINISTRATION	6,129	6,129
22900 RECRUITING AND ADVERTISING.....	58,541	58,541
22950 TOTAL, BUDGET ACTIVITY 4.....	110,738	110,738
22980 HISTORICAL UNOBLIGATION.....	---	-10,000
23000 COORDINATION BETWEEN ACTIVE AND RESERVE UNITS.....	---	2,000
23010 OVERESTIMATION OF CIVILIAN FTE TARGETS.....	---	-10,000
23500 TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE.....	1,080,103	2,984,494

38A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

O-1	Budget Request	Final Bill
112 MODULAR SUPPORT BRIGADES	0	11,927
Transfer from title IX		11,927
113 ECHELONS ABOVE BRIGADES	0	533,015
Transfer from title IX		533,015
114 THEATER LEVEL ASSETS	0	118,101
Transfer from title IX		119,517
Insufficient justification		-1,416
115 LAND FORCES OPERATIONS SUPPORT	0	543,468
Transfer from title IX		550,468
Unjustified growth		-7,000
116 AVIATION ASSETS	0	85,170
Transfer from title IX		86,670
Unjustified growth		-1,500
121 FORCES READINESS OPERATIONS SUPPORT	390,061	388,661
Excess civilian increase		-400
Excess travel increase		-1,000
123 DEPOT MAINTENANCE	0	48,503
Transfer from title IX		48,503
131 BASE OPERATIONS SUPPORT	0	592,407
Transfer from title IX		598,907
Program decrease unaccounted for		-6,500
132 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	444,376	435,576
Insufficient justification		-8,800
COORDINATION BETWEEN ACTIVE AND RESERVE COMPONENTS		2,000
OVERESTIMATION OF CIVILIAN FTE TARGETS		-10,000
HISTORICAL UNOBLIGATION		-10,000

(38B)

OPERATION AND MAINTENANCE, NAVY RESERVE

The agreement provides \$1,102,616,000 for Operation and Maintenance, Navy Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 391A-B

(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, NAVY RESERVE			
BUDGET ACTIVITY 1: OPERATING FORCES			
	RESERVE AIR OPERATIONS		
10	MISSION AND OTHER FLIGHT OPERATIONS.....	---	631,720
20	INTERMEDIATE MAINTENANCE.....	8,767	8,767
30	AIRCRAFT DEPOT MAINTENANCE.....	---	108,236
40	AIRCRAFT DEPOT OPERATIONS SUPPORT.....	463	463
50	AVIATION LOGISTICS.....	26,014	26,014
	RESERVE SHIP OPERATIONS		
60	SHIP OPERATIONAL SUPPORT AND TRAINING.....	583	583
	RESERVE COMBAT OPERATIONS SUPPORT		
70	COMBAT COMMUNICATIONS.....	17,883	17,883
80	COMBAT SUPPORT FORCES.....	128,079	128,079
90	CYBERSPACE ACTIVITIES.....	356	356
	RESERVE WEAPONS SUPPORT		
100	ENTERPRISE INFORMATION TECHNOLOGY.....	26,133	26,133
	BASE OPERATING SUPPORT		
110	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	35,397	35,397
120	BASE OPERATING SUPPORT.....	---	101,376
	TOTAL, BUDGET ACTIVITY 1.....	----- 243,675	----- 1,085,007
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES			
	ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
130	ADMINISTRATION.....	1,888	1,888
140	MILITARY MANPOWER & PERSONNEL.....	12,778	12,778
160	ACQUISITION AND PROGRAM MANAGEMENT.....	2,943	2,943
	TOTAL, BUDGET ACTIVITY 4.....	----- 17,609	----- 17,609
	TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE.....	=====	=====
		261,284	1,102,616
		=====	=====

39A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A MISSION AND OTHER FLIGHT OPERATIONS	0	631,720
Transfer from title IX		654,220
Projected underexecution		-22,500
1A5A AIRCRAFT DEPOT MAINTENANCE	0	108,236
Transfer from title IX		108,236
BSSR BASE OPERATING SUPPORT	0	101,376
Transfer from title IX		101,376

(398)

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE

The agreement provides \$289,076,000 for Operation and Maintenance, Marine Corps Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 40A-B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, MARINE CORPS RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
EXPEDITIONARY FORCES		
10	OPERATING FORCES.....	106,484
20	DEPOT MAINTENANCE.....	15,929
30	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	47,516
40	BASE OPERATING SUPPORT.....	106,073
	-----	-----
	TOTAL, BUDGET ACTIVITY 1.....	276,002
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
60	ADMINISTRATION.....	13,074
	-----	-----
	TOTAL, BUDGET ACTIVITY 4.....	13,074
	=====	=====
	TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE	289,076
	=====	=====

410A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
1A1A OPERATING FORCES	0	106,484
Transfer from title IX		106,484
1A3A DEPOT MAINTENANCE	0	15,929
Transfer from title IX		18,429
Excess growth		-2,500
BSS1 BASE OPERATING SUPPORT	0	106,073
Transfer from title IX		106,073
4A4G ADMINISTRATION	13,574	13,074
Excess civilian growth		-500

(40B)

OPERATION AND MAINTENANCE, AIR FORCE RESERVE

The agreement provides \$3,227,318,000 for Operation and Maintenance, Air Force Reserve, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 41A-B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

OPERATION AND MAINTENANCE, AIR FORCE RESERVE		
BUDGET ACTIVITY 1: OPERATING FORCES		
	AIR OPERATIONS	
10	PRIMARY COMBAT FORCES.....	1,781,413 1,736,413
20	MISSION SUPPORT OPERATIONS.....	209,650 204,150
30	DEPOT MAINTENANCE.....	--- 484,235
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	128,746 128,746
70	CYBERSPACE ACTIVITIES.....	1,673 1,673
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	--- 251,512
60	BASE OPERATING SUPPORT.....	--- 380,626
	TOTAL, BUDGET ACTIVITY 1.....	2,121,482 3,187,355

BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
70	ADMINISTRATION.....	69,436 69,436
80	RECRUITING AND ADVERTISING.....	22,124 22,124
90	MILITARY MANPOWER AND PERSONNEL MANAGEMENT.....	10,946 10,946
100	OTHER PERSONNEL SUPPORT.....	7,009 7,009
110	AUDIOVISUAL.....	448 448
	TOTAL, BUDGET ACTIVITY 4.....	109,963 109,963
	HISTORICAL UNOBLIGATION.....	--- -10,000
	OVERESTIMATION OF CIVILIAN FTE TARGETS.....	--- -60,000
	TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE.	2,231,445 3,227,318
	=====	=====

41A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

O-1	Budget Request	Final Bill
11A PRIMARY COMBAT FORCES	1,781,413	1,736,413
Projected underexecution		-45,000
11G MISSION SUPPORT OPERATIONS	209,650	204,150
Insufficient justification		-5,500
11M DEPOT MAINTENANCE	0	484,235
Transfer from title IX		494,235
Excess growth		-10,000
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	0	251,512
Transfer from title IX		256,512
Excess growth		-5,000
11Z BASE OPERATING SUPPORT	0	380,626
Transfer from title IX		414,626
Removal of one-time fiscal year 2019 increase		-34,000
OVERESTIMATION OF CIVILIAN FTE TARGETS		-60,000
HISTORICAL UNOBLIGATION		-10,000

(418)

OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD

The agreement provides \$7,461,947,000 for Operation and Maintenance, Army National Guard, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 42A-D

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

30000 OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD		
30050 BUDGET ACTIVITY 1: OPERATING FORCES		
30100 LAND FORCES		
30150 MANEUVER UNITS.....	---	775,671
30200 MODULAR SUPPORT BRIGADES.....	---	193,334
30250 ECHELONS ABOVE BRIGADE.....	---	770,548
30300 THEATER LEVEL ASSETS.....	---	91,826
30350 LAND FORCES OPERATIONS SUPPORT.....	---	34,696
30400 AVIATION ASSETS.....	---	973,819
30450 LAND FORCES READINESS		
30500 FORCE READINESS OPERATIONS SUPPORT.....	743,206	745,106
30550 LAND FORCES SYSTEMS READINESS.....	50,963	50,963
30600 LAND FORCES DEPOT MAINTENANCE.....	---	249,778
30650 LAND FORCES READINESS SUPPORT		
30700 BASE OPERATIONS SUPPORT.....	---	1,140,576
30750 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	1,113,475	1,063,475
30800 MANAGEMENT AND OPERATIONAL HEADQUARTERS.....	1,001,042	986,042
30810 CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS.....	8,448	8,448
30820 CYBERSPACE ACTIVITIES - CYBERSECURITY.....	7,768	7,768

31000 TOTAL, BUDGET ACTIVITY 1.....	2,924,902	7,092,050
31050 BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
31100 ADMINISTRATION AND SERVICEWIDE ACTIVITIES		
31110 SERVICEWIDE TRANSPORTATION.....	9,890	9,890
31150 ADMINISTRATION.....	71,070	72,114
31200 SERVICEWIDE COMMUNICATIONS.....	68,213	62,213
31250 MANPOWER MANAGEMENT.....	8,628	8,628
31300 RECRUITING AND ADVERTISING.....	250,376	250,376
31310 REAL ESTATE MANAGEMENT.....	2,676	2,676

31350 TOTAL, BUDGET ACTIVITY 4.....	410,853	405,897

42A

(In thousands of dollars)

	BUDGET REQUEST	FINAL BILL

31550 HISTORICAL UNOBLIGATION.....	---	-28,000
31600 COORDINATION BETWEEN ACTIVE AND RESERVE UNITS.....	---	2,000
31610 OVERESTIMATION OF CIVILIAN FTE TARGETS.....	---	-10,000
	=====	=====
32000 TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD.	3,335,755	7,461,947
	=====	=====

42B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

O-1	Budget Request	Final Bill
111 MANEUVER UNITS	0	775,671
Transfer from title IX		805,671
Program decrease unaccounted for		-30,000
112 MODULAR SUPPORT BRIGADES	0	193,334
Transfer from title IX		195,334
Excess growth		-2,000
113 ECHELONS ABOVE BRIGADE	0	770,548
Transfer from title IX		771,048
Excess growth		-500
114 THEATER LEVEL ASSETS	0	91,826
Transfer from title IX		94,726
Excess growth		-2,900
115 LAND FORCES OPERATIONS SUPPORT	0	34,696
Transfer from title IX		33,696
Program increase - corrosion control		1,000
116 AVIATION ASSETS	0	973,819
Transfer from title IX		981,819
Excess growth		-8,000
121 FORCE READINESS OPERATIONS SUPPORT	743,206	745,106
Program increase - Advanced trauma training program		900
Program increase - wildfire training		1,000
123 LAND FORCES DEPOT MAINTENANCE	0	249,778
Transfer from title IX		258,278
Insufficient justification		-8,500
131 BASE OPERATIONS SUPPORT	0	1,140,576
Transfer from title IX		1,153,076
Insufficient justification		-25,000
Program increase - PFAS remediation		9,500
Program increase - preventative mental health		3,000
132 FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	1,113,475	1,063,475
Insufficient justification		-50,000
132 MANAGEMENT AND OPERATIONAL HEADQUARTERS	1,001,042	986,042
Program decrease unaccounted for		-15,000
431 ADMINISTRATION	71,070	72,114
Program Increase - State Partnership Program		1,044
432 SERVICEWIDE COMMUNICATIONS	68,213	62,213
Program decrease unaccounted for		-6,000
HISTORICAL UNOBLIGATION		-28,000

(420)

O-1

Budget Request

Final Bill

COORDINATION BETWEEN ACTIVE AND RESERVE
COMPONENTS

2,000

OVERESTIMATION OF CIVILIAN FTE TARGETS

-10,000

42D

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

The agreement provides \$6,655,292,000 for Operation and Maintenance, Air National Guard, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ insert 43A-B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
OPERATION AND MAINTENANCE, AIR NATIONAL GUARD		
BUDGET ACTIVITY 1: OPERATING FORCES		
AIR OPERATIONS		
10	AIRCRAFT OPERATIONS.....	2,497,967 2,469,667
20	MISSION SUPPORT OPERATIONS.....	600,377 611,177
30	DEPOT MAINTENANCE.....	--- 867,467
40	FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION ..	400,734 398,802
80	CYBERSPACE ACTIVITIES.....	25,507 25,507
80	CYBERSPACE SUSTAINMENT.....	--- 24,742
50	CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT.....	--- 1,285,089
60	BASE OPERATING SUPPORT.....	--- 935,270
	TOTAL, BUDGET ACTIVITY 1.....	3,524,585 6,617,721
BUDGET ACTIVITY 4: ADMIN & SERVICEWIDE ACTIVITIES		
SERVICEWIDE ACTIVITIES		
70	ADMINISTRATION.....	47,215 47,215
80	RECRUITING AND ADVERTISING.....	40,356 40,356
	TOTAL, BUDGET ACTIVITY 4.....	87,571 87,571
	HISTORICAL UNOBLIGATION.....	--- -20,000
	OVERESTIMATION OF CIVILIAN FTE TARGETS.....	--- -30,000
	TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD..	3,612,156 6,655,292

43A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS

[In thousands of dollars]

O-1	Budget Request	Final Bill
11F AIRCRAFT OPERATIONS	2,497,967	2,469,667
Insufficient justification		-28,300
11G MISSION SUPPORT OPERATIONS	600,377	611,177
Program increase - State Partnership Program		360
Program increase - State Partnership virtual language project		500
Program decrease unaccounted for		-12,000
Program increase - Joint Terminal Attack Controller Training		8,000
Program increase - tuition assistance		8,640
Program increase - Advanced trauma training program		1,800
Program increase - wildfire training		500
Program increase - preventative mental health		3,000
11M DEPOT MAINTENANCE	0	867,467
Transfer from title IX		879,467
Excess growth		-12,000
11R FACILITIES SUSTAINMENT, RESTORATION & MODERNIZATION	400,734	398,802
Insufficient justification		-5,600
Program increase		2,500
Program increase - range expansion		1,168
11V CYBERSPACE SUSTAINMENT	0	24,742
Transfer from title IX		24,742
11W CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT	0	1,285,089
Transfer from title IX		1,299,089
Excess growth		-14,000
11Z BASE OPERATING SUPPORT	0	935,270
Transfer from title IX		911,775
Insufficient justification		-10,000
Transfer Air Force requested transfer from O&M Air Force for environmental compliance		4,495
Program increase - PFAS remediation		29,000
HISTORICAL UNOBLIGATION		-20,000
OVERESTIMATION OF CIVILIAN FTE TARGETS		-30,000

438

UNITED STATES COURT OF APPEALS FOR THE ARMED FORCES

The agreement provides \$14,771,000 for the United States Court of Appeals for the Armed Forces.

ENVIRONMENTAL RESTORATION, ARMY

The agreement provides \$251,700,000, an increase of \$44,182,000 above the budget request, for Environmental Restoration, Army. Specifically, \$42,482,000 is provided as a general program increase and \$1,700,000 is provided to address costs associated with remediating contamination caused by perfluorinated chemicals.

ENVIRONMENTAL RESTORATION, NAVY

The agreement provides \$385,000,000, an increase of \$49,068,000 above the budget request, for Environmental Restoration, Navy.

ENVIRONMENTAL RESTORATION, AIR FORCE

The agreement provides \$485,000,000, an increase of \$182,256,000 above the budget request, for Environmental Restoration, Air Force. Specifically, \$82,256,000 is provided as a general program increase and \$100,000,000 is provided to address costs associated with remediating contamination caused by perfluorinated chemicals.

ENVIRONMENTAL RESTORATION, DEFENSE-WIDE

The agreement provides \$19,002,000, an increase of \$9,897,000 above the budget request, for Environmental Restoration, Defense-Wide.

ENVIRONMENTAL RESTORATION, FORMERLY USED DEFENSE SITES

The agreement provides \$275,000,000, an increase of \$58,501,000 above the budget request, for Environmental Restoration, Formerly Used Defense Sites.

OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID

The agreement provides \$135,000,000 for Overseas Humanitarian, Disaster, and Civic Aid, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
FOREIGN DISASTER RELIEF	21,277	35,000
Program increase		13,723
HUMANITARIAN ASSISTANCE	74,564	85,000
Program increase		10,436
HUMANITARIAN MINE ACTION PROGRAM	12,759	15,000
Program increase		2,241
TOTAL, OVERSEAS HUMANITARIAN, DISASTER, AND CIVIC AID	108,600	135,000

COOPERATIVE THREAT REDUCTION ACCOUNT

The agreement provides \$373,700,000 for the Cooperative Threat Reduction Account, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
Strategic Offensive Arms Elimination	492	492
Chemical Weapons Destruction	12,856	12,856
Global Nuclear Security	33,919	48,919
Program increase - Global Nuclear Security		15,000
Biological Threat Reduction Program	183,642	203,642
Program increase - Biological Threat Reduction program		20,000
Proliferation Prevention Program	79,869	79,869
Other Assessments/Admin Costs	27,922	27,922
<hr/>		
TOTAL, COOPERATIVE THREAT REDUCTION ACCOUNT	338,700	373,700

DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT
FUND

The agreement provides \$400,000,000 for the Department of Defense Acquisition Workforce Development Fund, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

		Budget Request	Final Bill
1	TRAINING AND DEVELOPMENT	239,200	239,200
2	RETENTION AND RECOGNITION	20,000	20,000
3	RECRUITING AND HIRING	140,800	140,800
	UNDISTRIBUTED ADJUSTMENTS		
	Planned carryover - transfer to Department of Defense Acquisition Workforce Initiatives		-52,584
	Execution delays - transfer to Department of Defense Acquisition Workforce Initiatives		-43,416
	Program increase - Department of Defense Acquisition Workforce Initiative SMART Corps for civilian acquisition specialists		26,600
	Program increase - Department of Defense Acquisition Workforce Initiative DAU transformation		48,000
	Program increase - Department of Defense Acquisition Workforce Initiative Critical acquisition workforce skills hiring initiative		21,400
TOTAL, DEPARTMENT OF DEFENSE ACQUISITION WORKFORCE DEVELOPMENT FUND		400,000	400,000

TITLE III – PROCUREMENT

The agreement provides \$133,879,995,000 in Title III, Procurement, as follows:

~~(INSERT PROCUREMENT SUMMARY TABLE)~~ insert 48A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

SUMMARY		
ARMY		
AIRCRAFT.....	3,696,429	3,771,329
MISSILES.....	---	2,995,673
WEAPONS AND TRACKED COMBAT VEHICLES.....	4,715,566	4,663,597
AMMUNITION.....	---	2,578,575
OTHER.....	7,443,101	7,581,524
TOTAL, ARMY.....	15,855,096	21,590,698
NAVY		
AIRCRAFT.....	18,522,204	19,605,513
WEAPONS.....	---	4,017,470
AMMUNITION.....	---	843,401
SHIPS.....	23,783,710	23,975,378
OTHER.....	9,652,956	10,075,257
MARINE CORPS.....	3,090,449	2,898,422
TOTAL, NAVY.....	55,049,319	61,415,441
AIR FORCE		
AIRCRAFT.....	16,784,279	17,512,361
MISSILES.....	2,889,187	2,575,890
SPACE.....	2,414,383	2,353,383
AMMUNITION.....	---	1,625,661
OTHER.....	20,687,857	21,410,021
TOTAL, AIR FORCE.....	42,775,706	45,477,316
DEFENSE-WIDE		
DEFENSE-WIDE.....	5,109,416	5,332,147
DEFENSE PRODUCTION ACT PURCHASES.....	34,393	64,393
JOINT URGENT OPERATIONAL NEEDS FUND.....	99,200	---
TOTAL PROCUREMENT.....	118,923,130	133,879,995
	=====	=====

48A

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

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

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

FUNDING INCREASES

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

PROCUREMENT SPECIAL INTEREST ITEMS

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

JOINT STRIKE FIGHTER PRIOR YEAR SAVINGS

The recent Lot 12-14 contract agreement for procurement of the F-35 Joint Strike Fighter resulted in substantial savings from prior year appropriations due to declining unit costs. The agreement preserves \$250,400,000 of this savings within the Aircraft Procurement, Navy and Aircraft Procurement, Air Force accounts for fiscal years 2018 and 2019 in order to fund the alternate sourcing of F-35 parts manufactured in the Republic of Turkey. In addition, the agreement preserves \$322,563,000 in the same accounts for reinvestments identified by the Director of the F-35 Joint Program Office to support future cost reductions and more efficient sustainment and to convert F-35As, previously designated for Turkey, for United States Air Force use.

JOINT STRIKE FIGHTER SPARES DATA

The agreement provides \$757,471,000 in additional spares for all three variants of the Joint Strike Fighter. The Secretary of Defense is directed to not obligate or expend more than 50 percent of these funds until 15 days after the Director of the F-35 Joint Program Office submits to the congressional defense committees a certification that the Department of Defense has submitted a formal request for proposal (RFP) for provisioning and cataloguing data to the F-35 prime contractor, and that the RFP has been coordinated with the prime contractor for delivery of a proposal by the end of calendar year 2020. Additionally, the Secretary of Defense is further directed to include the costs of acquiring these data, as applicable, in future budget exhibits and briefing materials for the congressional defense committees beginning with the fiscal year 2021 budget submission. This language replaces the language under the heading “Positioning the F-35 Program for Continued Success” in House Report 116-84.

AIRCRAFT PROCUREMENT, ARMY

The agreement provides \$3,771,329,000 for Aircraft Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~ insert 52A-C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, ARMY		
AIRCRAFT		
FIXED WING		
2	UTILITY F/W CARGO AIRCRAFT.....	16,000 ---
4	RQ-11 (RAVEN).....	23,510 21,420
ROTARY		
5	TACTICAL UNMANNED AIRCRAFT SYSTEM (TUAS).....	12,100 12,100
7	HELICOPTER, LIGHT UTILITY (LUH).....	--- 37,000
8	AH-64 APACHE BLOCK IIIA REMAN.....	806,849 819,230
9	AH-64 APACHE BLOCK IIIA REMAN (AP-CY).....	190,870 190,870
12	UH-60 BLACKHAWK (MYP).....	1,411,540 1,418,604
13	UH-60 BLACKHAWK (MYP) (AP-CY).....	79,572 79,572
14	UH-60 BLACKHAWK A AND L MODELS.....	169,290 169,290
15	CH-47 HELICOPTER.....	140,290 130,951
16	CH-47 HELICOPTER (AP-CY).....	18,186 46,186

	TOTAL, AIRCRAFT.....	2,868,207 2,925,223
MODIFICATION OF AIRCRAFT		
19	UNIVERSAL GROUND CONTROL EQUIPMENT.....	2,090 2,090
20	GRAY EAGLE MODS2.....	14,699 14,699
21	MULTI SENSOR ABN RECON (MIP).....	35,189 35,189
22	AH-64 MODS.....	58,172 58,172
23	CH-47 CARGO HELICOPTER MODS.....	11,785 11,785
24	GRCS SEMA MODS (MIP).....	5,677 5,677
25	ARL SEMA MODS (MIP).....	6,566 6,566

52A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
26	EMARSS SEMA MODS (MIP).....	3,859 20,959
27	UTILITY/CARGO AIRPLANE MODS.....	15,476 13,476
28	UTILITY HELICOPTER MODS.....	6,744 16,744
29	NETWORK AND MISSION PLAN.....	105,442 98,226
30	COMMS, NAV SURVEILLANCE.....	164,315 164,315
32	GATM ROLLUP.....	30,966 30,966
33	RQ-7 UAV MODS.....	8,983 8,983
34	UAS MODS.....	10,205 10,205
	TOTAL, MODIFICATION OF AIRCRAFT.....	480,168 498,052
	SUPPORT EQUIPMENT AND FACILITIES	
	GROUND SUPPORT AVIONICS	
35	AIRCRAFT SURVIVABILITY EQUIPMENT.....	52,297 52,297
36	SURVIVABILITY CM.....	8,388 8,388
37	CMWS.....	13,999 13,999
38	COMMON INFRARED COUNTERMEASURES.....	168,784 168,784
	OTHER SUPPORT	
39	AVIONICS SUPPORT EQUIPMENT.....	1,777 1,777
40	COMMON GROUND EQUIPMENT.....	18,624 18,624
41	AIRCREW INTEGRATED SYSTEMS.....	48,255 48,255
42	AIR TRAFFIC CONTROL.....	32,738 32,738
44	LAUNCHER, 2.75 ROCKET.....	2,201 2,201
45	LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE XM2.....	991 991
	TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	348,054 348,054
	TOTAL, AIRCRAFT PROCUREMENT, ARMY.....	3,696,429 3,771,329

52B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 UTILITY F/W CARGO AIRCRAFT Insufficient budget justification	16,000	0 -16,000
4 RQ-11 (RAVEN) Unit cost growth	23,510	21,420 -2,090
7 UH-72 LAKOTA LIGHT UTILITY HELICOPTER Program increase - three aircraft Program increase - expandable rotorcraft diagnostics	0	37,000 27,000 10,000
8 AH-64 APACHE BLOCK IIIA REMAN Unit cost growth Program increase - battle loss	806,849	819,230 -8,064 20,445
12 UH-60 BLACKHAWK (MYP) Unit cost growth Program increase - training loss for National Guard	1,411,540	1,418,604 -13,800 20,864
15 CH-47 HELICOPTER Unit cost growth	140,290	130,951 -9,339
16 CH-47 HELICOPTER (AP-CY) Program increase	18,186	46,186 28,000
26 EMARSS SEMA MODS (MIP) Program increase - performance enhancements	3,859	20,959 17,100
27 UTILITY/CARGO AIRPLANE MODS Unit cost discrepancy	15,476	13,476 -2,000
28 UTILITY HELICOPTER MODS Program increase - enhanced ballistic armor protection system	6,744	16,744 10,000
29 NETWORK AND MISSION PLAN Integration cost increase Program management cost growth	105,442	98,226 -6,216 -1,000

52C

S
FOR

MISSILE PROCUREMENT, ARMY

The agreement provides \$2,995,673,000 for Missile Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 53A-D

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

MISSILE PROCUREMENT, ARMY		
OTHER MISSILES		
SURFACE-TO-AIR MISSILE SYSTEM		
1	SYSTEM INTEGRATION AND TEST PROCUREMENT.....	107,157
2	M-SHORAD - PROCUREMENT.....	75,000
3	MSE MISSILE.....	664,499
4	INDIRECT FIRE PROTECTION CAPABILITY.....	9,337
6	HELLFIRE SYS SUMMARY.....	189,284
AIR-TO-SURFACE MISSILE SYSTEM		
7	JOINT AIR-TO-GROUND MSLS (JAGM)	199,295
ANTI-TANK/ASSAULT MISSILE SYSTEM		
8	JAVELIN (AAWS-M) SYSTEM SUMMARY.....	138,405
9	TOW 2 SYSTEM SUMMARY.....	107,958
10	TOW 2 SYSTEM SUMMARY (AP-CY).....	10,500
11	GUIDED MLRS ROCKET (GMLRS).....	744,810
12	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR).....	27,555
14	ARMY TACTICAL MSL SYS (ATACMS).....	170,013
	TOTAL, OTHER MISSILES.....	2,443,813

MODIFICATION OF MISSILES		
MODIFICATIONS		
16	PATRIOT MODS.....	278,716
17	ATACMS MODS.....	80,320
18	GMLRS MOD.....	5,094
19	STINGER MODS.....	81,615
20	AVENGER MODS.....	14,107
21	ITAS/TOW MODS.....	3,469
22	MLRS MODS.....	39,019
23	HIMARS MODIFICATIONS.....	12,483
	TOTAL, MODIFICATION OF MISSILES.....	514,823

53A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
24		
SPARES AND REPAIR PARTS		
SPARES AND REPAIR PARTS.....	---	26,444
25		
SUPPORT EQUIPMENT AND FACILITIES		
AIR DEFENSE TARGETS.....	---	10,593
TOTAL, SUPPORT EQUIPMENT AND FACILITIES.....	---	10,593
TOTAL, MISSILE PROCUREMENT, ARMY.....	---	2,995,673

538

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1		Budget Request	Final Bill
1	SYSTEM INTEGRATION AND TEST PROCUREMENT	0	107,157
	Transfer from title IX		113,857
	Field Surveillance Program carryover		-6,700
2	M-SHORAD - PROCUREMENT	0	75,000
	Transfer from title IX		103,800
	Pricing adjustments		-28,800
3	MSE MISSILE	0	664,499
	Transfer from title IX		698,603
	AUR unit cost growth		-34,104
4	INDIRECT FIRE PROTECTION CAPABILITY	0	9,337
	Transfer from title IX		9,337
6	HELLFIRE SYS SUMMARY	0	189,284
	Transfer from title IX		193,284
	Excess engineering and program management costs		-4,000
7	JOINT AIR-TO-GROUND MSLS (JAGM)	0	199,295
	Transfer from title IX		233,353
	Contract delays		-34,058
8	JAVELIN (AAWS-M) SYSTEM SUMMARY	0	138,405
	Transfer from title IX		138,405
9	TOW 2 SYSTEM SUMMARY	0	107,958
	Transfer from title IX		114,340
	Unjustified engineering growth		-6,382
10	TOW 2 SYSTEM SUMMARY (AP-CY)	0	10,500
	Transfer from title IX		10,500
11	GUIDED MLRS ROCKET (GMLRS)	0	744,810
	Transfer from title IX		797,213
	AUR unit cost growth		-52,403
12	MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR)	0	27,555
	Transfer from title IX		27,555
14	ARMY TACTICAL MSL SYS (ATACMS)	0	170,013
	Transfer from title IX		209,842
	Cost discrepancies between budget briefs and justification materials		-39,829
16	PATRIOT MODS	0	278,716
	Transfer from title IX		279,464
	RAM mod unit cost growth		-748

P-1		Budget Request	Final Bill
17 ATACMS MODS		0	80,320
Transfer from title IX			85,320
Program management excess growth			-5,000
18 GMLRS MOD		0	5,094
Transfer from title IX			5,094
19 STINGER MODS		0	81,615
Transfer from title IX			81,615
20 AVENGER MODS		0	14,107
Transfer from title IX			14,107
21 ITAS/TOW MODS		0	3,469
Transfer from title IX			3,469
22 MLRS MODS		0	39,019
Transfer from title IX			39,019
23 HIMARS MODIFICATIONS		0	12,483
Transfer from title IX			12,483
24 SPARES AND REPAIR PARTS		0	26,444
Transfer from title IX			26,444
25 AIR DEFENSE TARGETS		0	10,593
Transfer from title IX			10,593

53D

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

The agreement provides \$4,663,597,000 for Procurement of Weapons and Tracked Combat Vehicles, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 54A-C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES (W&TCV), ARMY		
2	TRACKED COMBAT VEHICLES ARMORED MULTI PURPOSE VEHICLE (AMPV).....	264,040 230,307
3	MODIFICATION OF TRACKED COMBAT VEHICLES STRYKER (MOD).....	144,387 393,587
4	STRYKER UPGRADE.....	550,000 513,858
5	BRADLEY PROGRAM (MOD).....	638,781 415,740
6	M109 FOV MODIFICATIONS.....	25,756 25,756
7	PALADIN PIPM MOD IN SERVICE.....	553,425 553,425
9	ASSAULT BRIDGE (MOD).....	2,821 22,021
10	ASSAULT BREACHER VEHICLE.....	31,697 31,697
11	M88 FOV MODS.....	4,500 4,500
12	JOINT ASSAULT BRIDGE.....	205,517 205,517
13	M1 ABRAMS TANK (MOD).....	348,800 340,192
14	ABRAMS UPGRADE PROGRAM.....	1,752,784 1,746,007
	TOTAL, TRACKED COMBAT VEHICLES.....	4,522,508 4,482,607

15	WEAPONS AND OTHER COMBAT VEHICLES M240 MEDIUM MACHINE GUN (7.62MM).....	--- 11,600
16	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON.....	19,420 16,864
17	GUN AUTOMATIC 30MM M230.....	20,000 ---
19	MORTAR SYSTEMS.....	14,907 14,085
20	XM320 GRENADE LAUNCHER MODULE (GLM).....	191 191
21	PRECISION SNIPER RIFLE.....	7,977 5,747
22	COMPACT SEMI-AUTOMATIC SNIPER SYSTEM.....	9,860 9,860
23	CARBINE.....	30,331 30,331
24	SMALL ARMS - FIRE CONTROL.....	8,060 ---
25	COMMON REMOTELY OPERATED WEAPONS STATION.....	24,007 24,007
26	MODULAR HANDGUN SYSTEM.....	6,174 6,174

54A

F

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
28	MOD OF WEAPONS AND OTHER COMBAT VEH MK-19 GRENADE MACHINE GUN MODS.....	3,737 3,737
29	M777 MODS.....	2,367 2,367
30	M4 CARBINE MODS.....	17,595 17,595
33	M240 MEDIUM MACHINE GUN MODS.....	8,000 8,000
34	SNIPER RIFLES MODIFICATIONS.....	2,426 2,426
35	M119 MODIFICATIONS.....	6,269 16,269
36	MORTAR MODIFICATION.....	1,693 1,693
37	MODIFICATIONS LESS THAN \$5.0M (WOCV-WTCV).....	4,327 4,327
	SUPPORT EQUIPMENT AND FACILITIES	
38	ITEMS LESS THAN \$5.0M (WOCV-WTCV).....	3,066 3,066
39	PRODUCTION BASE SUPPORT (WOCV-WTCV).....	2,651 2,651
	TOTAL, WEAPONS AND OTHER COMBAT VEHICLES.....	193,058 180,990
	TOTAL, PROCUREMENT OF W&TCV, ARMY.....	4,715,566 4,663,597

54B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
2 ARMORED MULTI PURPOSE VEHICLE (AMPV)	264,040	230,307
Revised vehicle pricing		-15,997
Vehicle carryover		-17,736
3 STRYKER (MOD)	144,387	393,587
Program increase - 30mm cannon upgrade		249,200
4 STRYKER UPGRADE	550,000	513,858
Overestimation of ASL requirements		-9,104
ICVV unit cost growth		-27,038
5 BRADLEY PROGRAM (MOD)	638,781	415,740
Excess to need		-223,041
9 ASSAULT BRIDGE (MOD)	2,821	22,021
Program increase - Armored Vehicle Launched Bridge		19,200
13 M1 ABRAMS TANK (MOD)	348,800	340,192
Test support excess to need		-8,608
14 ABRAMS UPGRADE PROGRAM	1,752,784	1,746,007
Unit cost growth		-6,777
15 M240 MEDIUM MACHINE GUN (7.62MM)	0	11,600
Program increase		11,600
16 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON	19,420	16,864
Fire control unit cost growth		-880
Revised prior-year hardware costs		-1,676
17 GUN AUTOMATIC 30MM M230	20,000	0
Army-rescinded requirement		-20,000
19 MORTAR SYSTEMS	14,907	14,085
Unit cost growth		-822
21 PRECISION SNIPER RIFLE	7,977	5,747
Unit cost discrepancy		-2,230
24 SMALL ARMS - FIRE CONTROL	8,060	0
Early to need		-8,060
35 M119 MODIFICATIONS	6,269	16,269
Program increase - self-propelled 105mm howitzers		10,000

54C

PROCUREMENT OF AMMUNITION, ARMY

The agreement provides \$2,578,575,000 for Procurement of Ammunition, Army, as follows:

~~(INSERT COMPUTER TABLE)~~^e

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 55A-E

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMUNITION, ARMY		
AMMUNITION		
SMALL/MEDIUM CAL AMMUNITION		
1	CTG, 5.56MM, ALL TYPES.....	63,293
2	CTG, 7.62MM, ALL TYPES.....	112,003
3	CTG, HANDGUN, ALL TYPES.....	17,807
4	CTG, .50 CAL, ALL TYPES.....	62,860
5	CTG, 20MM, ALL TYPES.....	27,432
6	CTG, 25MM, ALL TYPES.....	8,990
7	CTG, 30MM, ALL TYPES.....	65,337
8	CTG, 40MM, ALL TYPES.....	103,952
MORTAR AMMUNITION		
9	60MM MORTAR, ALL TYPES.....	49,580
10	81MM MORTAR, ALL TYPES.....	61,873
11	120MM MORTAR, ALL TYPES.....	123,110
TANK AMMUNITION		
12	CTG TANK 105MM AND 120MM: ALL TYPES.....	121,659
ARTILLERY AMMUNITION		
13	CTG, ARTY, 75MM AND 105MM: ALL TYPES.....	44,675
14	ARTILLERY PROJECTILE, 155MM, ALL TYPES.....	256,037
15	PROJ 155MM EXTENDED RANGE XM982.....	56,027
16	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES...	264,722
MINES		
17	MINES AND CLEARING CHARGES, ALL TYPES.....	39,239
ROCKETS		
18	SHOULDER LAUNCHED MUNITIONS, ALL TYPES.....	67,528
19	ROCKET, HYDRA 70, ALL TYPES.....	170,994

55A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
20	OTHER AMMUNITION CAD/PAD ALL TYPES.....	7,595
21	DEMOLITION MUNITIONS, ALL TYPES.....	51,651
22	GRENADERS, ALL TYPES.....	46,282
23	SIGNALS, ALL TYPES.....	18,609
24	SIMULATORS, ALL TYPES.....	16,054
	MISCELLANEOUS	
25	AMMO COMPONENTS, ALL TYPES.....	2,661
27	ITEMS LESS THAN \$5 MILLION.....	9,213
28	AMMUNITION PECULIAR EQUIPMENT.....	10,044
29	FIRST DESTINATION TRANSPORTATION (AMMO).....	18,492
	TOTAL, AMMUNITION.....	1,897,719
	AMMUNITION PRODUCTION BASE SUPPORT	
31	PRODUCTION BASE SUPPORT PROVISION OF INDUSTRIAL FACILITIES.....	474,511
32	CONVENTIONAL MUNITIONS DEMILITARIZATION, ALL.....	202,512
33	ARMS INITIATIVE.....	3,833
	TOTAL, AMMUNITION PRODUCTION BASE SUPPORT.....	680,856
	TOTAL, PROCUREMENT OF AMMUNITION, ARMY.....	2,578,575

55B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
1 CTG, 5.56MM, ALL TYPES	0	63,293
Transfer from title IX		68,949
Blanks unit cost growth		-2,227
M855A1 Clipped Bulk Pack unit cost growth		-3,429
2 CTG, 7.62MM, ALL TYPES	0	112,003
Transfer from title IX		114,228
M82 and M80A unit cost growth		-2,225
3 CTG, HANDGUN, ALL TYPES	0	17,807
Transfer from title IX		17,807
4 CTG, .50 CAL, ALL TYPES	0	62,860
Transfer from title IX		63,966
Blank, M1A1 w/MP Link unit cost growth		-1,106
5 CTG, 20MM, ALL TYPES	0	27,432
Transfer from title IX		35,920
M33 and M1A1 unit cost growth		-8,488
6 CTG, 25MM, ALL TYPES	0	8,990
Transfer from title IX		8,990
7 CTG, 30MM, ALL TYPES	0	65,337
Transfer from title IX		68,813
PABM acceptance testing previously funded		-1,134
TP-T, MK239 single unit cost growth		-2,342
8 CTG, 40MM, ALL TYPES	0	103,952
Transfer from title IX		103,952
Army requested realignment from M918E1 to M918/M385A1		-83,000
Army requested realignment to M918/M385A1 from M918E1		83,000
9 60MM MORTAR, ALL TYPES	0	49,580
Transfer from title IX		50,580
Unit cost discrepancies		-1,000
10 81MM MORTAR, ALL TYPES	0	61,873
Transfer from title IX		59,373
Program increase - M819		2,500
11 120MM MORTAR, ALL TYPES	0	123,110
Transfer from title IX		125,452
Unit cost growth		-2,342
12 CTG TANK 105MM AND 120MM: ALL TYPES	0	121,659
Transfer from title IX		171,284
HEMP-T XM1147 schedule delay		-5,002
APFDS-T M829A4 schedule delay		-44,623

550

P-1	Budget Request	Final Bill
13 CTG, ARTY, 75MM AND 105MM: ALL TYPES Transfer from title IX	0	44,675 44,675
14 ARTILLERY PROJECTILE, 155MM, ALL TYPES Transfer from title IX XM1113 early to need	0	256,037 266,037 -10,000
15 PROJ 155MM EXTENDED RANGE XM982 Transfer from title IX Product engineering growth	0	56,027 57,434 -1,407
16 ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES Transfer from title IX PGK unit cost growth M782 unjustified product improvements FUZE PD M739 series unit cost discrepancy	0	264,722 271,602 -3,580 -2,700 -600
17 MINES AND CLEARING CHARGES, ALL TYPES Transfer from title IX APOBS contract award delays	0	39,239 55,433 -16,194
18 SHOULDER LAUNCHED MUNITIONS, ALL TYPES Transfer from title IX Program increase - AT4CS tandem warhead BDM program delays	0	67,528 74,878 7,200 -14,550
19 ROCKET, HYDRA 70, ALL TYPES Transfer from title IX Excess support costs	0	170,994 175,994 -5,000
20 CAD/PAD ALL TYPES Transfer from title IX	0	7,595 7,595
21 DEMOLITION MUNITIONS, ALL TYPES Transfer from title IX	0	51,651 51,651
22 GRENADES, ALL TYPES Transfer from title IX XM111 offensive hand grenade early to need Program increase	0	46,282 40,592 -2,310 8,000
23 SIGNALS, ALL TYPES Transfer from title IX	0	18,609 18,609
24 SIMULATORS, ALL TYPES Transfer from title IX	0	16,054 16,054
25 AMMO COMPONENTS, ALL TYPES Transfer from title IX Prior year carryover	0	2,661 5,261 -2,600

(55D)

P-1	Budget Request	Final Bill
26 NON-LETHAL AMMUNITION, ALL TYPES Transfer from title IX Prior year carryover	0	0 715 -715
27 ITEMS LESS THAN \$5 MILLION Transfer from title IX	0	9,213 9,213
28 AMMUNITION PECULIAR EQUIPMENT Transfer from title IX	0	10,044 10,044
29 FIRST DESTINATION TRANSPORTATION (AMMO) Transfer from title IX	0	18,492 18,492
30 CLOSEOUT LIABILITIES Transfer from title IX Prior year carryover	0	0 99 -99
31 INDUSTRIAL FACILITIES Transfer from title IX	0	474,511 474,511
32 CONVENTIONAL MUNITIONS DEMILITARIZATION Transfer from title IX	0	202,512 202,512
33 ARMS INITIATIVE Transfer from title IX	0	3,833 3,833

55E

F

OTHER PROCUREMENT, ARMY

The agreement provides \$7,581,524,000 for Other Procurement, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 56A-K

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

OTHER PROCUREMENT, ARMY		
TACTICAL AND SUPPORT VEHICLES		
TACTICAL VEHICLES		
1	TACTICAL TRAILERS/DOLLY SETS.....	12,993 12,993
2	SEMITRAILERS, FLATBED:.....	102,386 102,386
3	HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE (HMMWV)...	127,271 127,271
4	GROUND MOBILITY VEHICLES (GMV).....	37,038 37,038
5	ARNG HMMWV MODERNIZATION PROGRAM.....	--- 100,000
6	JOINT LIGHT TACTICAL VEHICLE.....	996,007 972,407
7	TRUCK, DUMP, 20t (CCE).....	10,838 10,838
8	FAMILY OF MEDIUM TACTICAL VEH (FMTV).....	72,057 138,057
9	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMEN.....	28,048 28,048
10	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV).....	9,969 9,969
11	PLS ESP.....	6,280 6,280
12	HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV.....	30,841 131,841
13	HMMWV RECAPITALIZATION PROGRAM.....	5,734 30,734
14	TACTICAL WHEELED VEHICLE PROTECTION KITS.....	45,113 45,113
15	MODIFICATION OF IN SVC EQUIP.....	58,946 57,112
NON-TACTICAL VEHICLES		
17	HEAVY ARMORED SEDAN.....	791 791
18	PASSENGER CARRYING VEHICLES.....	1,416 1,416
19	NONTACTICAL VEHICLES, OTHER.....	29,891 29,891

	TOTAL, TACTICAL AND SUPPORT VEHICLES.....	1,575,619 1,842,185
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		
COMM - JOINT COMMUNICATIONS		
21	SIGNAL MODERNIZATION PROGRAM.....	153,933 128,913
22	TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE.....	387,439 443,439
23	SITUATION INFORMATION TRANSPORT.....	46,693 46,693
25	JCSE EQUIPMENT (USREDCOM).....	5,075 5,075
COMM - SATELLITE COMMUNICATIONS		
28	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS.....	101,189 98,399
29	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS.....	77,141 92,141
30	SHF TERM.....	16,054 15,054
31	ASSURED POSITIONING, NAVIGATION AND TIMING.....	41,074 31,674
32	SMART-T (SPACE).....	10,515 10,515
33	GLOBAL BRDCST SVC - GBS.....	11,800 11,800

56A

(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
34	ENROUTE MISSION COMMAND (EMC).....	8,609	8,609
38	COMM - C3 SYSTEM COE TACTICAL SERVER INFRASTRUCTURE (TSI).....	77,533	67,533
39	COMM - COMBAT COMMUNICATIONS HANDHELD MANPACK SMALL FORM FIT (HMS).....	468,026	468,026
40	RADIO TERMINAL SET, MIDS LVT(2).....	23,778	23,778
44	SPIDER FAMILY OF NETWORKED MUNITIONS INCREASE.....	10,930	10,930
46	UNIFIED COMMAND SUITE.....	9,291	18,291
47	COTS COMMUNICATIONS EQUIPMENT.....	55,630	55,630
48	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE.....	16,590	16,590
49	ARMY COMMUNICATIONS & ELECTRONICS.....	43,457	37,856
50	COMM - INTELLIGENCE COMM CI AUTOMATION ARCHITECTURE (MIP).....	10,470	10,470
51	DEFENSE MILITARY DECEPTION INITIATIVE.....	3,704	3,704
53	INFORMATION SECURITY FAMILY OF BIOMETRICS.....	1,000	1,000
54	INFORMATION SYSTEM SECURITY PROGRAM-ISSP.....	3,600	3,600
55	COMMUNICATIONS SECURITY (COMSEC).....	160,899	147,097
56	DEFENSIVE CYBER OPERATIONS.....	61,962	56,962
57	INSIDER THREAT PROGRAM - UNIT ACTIVITY MONITOR.....	756	756
58	PERSISTENT CYBER TRAINING ENVIRONMENT.....	3,000	3,000
59	COMM - LONG HAUL COMMUNICATIONS BASE SUPPORT COMMUNICATIONS.....	31,770	31,770
60	COMM - BASE COMMUNICATIONS INFORMATION SYSTEMS.....	159,009	159,009
61	EMERGENCY MANAGEMENT MODERNIZATION PROGRAM.....	4,854	4,854
62	HOME STATION MISSION COMMAND CENTERS (MSMCC).....	47,174	47,174
63	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM.....	297,994	265,494

56B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
ELECT EQUIP		
66	ELECT EQUIP - TACT INT REL ACT (TIARA) JTT/CIBS-M (MIP).....	7,686 7,686
68	DCGS-A (MIP).....	180,350 166,606
70	TROJAN (MIP).....	17,368 17,368
71	MOD OF IN-SVC EQUIP (INTEL SPT) (MIP).....	59,052 59,052
ELECT EQUIP - ELECTRONIC WARFARE (EW)		
77	LIGHTWEIGHT COUNTER MORTAR RADAR.....	5,400 5,400
78	EW PLANNING AND MANAGEMENT TOOLS.....	7,568 7,568
79	AIR VIGILANCE (AV).....	8,953 8,953
81	MULTI-FUNCTION ELECTRONIC WARFARE (MFEW) SYST.....	6,420 ---
83	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES.....	501 501
84	CI MODERNIZATION (MIP).....	121 121
ELECT EQUIP - TACTICAL SURV. (TAC SURV)		
85	SENTINEL MODS.....	115,210 113,910
86	NIGHT VISION DEVICES.....	236,604 81,526
88	SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF.....	22,623 22,623
90	INDIRECT FIRE PROTECTION FAMILY OF SYSTEMS.....	29,127 29,127
91	FAMILY OF WEAPON SIGHTS (FWS).....	120,883 81,541
94	JOINT BATTLE COMMAND - PLATFORM (JBC-P).....	265,667 256,546
95	JOINT EFFECTS TARGETING SYSTEM (JETS).....	69,720 25,330
96	MOD OF IN-SERVICE EQUIPMENT (LLDR).....	6,044 6,044
97	COMPUTER BALLISTICS: LHMCB XM32.....	3,268 3,268
98	MORTAR FIRE CONTROL SYSTEM.....	13,199 13,199
99	MORTAR FIRE CONTROL SYSTEM MODIFICATIONS.....	10,000 10,000
100	COUNTERFIRE RADARS.....	16,416 16,416

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
102	ELECT EQUIP - TACTICAL C2 SYSTEMS FIRE SUPPORT C2 FAMILY.....	13,197 13,197
103	AIR & MSL DEFENSE PLANNING & CONTROL SYS (AMD).....	24,730 24,730
104	IAMD BATTLE COMMAND SYSTEM.....	29,629 29,629
105	LIFE CYCLE SOFTWARE SUPPORT (LCSS).....	6,774 6,774
106	NETWORK MANAGEMENT INITIALIZATION AND SERVICE.....	24,448 24,448
107	MANEUVER CONTROL SYSTEM (MCS).....	260 260
108	GLOBAL COMBAT SUPPORT SYSTEM-ARMY.....	17,962 8,815
109	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY.....	18,674 14,100
110	RECONNAISSANCE AND SURVEYING INSTRUMENT SET.....	11,000 11,000
111	MOD OF IN-SERVICE EQUIPMENT (ENFIRE).....	7,317 15,317
112	ELECT EQUIP - AUTOMATION ARMY TRAINING MODERNIZATION.....	14,578 14,578
113	AUTOMATED DATA PROCESSING EQUIPMENT.....	139,342 138,215
114	GENERAL FUND ENTERPRISE BUSINESS SYSTEM.....	15,802 15,002
115	HIGH PERF COMPUTING MOD PROGRAM.....	67,610 72,610
116	CONTRACT WRITING SYSTEM.....	15,000 6,000
117	CSS COMMUNICATIONS.....	24,700 24,700
118	RESERVE COMPONENT AUTOMATION SYS (RCAS).....	27,879 27,879
120	ELECT EQUIP - AUDIO VISUAL SYS (A/V) ITEMS LESS THAN \$5M (SURVEYING EQUIPMENT).....	5,000 5,000
122	ELECT EQUIP - SUPPORT BCT EMERGING TECHNOLOGIES.....	22,302 19,312
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	4,039,333 3,730,187

560

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL	

OTHER SUPPORT EQUIPMENT			
CHEMICAL DEFENSIVE EQUIPMENT			
124	FAMILY OF NON-LETHAL EQUIPMENT (FNLE).....	---	3,000
126	CBRN DEFENSE.....	25,828	25,828
127	SMOKE & OBSCURANT FAMILY: SOF (NON AAO ITEM).....	5,050	5,050
BRIDGING EQUIPMENT			
128	TACTICAL BRIDGING.....	59,821	59,821
129	TACTICAL BRIDGE, FLOAT-RIBBON.....	57,661	57,661
130	BRIDGE SUPPLEMENTAL SET.....	17,966	17,966
131	COMMON BRIDGE TRANSPORTER RECAP.....	43,155	43,155
ENGINEER (NON-CONSTRUCTION) EQUIPMENT			
132	HANDHELD STANDOFF MINEFIELD DETECTION SYS-HST.....	7,570	7,570
133	GROUND STANDOFF MINE DETECTION SYSTEM (GSTAMIDS).....	37,025	37,025
135	HUSKY MOUNTED DETECTION SYSTEM (HMDS).....	83,082	47,515
136	ROBOTIC COMBAT SUPPORT SYSTEM.....	2,000	2,000
137	EOD ROBOTICS SYSTEMS RECAPITALIZATION.....	23,115	23,115
138	ROBOTICS AND APPLIQUE SYSTEMS.....	101,056	101,056
140	RENDER SAFE SETS KITS OUTFITS.....	18,684	18,684
142	FAMILY OF BOATS AND MOTORS.....	8,245	5,745
COMBAT SERVICE SUPPORT EQUIPMENT			
143	HEATERS AND ECU'S.....	7,336	7,336
145	PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS).....	4,281	4,281
146	GROUND SOLDIER SYSTEM.....	111,955	114,505
147	MOBILE SOLDIER POWER.....	31,364	29,364
148	FORCE PROVIDER.....	---	8,000
149	FIELD FEEDING EQUIPMENT.....	1,673	15,973
150	CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM.....	43,622	42,622
151	FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS.....	11,451	11,451
152	ITEMS LESS THAN \$5M (ENG SPT).....	5,167	4,128

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
154	PETROLEUM EQUIPMENT DISTRIBUTION SYSTEMS, PETROLEUM & WATER.....	74,867 72,118
155	MEDICAL EQUIPMENT COMBAT SUPPORT MEDICAL.....	68,225 98,616
156	MAINTENANCE EQUIPMENT MOBILE MAINTENANCE EQUIPMENT SYSTEMS.....	55,053 140,053
157	ITEMS LESS THAN \$5.0M (MAINT EQ).....	5,608 5,608
161	CONSTRUCTION EQUIPMENT HYDRAULIC EXCAVATOR.....	500 500
162	TRACTOR, FULL TRACKED.....	4,835 4,835
163	ALL TERRAIN CRANES.....	23,936 23,003
164	HIGH MOBILITY ENGINEER EXCAVATOR (HMEE) FOS.....	27,188 27,188
166	CONST EQUIP ESP.....	34,790 34,790
167	ITEMS LESS THAN \$5.0M (CONST EQUIP).....	4,381 4,381
168	RAIL FLOAT CONTAINERIZATION EQUIPMENT ARMY WATERCRAFT ESP.....	35,194 35,194
169	MANEUVER SUPPORT VESSEL (MSV).....	14,185 14,185
170	ITEMS LESS THAN \$5.0M (FLOAT/RAIL).....	6,920 6,920
171	GENERATORS GENERATORS AND ASSOCIATED EQUIPMENT.....	58,566 113,476
172	TACTICAL ELECTRIC POWER RECAPITALIZATION.....	14,814 14,814
173	MATERIAL HANDLING EQUIPMENT FAMILY OF FORKLIFTS.....	14,864 13,864
174	TRAINING EQUIPMENT COMBAT TRAINING CENTERS SUPPORT.....	123,411 123,411
175	TRAINING DEVICES, NONSYSTEM.....	220,707 213,347
176	SYNTHETIC TRAINING ENVIRONMENT (STE).....	20,749 14,449
178	AVIATION COMBINED ARMS TACTICAL TRAINER (AVCA).....	4,840 4,840
179	GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING.....	15,463 15,463
180	TEST MEASURE AND DIG EQUIPMENT (TMD) CALIBRATION SETS EQUIPMENT.....	3,030 3,030
181	INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE).....	76,980 76,980
182	TEST EQUIPMENT MODERNIZATION (TEMOD).....	16,415 13,415
184	OTHER SUPPORT EQUIPMENT RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT.....	9,877 9,877
185	PHYSICAL SECURITY SYSTEMS (OPA3).....	82,158 78,958
186	BASE LEVEL COM'L EQUIPMENT.....	15,340 15,340
187	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3).....	50,458 73,458

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
189 BUILDING, PRE-FAB, RELOCATABLE.....	14,400	32,700
190 SPECIAL EQUIPMENT FOR USER TESTING.....	9,821	9,821
TOTAL, OTHER SUPPORT EQUIPMENT.....	1,814,682	1,987,485
SPARE AND REPAIR PARTS		
192 INITIAL SPARES - C&E.....	9,757	9,757
999 CLASSIFIED PROGRAMS.....	3,710	11,910
TOTAL, OTHER PROCUREMENT, ARMY.....	7,443,101	7,581,524

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
5 ARNG HMMWV MODERNIZATION PROGRAM Program increase	0	100,000 100,000
6 JOINT LIGHT TACTICAL VEHICLE Army requested transfer to RDTE,A line 169 Revised TADSS acquisition strategy	996,007	972,407 -4,500 -19,100
8 FAMILY OF MEDIUM TACTICAL VEH (FMTV) Program increase	72,057	138,057 66,000
12 HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV Program increase	30,841	131,841 101,000
13 HMMWV RECAPITALIZATION PROGRAM Program increase	5,734	30,734 25,000
15 MODIFICATION OF IN SVC EQUIP Program management carryover	58,946	57,112 -1,834
21 SIGNAL MODERNIZATION PROGRAM Spares excess funding TROPO delay	153,933	128,913 -5,000 -20,020
22 TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE Program increase - Armored Brigade Combat Teams On The Move SATCOM obsolescence-Satellite Transportable Terminals previously funded	387,439	443,439 71,000 -15,000
28 DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS Technology refresh excess growth	101,189	98,399 -2,790
29 TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS Program increase	77,141	92,141 15,000
30 SHF TERM Historical underexecution	16,054	15,054 -1,000
31 ASSURED POSITIONING, NAVIGATION AND TIMING Pseudolite no longer needed Dismounted support funded in RDTE,A	41,074	31,674 -7,400 -2,000
38 COE TACTICAL SERVER INFRASTRUCTURE (TSI) TSI acquisition strategy	77,533	67,533 -10,000
39 HANDHELD MANPACK SMALL FORM FIT (HMS) Excess to need Program increase - SFAB refresh	468,026	468,026 -20,000 20,000

(564)

P-1		Budget Request	Final Bill
46	UNIFIED COMMAND SUITE Program increase	9,291	18,291 9,000
49	ARMY COMMUNICATIONS & ELECTRONICS Classified adjustment	43,457	37,856 -5,601
55	COMMUNICATIONS SECURITY (COMSEC) INE quantity discrepancies Secure voice quantity discrepancies	160,899	147,097 -9,867 -3,935
56	DEFENSIVE CYBER OPERATIONS Rapid prototyping fund unjustified request Inconsistent justification material	61,962	56,962 -2,000 -3,000
63	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM Excess to need	297,994	265,494 -32,500
68	DCGS-A (MIP) Unjustified software growth	180,350	166,606 -13,744
81	MULTI-FUNCTION ELECTRONIC WARFARE (MFEW) SYST Early to need	6,420	0 -6,420
85	SENTINEL MODS Excess support costs	115,210	113,910 -1,300
86	NIGHT VISION DEVICES IVAS early to need ENVG-B program of record unit cost growth Program increase - digital night vision test devices ENVG-B ONS excess to need	236,604	81,526 -76,225 -17,509 3,000 -64,344
91	FAMILY OF WEAPON SIGHTS (FWS) FWS-CS contract delays	120,883	81,541 -39,342
94	JOINT BATTLE COMMAND - PLATFORM (JBC-P) Unjustified fielding growth Unjustified ancillary equipment growth	265,667	256,546 -3,653 -5,468
95	JOINT EFFECTS TARGETING SYSTEM (JETS) Production issues	69,720	25,330 -44,390
108	GLOBAL COMBAT SUPPORT SYSTEM-ARMY Forward financing increment 2 fielding	17,962	8,815 -9,147
109	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY Excess to requirements	18,674	14,100 -4,574
111	MOD OF IN-SERVICE EQUIPMENT (ENFIRE) Program increase - land surveying systems	7,317	15,317 8,000

56I

P-1	Budget Request	Final Bill
113 AUTOMATED DATA PROCESSING EQUIPMENT Accessions Information Environment early to need	139,342	138,215 -1,127
114 GENERAL FUND ENTERPRISE BUSINESS SYSTEM GFEBS unjustified growth	15,802	15,002 -800
115 HIGH PERF COMPUTING MOD PROGRAM Program increase - virtual prototyping	67,610	72,610 5,000
116 CONTRACT WRITING SYSTEM License requirements forward financed	15,000	6,000 -9,000
122 BCT EMERGING TECHNOLOGIES Lack of defined requirements	22,302	19,312 -2,990
124 FAMILY OF NON-LETHAL EQUIPMENT (FNLE) Program increase - acoustic hailing devices	0	3,000 3,000
135 HUSKY MOUNTED DETECTION SYSTEM (HMDS) GPR unit cost savings DBD insufficient justification	83,082	47,515 -6,185 -29,382
142 FAMILY OF BOATS AND MOTORS Unit cost growth	8,245	5,745 -2,500
146 GROUND SOLDIER SYSTEM Sustainment support carryover Program increase - fire detection	111,955	114,505 -4,950 7,500
147 MOBILE SOLDIER POWER Unit cost growth	31,364	29,364 -2,000
148 FORCE PROVIDER Program increase - expeditionary shelter protection system	0	8,000 8,000
149 FIELD FEEDING EQUIPMENT Program increase - multi-temperature refrigerated container system	1,673	15,973 14,300
150 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM MC-6 unit cost adjustments	43,622	42,622 -1,000
152 ITEMS LESS THAN \$5M (ENG SPT) Unjustified management growth	5,167	4,128 -1,039
154 DISTRIBUTION SYSTEMS, PETROLEUM & WATER HIPPO unit cost growth Unjustified MTTRS data growth	74,867	72,118 -1,249 -1,500

56J

P-1	Budget Request	Final Bill
155 COMBAT SUPPORT MEDICAL	68,225	98,616
Program increase - combat support hospital deployable infrastructure		10,000
Laboratory science equipment unjustified growth		-3,394
Program increase - enhanced vehicle medical kits		10,000
Program increase - upgrades to prepositioned hospital centers in EUCOM		13,785
156 MOBILE MAINTENANCE EQUIPMENT SYSTEMS	55,053	140,053
Program increase - next generation HMMWV shop equipment		
contact maintenance vehicle		85,000
163 ALL TERRAIN CRANES	23,936	23,003
Unit cost growth		-933
171 GENERATORS AND ASSOCIATED EQUIPMENT	58,566	113,476
Program increase - AMMPS		54,910
173 FAMILY OF FORKLIFTS	14,864	13,864
Unjustified fielding growth		-1,000
175 TRAINING DEVICES, NONSYSTEM	220,707	213,347
Unjustified JPMRC growth		-3,000
Unjustified NSTD furniture and fixtures growth		-4,360
176 SYNTHETIC TRAINING ENVIRONMENT (STE)	20,749	14,449
Acquisition strategy		-6,300
182 TEST EQUIPMENT MODERNIZATION (TEMOD)	16,415	13,415
Historical underexecution		-3,000
185 PHYSICAL SECURITY SYSTEMS (OPA3)	82,158	78,958
Standardized Intrusion Detection System unjustified growth		-3,200
187 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)	50,458	73,458
Program increase - RTCH		10,000
Program increase - solid-waste disposal systems		13,000
189 BUILDING, PRE-FAB, RELOCATABLE	14,400	32,700
Army requested transfer to title IX		-14,400
Program increase - Stryker vehicle protective shelters		32,700
999 CLASSIFIED PROGRAMS	3,710	11,910
Transfer from title IX		8,200

56K

AIRCRAFT PROCUREMENT, NAVY

The agreement provides \$19,605,513,000 for Aircraft Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

insert 57A-F

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, NAVY		
COMBAT AIRCRAFT		
1	F/A-18E/F (FIGHTER) HORNET (MYP)	1,748,934 1,708,798
2	F/A-18E/F (FIGHTER) HORNET (MYP) (AP)	55,128 53,154
3	JOINT STRIKE FIGHTER CV	2,272,301 2,114,301
4	JOINT STRIKE FIGHTER CV (AP-CY)	339,053 339,053
5	JSF STOVL	1,342,035 1,897,401
6	JSF STOVL (AP-CY)	291,804 291,804
7	CH-53K (HEAVY LIFT)	807,876 847,592
8	CH-53K (HEAVY LIFT) (AP-CY)	215,014 215,014
9	V-22 (MEDIUM LIFT)	966,666 1,237,559
10	V-22 (MEDIUM LIFT) (AP-CY)	27,104 26,083
11	UH-1Y/AH-1Z	62,003 43,982
13	MH-60R	894 894
14	P-8A POSEIDON	1,206,701 1,668,073
16	E-2D ADV HAWKEYE	744,484 1,070,237
17	E-2D ADV HAWKEYE (AP-CY)	190,204 190,204
	TOTAL, COMBAT AIRCRAFT	----- 10,270,201 11,704,149
TRAINER AIRCRAFT		
19	ADVANCED HELICOPTER TRAINING SYSTEM	261,160 247,265
	TOTAL, TRAINER AIRCRAFT	----- 261,160 247,265

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

20	OTHER AIRCRAFT	
	KC-130J.....	240,840 240,840
21	KC-130J (AP-CY).....	66,061 66,061
22	F-5.....	39,676 39,676
23	MQ-4 TRITON.....	473,134 435,733
24	MQ-4 TRITON (AP-CY).....	20,139 20,139
25	MQ-8 UAV.....	44,957 44,957
26	STUASLO UAV.....	43,819 32,819
27A	OTHER SUPPORT AIRCRAFT.....	--- 14,300
28	VH-92A EXECUTIVE HELO.....	658,067 640,994
	TOTAL, OTHER AIRCRAFT.....	1,586,693 1,535,519

	MODIFICATION OF AIRCRAFT	
29	AEA SYSTEMS.....	44,470 33,843
30	AV-8 SERIES.....	39,472 38,231
31	ADVERSARY.....	3,415 3,415
32	F-18 SERIES.....	1,207,089 1,129,318
33	H-53 SERIES.....	68,385 68,385
34	MH-60 SERIES.....	149,797 141,612
35	H-1 SERIES.....	114,059 114,059
36	EP-3 SERIES.....	8,655 8,655
38	E-2 SERIES.....	117,059 117,059
39	TRAINER A/C SERIES.....	5,616 5,616
40	C-2A.....	15,747 13,747
41	C-130 SERIES.....	122,671 91,093
42	FEWSG.....	509 509
43	CARGO/TRANSPORT A/C SERIES.....	8,767 8,767
44	E-6 SERIES.....	169,827 153,573
45	EXECUTIVE HELICOPTERS SERIES.....	8,933 8,933
47	T-45 SERIES.....	186,022 174,526
48	POWER PLANT CHANGES.....	16,136 16,136
49	JPATS SERIES.....	21,824 21,824
50	AVIATION LIFE SUPPORT MODS.....	39,762 39,762
51	COMMON ECM EQUIPMENT.....	162,839 155,410
52	COMMON AVIONICS CHANGES.....	102,107 82,978

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
53	COMMON DEFENSIVE WEAPON SYSTEM.....	2,100 2,100
54	ID SYSTEMS.....	41,437 41,437
55	P-8 SERIES.....	107,539 74,610
56	MAGTF EW FOR AVIATION.....	26,536 26,536
57	MQ-8 SERIES.....	34,686 31,686
58	V-22 (TILT/ROTOR ACFT) OSPREY.....	325,367 325,367
59	NEXT GENERATION JAMMER (NGJ).....	6,223 ---
60	F-35 STOVL SERIES.....	65,585 65,585
61	F-35 CV SERIES.....	15,358 15,358
62	QUICK REACTION CAPABILITY (QRC).....	165,016 163,373
63	MQ-4 SERIES.....	27,994 27,994
64	RQ-21 SERIES.....	66,282 61,032
	TOTAL, MODIFICATION OF AIRCRAFT.....	3,497,284 3,262,529
67	AIRCRAFT SPARES AND REPAIR PARTS SPARES AND REPAIR PARTS.....	2,166,788 2,168,602
68	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES COMMON GROUND EQUIPMENT.....	491,025 448,288
69	AIRCRAFT INDUSTRIAL FACILITIES.....	71,335 71,335
70	WAR CONSUMABLES.....	41,086 32,086
72	SPECIAL SUPPORT EQUIPMENT.....	135,740 135,740
73	FIRST DESTINATION TRANSPORTATION.....	892 ---
	TOTAL, AIRCRAFT SUPPORT EQUIPMENT & FACILITIES.....	740,078 687,449
	TOTAL, AIRCRAFT PROCUREMENT, NAVY.....	18,522,204 19,605,513

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 F/A-18E/F (FIGHTER) HORNET (MYP)	1,748,934	1,708,798
ECO excess growth		-12,336
Contract award savings		-27,800
2 F/A-18E/F (FIGHTER) HORNET (MYP) (AP)	55,128	53,154
Engine excess cost growth		-1,974
3 JOINT STRIKE FIGHTER CV	2,272,301	2,114,301
Unit cost savings		-148,000
Other corporate ops carryover		-10,000
5 JSF STOVL	1,342,035	1,897,401
Unit cost savings		-83,000
NRE excess growth		-20,834
Other corporate ops carryover		-10,000
Program increase - six aircraft		669,200
7 CH-53K (HEAVY LIFT)	807,876	847,592
NRE excess growth		-13,977
Full funding of fiscal year 2020 aircraft		53,693
9 V-22 (MEDIUM LIFT)	966,666	1,237,559
Support cost excess growth		-39,107
Program increase - four additional aircraft for the Marine Corps		310,000
10 V-22 (MEDIUM LIFT) (AP-CY)	27,104	26,083
CMV-22 excess cost growth		-1,021
11 UH-1Y/AH-1Z	62,003	43,982
Production line shutdown excess to need		-18,021
14 P-8A POSEIDON	1,206,701	1,668,073
Unit cost growth		-12,528
Production engineering support excess growth		-27,900
Other ILS excess growth		-39,400
Program increase - three additional aircraft for the Navy Reserve		541,200
16 E-2D ADV HAWKEYE	744,484	1,070,237
GFE electronics excess growth		-3,447
Anticipated unit cost contract award savings		-5,000
Peculiar ground support equipment unjustified growth		-12,300
Program increase - two additional aircraft		346,500
19 ADVANCED HELICOPTER TRAINING SYSTEM	261,160	247,265
Program reduction		-13,895

57D

P-1		Budget Request	Final Bill
23	MQ-4 TRITON	473,134	435,733
	Airframe PGSE excess growth		-24,901
	Unjustified unit cost growth		-12,500
26	STUASLO UAV	43,819	32,819
	Contract award delays		-11,000
27A	OTHER SUPPORT AIRCRAFT	0	14,300
	Program increase - additional UC-12W for USMC		14,300
28	VH-92A EXECUTIVE HELO	658,067	640,994
	ECO excess growth		-7,073
	Excess support costs		-10,000
29	AEA SYSTEMS	44,470	33,843
	Vertical polarized antenna previously funded		-1,671
	Installation equipment excess growth		-8,956
30	AV-8 SERIES	39,472	38,231
	AV-8B litening pod (OSIP 023-00) installation kits previously funded		-1,241
32	F-18 SERIES	1,207,089	1,129,318
	Support costs previously funded (OSIP 11-84)		-2,564
	F/A-18 upgrade ECP-583 (OSIP 21-00) early to need		-11,000
	Installation of ECP-6234C1 early to need (OSIP 14-03)		-175
	IRST modifications early to need		-33,710
	IRST support equipment excess to need		-5,556
	Unit cost growth		-24,766
34	MH-60 SERIES	149,797	141,612
	NRE prior year carryover (OSIP 018-12)		-5,685
	MC/FMC B kits excess to need		-2,500
40	C-2A	15,747	13,747
	ARC-210 radio program cancellation		-2,000
41	C-130 SERIES	122,671	91,093
	Installation early to need (OSIP 022-07)		-4,785
	Kits previously funded (OSIP 008-12)		-3,085
	Installation cost growth (OSIP 020-12)		-2,408
	Block 8.1 upgrade program delay (OSIP 019-14)		-21,300
44	E-6 SERIES	169,827	153,573
	Unjustified growth		-16,254
47	T-45 SERIES	186,022	174,526
	NRE previously funded (OSIP 003-03)		-1,708
	Installation cost growth (OSIP 022-14)		-6,008
	Prior year carryover		-3,780

57E

P-1	Budget Request	Final Bill
51 COMMON ECM EQUIPMENT	162,839	155,410
MV-22 kit cost growth (OSIP 014-90)		-2,327
H-1 kit cost growth (OSIP 014-90)		-1,802
Install equip AN/APR-39 MV-22 unit cost growth		-3,300
52 COMMON AVIONICS CHANGES	102,107	82,978
Installation equipment growth early to need		-10,988
Common mission computing and displays concurrency (OSIP 06-20)		-8,141
55 P-8 SERIES	107,539	74,610
Increment 3 ECP 6 early to need (OSIP 006-18)		-32,929
57 MQ-8 SERIES	34,686	31,686
UCARS redundancy retrofit previously funded (OSIP 021-14)		-3,000
59 NEXT GENERATION JAMMER (NGJ)	6,223	0
Procurement early to need		-6,223
62 QUICK REACTION CAPABILITY (QRC)	165,016	163,373
Unit cost growth (OSIP 11-16)		-1,643
64 RQ-21 SERIES	66,282	61,032
B kits unjustified growth (OSIP 004-20)		-5,250
67 SPARES AND REPAIR PARTS	2,166,788	2,168,602
MQ-4 Triton spares excess growth		-63,986
CH-53K spares excess growth		-15,000
Program increase - F-35B engines		28,800
Program increase - F/A-18 E/F engines		52,000
68 COMMON GROUND EQUIPMENT	491,025	448,288
Cryogenics contract award delay		-1,800
Other flight training cost growth		-19,983
Other flight training previously funded		-20,954
70 WAR CONSUMABLES	41,086	32,086
BRU-61 previously funded		-9,000
73 FIRST DESTINATION TRANSPORTATION	892	0
Prior year carryover		-892

(57F)

WEAPONS PROCUREMENT, NAVY

The agreement provides \$4,017,470,000 for Weapons Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 58A-E

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

WEAPONS PROCUREMENT, NAVY		
BALLISTIC MISSILES		
MODIFICATION OF MISSILES		
1	TRIDENT II MODS.....	1,165,736
SUPPORT EQUIPMENT AND FACILITIES		
2	MISSILE INDUSTRIAL FACILITIES.....	7,142

	TOTAL, BALLISTIC MISSILES.....	1,172,878
OTHER MISSILES		
STRATEGIC MISSILES		
3	TOMAHAWK.....	386,157
TACTICAL MISSILES		
4	AMRAAM.....	211,827
5	SIDEWINDER.....	115,039
7	STANDARD MISSILE.....	404,523
8	STANDARD MISSILE (AP-CY).....	96,085
9	SMALL DIAMETER BOMB II.....	108,452
10	RAM.....	106,765
12	HELLFIRE.....	1,525
15	AERIAL TARGETS.....	144,061
17	OTHER MISSILE SUPPORT.....	3,388
18	LRASM.....	72,544
19	LCS OTH MISSILE.....	38,137
MODIFICATION OF MISSILES		
20	ESSM.....	102,601
21	HARPOON MODS.....	23,585
22	HARM MODS.....	183,740
23	STANDARD MISSILE MODS.....	2,500
SUPPORT EQUIPMENT AND FACILITIES		
24	WEAPONS INDUSTRIAL FACILITIES.....	12,006
25	FLEET SATELLITE COMM FOLLOW-ON.....	63,080
ORDNANCE SUPPORT EQUIPMENT		
27	ORDNANCE SUPPORT EQUIPMENT.....	85,717

	TOTAL, OTHER MISSILES.....	2,161,732

58A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

TORPEDOES AND RELATED EQUIPMENT		
TORPEDOES AND RELATED EQUIP		
28	SSTD.....	5,561
29	MK-48 TORPEDO.....	130,000
30	ASW TARGETS.....	15,095
MOD OF TORPEDOES AND RELATED EQUIP		
31	MK-54 TORPEDO MODS.....	103,860
32	MK-48 TORPEDO ADCAP MODS.....	39,508
33	QUICKSTRIKE MINE.....	5,183
SUPPORT EQUIPMENT		
34	TORPEDO SUPPORT EQUIPMENT.....	68,225
35	ASW RANGE SUPPORT.....	3,890
DESTINATION TRANSPORTATION		
36	FIRST DESTINATION TRANSPORTATION.....	3,803

	TOTAL, TORPEDOES AND RELATED EQUIPMENT.....	375,125
OTHER WEAPONS		
GUNS AND GUN MOUNTS		
37	SMALL ARMS AND WEAPONS.....	13,607
MODIFICATION OF GUNS AND GUN MOUNTS		
38	CIWS MODS.....	44,126
39	COAST GUARD WEAPONS.....	43,927
40	GUN MOUNT MODS.....	62,579
41	LCS MODULE WEAPONS.....	10,998
43	AIRBORNE MINE NEUTRALIZATION SYSTEMS.....	7,160

	TOTAL, OTHER WEAPONS.....	182,397
45	SPARES AND REPAIR PARTS.....	117,838
45	UNDISTRIBUTED INCREASE - ESB.....	7,500

	TOTAL, WEAPONS PROCUREMENT, NAVY.....	4,017,470
=====		

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 TRIDENT II MODS	0	1,165,736
Transfer from title IX		1,177,251
Tooling, test/support equipment excess growth		-11,515
2 MISSILE INDUSTRIAL FACILITIES	0	7,142
Transfer from title IX		7,142
3 TOMAHAWK	0	386,157
Transfer from title IX		386,730
Production engineering excess support growth		-2,000
MST kits early to need		-16,963
MST support early to need		-436
Support equipment requirements previously funded		-13,380
Excess to need		-17,794
Program increase		50,000
4 AMRAAM	0	211,827
Transfer from title IX		224,502
AUR unit cost growth		-12,675
5 SIDEWINDER	0	115,039
Transfer from title IX		119,456
AUR unit cost growth		-3,983
CATM unit cost growth		-434
7 STANDARD MISSILE	0	404,523
Transfer from title IX		404,523
8 STANDARD MISSILE (AP-CY)	0	96,085
Transfer from title IX		96,085
9 SMALL DIAMETER BOMB II	0	108,452
Transfer from title IX		118,466
AUR unit cost growth		-10,014
10 RAM	0	106,765
Transfer from title IX		106,765
12 HELLFIRE	0	1,525
Transfer from title IX		1,525
15 AERIAL TARGETS	0	144,061
Transfer from title IX		145,880
BQM-177A unit cost growth		-1,819

580

P-1	Budget Request	Final Bill
16 DRONES AND DECOYS	0	0
Transfer from title IX		20,000
Accelerated acquisition strategy		-20,000
17 OTHER MISSILE SUPPORT	0	3,388
Transfer from title IX		3,388
18 LRASM	0	72,544
Transfer from title IX		143,200
Contract delay		-70,656
19 LCS OTH MISSILE	0	38,137
Transfer from title IX		38,137
20 ESSM	0	102,601
Transfer from title IX		128,059
Production support excess to need		-7,458
AUR unit cost adjustment		-18,000
21 HARPOON MODS	0	23,585
Transfer from title IX		25,447
Harpoon block II+ installation kits unit cost growth		-1,862
22 HARM MODS	0	183,740
Transfer from title IX		183,740
23 STANDARD MISSILE MODS	0	2,500
Transfer from title IX		22,500
Early to need/unjustified component improvement request		-20,000
24 WEAPONS INDUSTRIAL FACILITIES	0	12,006
Transfer from title IX		1,958
Program increase - NIROP facilitization		10,048
25 FLEET SATELLITE COMM FOLLOW-ON	0	63,080
Transfer from title IX		67,380
MUOS upgrade mod kits cost growth		-4,300
27 ORDNANCE SUPPORT EQUIPMENT	0	85,717
Transfer from title IX		109,427
Classified adjustment		-23,710
28 SSTD	0	5,561
Transfer from title IX		5,561
29 MK-48 TORPEDO	0	130,000
Transfer from title IX		114,000
Program increase - additional munitions		16,000
30 ASW TARGETS	0	15,095
Transfer from title IX		15,095

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P-1	Budget Request	Final Bill
31 MK-54 TORPEDO MODS	0	103,860
Transfer from title IX		119,453
HAAWC kits unit cost growth		-15,593
32 MK-48 TORPEDO ADCAP MODS	0	39,508
Transfer from title IX		39,508
33 QUICKSTRIKE MINE	0	5,183
Transfer from title IX		5,183
34 TORPEDO SUPPORT EQUIPMENT	0	68,225
Transfer from title IX		79,028
Prior year carryover		-10,803
35 ASW RANGE SUPPORT	0	3,890
Transfer from title IX		3,890
36 FIRST DESTINATION TRANSPORTATION	0	3,803
Transfer from title IX		3,803
37 SMALL ARMS AND WEAPONS	0	13,607
Transfer from title IX		14,797
CSASS previously funded		-1,190
38 CIWS MODS	0	44,126
Transfer from title IX		44,126
39 COAST GUARD WEAPONS	0	43,927
Transfer from title IX		44,980
ILS unjustified growth		-1,053
40 GUN MOUNT MODS	0	62,579
Transfer from title IX		66,376
Medium caliber gun mounts unjustified growth		-1,127
MK-38 unjustified growth		-2,670
41 LCS MODULE WEAPONS	0	10,998
Transfer from title IX		14,585
AURs early to need		-3,587
43 AIRBORNE MINE NEUTRALIZATION SYSTEMS	0	7,160
Transfer from title IX		7,160
45 SPARES AND REPAIR PARTS	0	117,838
Transfer from title IX		126,138
Prior year carryover		-8,300
UNDISTRIBUTED INCREASE - ESB		7,500

(58E)

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

The agreement provides \$843,401,000 for Procurement of Ammunition, Navy and Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~ Insert 54A-D

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMO, NAVY & MARINE CORPS		
1	PROC AMMO, NAVY NAVY AMMUNITION GENERAL PURPOSE BOMBS.....	19,521
2	JDAM.....	62,978
3	AIRBORNE ROCKETS, ALL TYPES.....	23,922
4	MACHINE GUN AMMUNITION.....	4,793
5	PRACTICE BOMBS.....	31,036
6	CARTRIDGES & CART ACTUATED DEVICES.....	37,860
7	AIR EXPENDABLE COUNTERMEASURES.....	70,099
8	JATOS.....	7,262
9	5 INCH/54 GUN AMMUNITION.....	19,161
10	INTERMEDIATE CALIBER GUN AMMUNITION.....	37,193
11	OTHER SHIP GUN AMMUNITION.....	33,066
12	SMALL ARMS & LANDING PARTY AMMO.....	47,896
13	PYROTECHNIC AND DEMOLITION.....	10,621
15	AMMUNITION LESS THAN \$5 MILLION.....	1,061
	-----	-----
	TOTAL, PROC AMMO, NAVY.....	406,469

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
16		
PROC AMMO, MARINE CORPS MARINE CORPS AMMUNITION MORTARS.....	---	55,543
17		
DIRECT SUPPORT MUNITIONS.....	---	100,906
18		
INFANTRY WEAPONS AMMUNITION.....	---	52,088
19		
COMBAT SUPPORT MUNITIONS.....	---	33,995
20		
AMMO MODERNIZATION.....	---	14,325
21		
ARTILLERY MUNITIONS.....	---	175,554
22		
ITEMS LESS THAN \$5 MILLION.....	---	4,521
TOTAL, PROC AMMO, MARINE CORPS.....	---	436,932
TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS.....	---	843,401
	=====	=====

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
1 GENERAL PURPOSE BOMBS	0	19,521
Transfer from title IX		36,028
Q2192 BLU-110 unit cost growth		-1,031
Q2032 FMU-139 electrical fuze contract award delays		-15,476
2 JDAM	0	62,978
Transfer from title IX		70,413
JDAM tail kit unit cost growth		-7,435
3 AIRBORNE ROCKETS, ALL TYPES	0	23,922
Transfer from title IX		31,756
MK-66 rocket motor unit cost growth		-4,072
LAU-68 contract award delays		-3,762
4 MACHINE GUN AMMUNITION	0	4,793
Transfer from title IX		4,793
5 PRACTICE BOMBS	0	31,036
Transfer from title IX		34,708
Q1300 LGTR unit cost growth		-3,672
6 CARTRIDGES & CART ACTUATED DEVICES	0	37,860
Transfer from title IX		45,738
Thermal battery contract delay		-987
MK122 schedule delays		-5,365
MK123 schedule delays		-567
MK124 schedule delays		-959
7 AIR EXPENDABLE COUNTERMEASURES	0	70,099
Transfer from title IX		77,301
ALE-55 unit cost growth		-3,412
MJU-67 unit cost savings		-3,790
8 JATOS	0	7,262
Transfer from title IX		7,262
9 5 INCH/54 GUN AMMUNITION	0	19,161
Transfer from title IX		22,594
MK187 contract delay		-3,433
10 INTERMEDIATE CALIBER GUN AMMUNITION	0	37,193
Transfer from title IX		37,193
11 OTHER SHIP GUN AMMUNITION	0	33,066
Transfer from title IX		39,491
CART 20MM dummy contract award delay		-425
CART 20MM MK244 ELC contract award delay		-6,000

(590)

P-1	Budget Request	Final Bill
12 SMALL ARMS & LANDING PARTY AMMO	0	47,896
Transfer from title IX		47,896
13 PYROTECHNIC AND DEMOLITION	0	10,621
Transfer from title IX		10,621
15 AMMUNITION LESS THAN \$5 MILLION	0	1,061
Transfer from title IX		2,386
MK-58 marine location markers contract award delay		-1,325
16 MORTARS	0	55,543
Transfer from title IX		55,543
17 DIRECT SUPPORT MUNITIONS	0	100,906
Transfer from title IX		131,765
CZ11 multipurpose round insufficient budget justification		-30,053
CA30 complete round unit cost discrepancy		-806
18 INFANTRY WEAPONS AMMUNITION	0	52,088
Transfer from title IX		78,056
Marine Corps identified excess to need		-25,968
19 COMBAT SUPPORT MUNITIONS	0	33,995
Transfer from title IX		40,048
MK913 LAP unit cost growth		-907
MK913 COMP C-4 unit cost growth		-4,540
Hand grenade production engineering excess growth		-606
20 AMMO MODERNIZATION	0	14,325
Transfer from title IX		14,325
21 ARTILLERY MUNITIONS	0	175,554
Transfer from title IX		188,876
DA54 explosive fill IMX 104 contract award delay		-380
DA54 wooden pallets contract award delay		-442
DA54 explosive fill IMX 101 contract award delay		-4,000
DA54 M795 IM metal part contract award delay		-6,000
NA29 unit cost growth		-2,500
22 ITEMS LESS THAN \$5 MILLION	0	4,521
Transfer from title IX		4,521

(59D)

SHIPBUILDING AND CONVERSION, NAVY

The agreement provides \$23,975,378,000 for Shipbuilding and Conversion, Navy,
as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert GWA-D

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

SHIPBUILDING & CONVERSION, NAVY		
FLEET BALLISTIC MISSILE SHIPS		
1	OHIO REPLACEMENT SUBMARINE (AP-CY).....	1,698,907 1,820,927
OTHER WARSHIPS		
2	CARRIER REPLACEMENT PROGRAM (CVN 80).....	2,347,000 1,062,000
	XX CARRIER REPLACEMENT PROGRAM (CVN 81).....	--- 1,214,500
3	VIRGINIA CLASS SUBMARINE.....	7,155,946 5,365,181
4	VIRGINIA CLASS SUBMARINE (AP-CY).....	2,769,552 2,969,552
5	CVN REFUELING OVERHAUL.....	647,926 634,626
6	CVN REFUELING OVERHAULS (AP-CY).....	--- 16,900
7	DDG 1000.....	155,944 155,944
8	DDG-51.....	5,099,295 5,065,295
9	DDG-51 (AP-CY).....	224,028 744,028
11	FFG-FRIGATE.....	1,281,177 1,281,177
	TOTAL, OTHER WARSHIPS.....	----- 19,680,868 18,509,203
AMPHIBIOUS SHIPS		
12	LPD FLIGHT II.....	--- 524,100
13	LPD FLIGHT II (AP).....	247,100 ---
15	LH REPLACEMENT.....	--- 650,000
17	EXPEDITIONARY FAST TRANSPORT.....	--- 261,000
	TOTAL, AMPHIBIOUS SHIPS.....	----- 247,100 1,435,100

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

18	AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM COSTS	
	TAO FLEET OILER	981,215
19	TAO FLEET OILER (AP-CY).....	73,000
20	TOWING, SALVAGE, AND RESCUE SHIP (ATS).....	150,282
22	LCU 1700.....	85,670
23	OUTFITTING.....	754,679
24	SHIP TO SHORE CONNECTOR.....	---
25	SERVICE CRAFT.....	56,289
28	COMPLETION OF PY SHIPBUILDING PROGRAMS.....	55,700
		104,700
	TOTAL, AUXILIARIES, CRAFT, AND PRIOR-YEAR PROGRAM...	2,156,835
		2,210,148
	TOTAL, SHIPBUILDING & CONVERSION, NAVY.....	23,783,710
		23,975,378
		=====

60B

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 OHIO REPLACEMENT SUBMARINE (AP-CY)	1,698,907	1,820,927
Shipyard manufactured items continuous production early to need		-980
Program increase - submarine industrial base expansion		123,000
2 CARRIER REPLACEMENT PROGRAM (CVN 80)	2,347,000	1,062,000
CVN-81 only - transfer to line 2x		-1,285,000
2x CARRIER REPLACEMENT PROGRAM (CVN 81)	0	1,214,500
CVN-81 only - transfer from line 2		1,285,000
Excess prior year carryover		-70,500
3 VIRGINIA CLASS SUBMARINE	7,155,946	5,365,181
SSN-812 early to need		-1,390,765
Transfer from SSN-812 to SSN-804 and SSN-805 full funding with Virginia Payload Modules per revised multi-year procurement contract cost estimate		-1,409,235
Transfer from SSN-812 to SSN-804 and SSN-805 per revised multi-year procurement contract cost estimate, including Virginia Payload Modules		1,409,235
Transfer from SSN-812 to SCN line 4 in support of 10th multi-year procurement contract option ship only		-200,000
Transfer from SSN-812 to RDTE,N line 132 for design risk reduction		-100,000
Transfer from SSN-812 to RDTE,N line 132 for future capability development		-100,000
4 VIRGINIA CLASS SUBMARINE (AP-CY)	2,769,552	2,969,552
Transfer SSN-812 from SCN line 3 in support of 10th multi-year procurement contract option ship only		200,000
5 CVN REFUELING OVERHAULS	647,926	634,626
Transfer to line 6 only for CVN 75 RCOH		-16,900
Temporary systems unjustified request		-16,400
Program increase - operator ballistic protection for crew served weapons stations		20,000
6 CVN REFUELING OVERHAULS (AP-CY)	0	16,900
Transfer from line 5 only for CVN 75 RCOH		16,900
8 DDG-51	5,099,295	5,065,295
Basic construction excess growth		-24,000
Electronics excess growth		-10,000
9 DDG-51 (AP-CY)	224,028	744,028
Program increase - long lead time material for fiscal year 2021 DDG-51 Flight III ships		390,000
Program increase - surface combatant supplier base		130,000

(600)

P-1	Budget Request	Final Bill
12 LPD FLIGHT II	0	524,100
LPD-31 - transfer from line 13		247,100
Program increase - LPD-31		277,000
13 LPD FLIGHT II (AP-CY)	247,100	0
LPD-31 - transfer to line 12		-247,100
15 LHA REPLACEMENT	0	650,000
Program increase - LHA 9		650,000
17 EXPEDITIONARY FAST TRANSPORT (EPF)	0	261,000
Program increase - additional ship		261,000
22 LCU 1700	85,670	83,670
Other cost excess growth		-2,000
23 OUTFITTING	754,679	695,992
Virginia class outfitting excess growth		-8,958
DDG-51 outfitting excess to need		-5,613
LCS outfitting early to need		-2,607
Virginia class post-delivery early to need		-1,258
CVN-79 outfitting early to need		-37,539
T-AO outfitting early to need		-2,712
24 SHIP TO SHORE CONNECTOR	0	65,000
Program increase - one additional SSC		65,000
28 COMPLETION OF PY SHIPBUILDING PROGRAMS	55,700	104,700
Program increase - EPF-14 expeditionary medical transport conversion		49,000

(60D)

FFG(X) FRIGATE PROGRAM

There remain concerns with the dependence of the Department of the Navy to source surface ship components from foreign industry partners rather than promote a robust domestic industrial base. The agreement amends a legislative provision included in H.R. 2740 to allow the Secretary of the Navy to procure certain components for the FFG(X) Frigate program from non-United States suppliers with the direction that United States manufactured propulsion engines and propulsion reduction gears must be incorporated into the program not later than with the eleventh ship of the Frigate class.

Furthermore, the Secretary of the Navy is directed to conduct a study on the impacts of incorporating United States manufactured propulsion engines and propulsion reduction gears into the FFG(X) Frigate program prior to the eleventh ship, and to submit the study to the congressional defense committees not later than 180 days after the contract award of the FFG(X) Frigate. The study shall include estimates of potential changes to the acquisition schedule and any associated costs with incorporating domestically produced propulsion equipment into the FFG(X) Frigate program with the fourth, sixth, eighth, tenth, and eleventh ship of the program.

Additionally, the Secretary of the Navy is encouraged to support a robust domestic industrial base with more stringent contract requirements in future surface ship classes.

OTHER PROCUREMENT, NAVY

The agreement provides \$10,075,257,000 for Other Procurement, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ *e*

~~(INSERT PROJECT LEVEL TABLE)~~ *Insert 62A-M*

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

OTHER PROCUREMENT, NAVY		
1	SHIPS SUPPORT EQUIPMENT SHIP PROPULSION EQUIPMENT SURFACE POWER EQUIPMENT.....	14,490 14,490
2	GENERATORS SURFACE COMBATANT HM&E.....	31,583 66,561
3	NAVIGATION EQUIPMENT OTHER NAVIGATION EQUIPMENT.....	77,404 72,744
4	PERISCOPES SUB PERISCOPES AND IMAGING SUPPORT EQUIPMENT PROGRAM..	160,803 160,803
5	OTHER SHIPBOARD EQUIPMENT DDG MOD.....	566,140 564,966
6	FIREFIGHTING EQUIPMENT.....	18,223 17,547
7	COMMAND AND CONTROL SWITCHBOARD.....	2,086 2,086
8	LHA/LHD MIDLIFE.....	95,651 79,563
9	POLLUTION CONTROL EQUIPMENT.....	23,910 21,820
10	SUBMARINE SUPPORT EQUIPMENT.....	44,895 44,895
11	VIRGINIA CLASS SUPPORT EQUIPMENT.....	28,465 28,465
12	LCS CLASS SUPPORT EQUIPMENT.....	19,426 23,426
13	SUBMARINE BATTERIES.....	26,290 22,690
14	LPD CLASS SUPPORT EQUIPMENT.....	46,945 46,945
15	DOG-1000 SUPPORT EQUIPMENT.....	9,930 8,530
16	STRATEGIC PLATFORM SUPPORT EQUIP.....	14,331 14,331
17	DSSP EQUIPMENT.....	2,909 2,909
18	CRUISER MODERNIZATION.....	193,990 193,990
19	LCAC.....	3,392 3,392
20	UNDERWATER EOD PROGRAMS.....	71,240 71,240
21	ITEMS LESS THAN \$5 MILLION.....	102,543 87,857

62A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
22	CHEMICAL WARFARE DETECTORS.....	2,961 2,961
23	SUBMARINE LIFE SUPPORT SYSTEM.....	6,635 6,635
23x	SHIP MAINTENANCE, REPAIR AND MODERNIZATION.....	--- 1,000,000
24	REACTOR PLANT EQUIPMENT REACTOR POWER UNITS.....	5,340 5,340
25	REACTOR COMPONENTS.....	465,726 452,692
26	OCEAN ENGINEERING DIVING AND SALVAGE EQUIPMENT.....	11,854 11,854
27	SMALL BOATS STANDARD BOATS.....	79,102 67,102
28	PRODUCTION FACILITIES EQUIPMENT OPERATING FORCES IPE.....	202,238 202,238
29	OTHER SHIP SUPPORT LCS COMMON MISSION MODULES EQUIPMENT.....	51,553 38,730
30	LCS MCM MISSION MODULES.....	197,129 64,789
31	LCS ASW MISSION MODULES.....	27,754 24,617
32	LCS SUW MISSION MODULES.....	26,566 14,598
33	LCS IN-SERVICE MODERNIZATION.....	84,972 85,714
34	LOGISTICS SUPPORT SMALL & MEDIUM UUV.....	40,547 25,601
35	LSD MIDLIFE AND MODERNIZATION.....	40,269 40,269
	SUBTOTAL.....	40,269 40,269
	TOTAL, SHIPS SUPPORT EQUIPMENT.....	2,797,292 3,592,390
	COMMUNICATIONS AND ELECTRONICS EQUIPMENT	
36	SHIP SONARS SPQ-9B RADAR.....	26,195 21,664
37	AN/SQQ-89 SURF ASW COMBAT SYSTEM.....	125,237 121,966
38	SSN ACOUSTICS EQUIPMENT.....	366,968 367,620
39	UNDERSEA WARFARE SUPPORT EQUIPMENT.....	8,967 8,967

62B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
40	ASW ELECTRONIC EQUIPMENT SUBMARINE ACOUSTIC WARFARE SYSTEM.....	23,545 22,331
41	SSTD.....	12,439 12,439
42	FIXED SURVEILLANCE SYSTEM.....	128,441 128,441
43	SURTASS.....	21,923 21,923
44	ELECTRONIC WARFARE EQUIPMENT AN/SLQ-32.....	420,154 340,706
45	RECONNAISSANCE EQUIPMENT SHIPBOARD IW EXPLOIT.....	194,758 188,486
46	AUTOMATED IDENTIFICATION SYSTEM (AIS).....	5,368 5,368
47	OTHER SHIP ELECTRONIC EQUIPMENT COOPERATIVE ENGAGEMENT CAPABILITY.....	35,128 30,452
48	NAVAL TACTICAL COMMAND SUPPORT SYSTEM (NTCSS).....	15,154 15,154
49	ATDLS.....	52,753 52,753
50	NAVY COMMAND AND CONTROL SYSTEM (NCCS).....	3,390 3,390
51	MINESWEEPING SYSTEM REPLACEMENT.....	19,448 19,448
52	SHALLOW WATER MCM.....	8,730 8,730
53	NAVSTAR GPS RECEIVERS (SPACE).....	32,674 23,294
54	ARMED FORCES RADIO AND TV.....	2,617 2,617
55	STRATEGIC PLATFORM SUPPORT EQUIP.....	7,973 7,973
56	AVIATION ELECTRONIC EQUIPMENT ASHORE ATC EQUIPMENT.....	72,406 71,037
57	AFLOAT ATC EQUIPMENT.....	67,410 63,279
58	ID SYSTEMS.....	26,059 25,506
59	JOINT PRECISION APPROACH AND LANDING SYSTEM.....	92,695 85,445
60	NAVAL MISSION PLANNING SYSTEMS.....	15,296 15,296

62C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
61	OTHER SHORE ELECTRONIC EQUIPMENT TACTICAL/MOBILE C41 SYSTEMS.....	36,226 33,419
62	DCGS-N.....	21,788 18,677
63	CANES.....	426,654 409,571
64	RADIAC.....	6,450 6,450
65	CANES-INTELL.....	52,713 52,713
66	GPETE.....	13,028 12,214
67	MASF.....	5,193 5,193
68	INTEG COMBAT SYSTEM TEST FACILITY.....	6,028 6,028
69	EMI CONTROL INSTRUMENTATION.....	4,209 4,209
70	ITEMS LESS THAN \$5 MILLION.....	168,436 153,334
71	SHIPBOARD COMMUNICATIONS SHIPBOARD TACTICAL COMMUNICATIONS.....	55,853 47,811
72	SHIP COMMUNICATIONS AUTOMATION.....	137,861 128,728
73	COMMUNICATIONS ITEMS UNDER \$5M.....	35,093 29,486
74	SUBMARINE COMMUNICATIONS SUBMARINE BROADCAST SUPPORT.....	50,833 50,833
75	SUBMARINE COMMUNICATION EQUIPMENT.....	69,643 60,794
76	SATELLITE COMMUNICATIONS SATELLITE COMMUNICATIONS SYSTEMS.....	45,841 45,084
77	NAVY MULTIBAND TERMINAL (NMT).....	88,021 76,715
78	SHORE COMMUNICATIONS JCS COMMUNICATIONS EQUIPMENT.....	4,293 4,293
79	CRYPTOGRAPHIC EQUIPMENT INFO SYSTEMS SECURITY PROGRAM (ISSP).....	166,540 166,540
80	MIO INTEL EXPLOITATION TEAM.....	968 968
81	CRYPTOLOGIC EQUIPMENT CRYPTOLOGIC COMMUNICATIONS EQUIP.....	13,090 13,090
83	OTHER ELECTRONIC SUPPORT COAST GUARD EQUIPMENT.....	61,370 61,370
	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	3,255,859 3,051,805

62D

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

AVIATION SUPPORT EQUIPMENT		
SONOBUOYS		
85	SONOBUOYS - ALL TYPES.....	260,644 310,644
AIRCRAFT SUPPORT EQUIPMENT		
86	MINOTAUR.....	5,000 5,000
87	WEAPONS RANGE SUPPORT EQUIPMENT.....	101,843 101,843
88	AIRCRAFT SUPPORT EQUIPMENT.....	145,601 135,211
89	ADVANCED ARRESTING GEAR (AAG).....	4,725 4,725
90	METEOROLOGICAL EQUIPMENT.....	14,687 12,407
92	AIRBORNE MINE COUNTERMEASURES.....	19,250 15,998
93	LAMPS EQUIPMENT.....	792 792
94	AVIATION SUPPORT EQUIPMENT.....	55,415 62,389
95	UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL.....	32,668 17,568

	TOTAL, AVIATION SUPPORT EQUIPMENT.....	640,625 666,577
ORDNANCE SUPPORT EQUIPMENT		
SHIP GUN SYSTEM EQUIPMENT		
96	SHIP GUN SYSTEMS EQUIPMENT.....	5,451 5,451
SHIP MISSILE SYSTEMS EQUIPMENT		
97	HARPOON SUPPORT EQUIPMENT.....	1,100 ---
98	SHIP MISSILE SUPPORT EQUIPMENT.....	228,104 204,826
99	TOMAHAWK SUPPORT EQUIPMENT.....	78,593 59,436
FBM SUPPORT EQUIPMENT		
100	STRATEGIC MISSILE SYSTEMS EQUIP.....	280,510 258,933
ASW SUPPORT EQUIPMENT		
101	SSN COMBAT CONTROL SYSTEMS.....	148,547 143,678
102	ASW SUPPORT EQUIPMENT.....	21,130 18,181
OTHER ORDNANCE SUPPORT EQUIPMENT		
103	EXPLOSIVE ORDNANCE DISPOSAL EQUIP.....	15,244 15,244
104	ITEMS LESS THAN \$5 MILLION.....	5,071 5,071
OTHER EXPENDABLE ORDNANCE		
105	ANTI-SHIP MISSILE DECOY SYSTEM.....	41,962 41,962
106	SUBMARINE TRAINING DEVICE MODS.....	75,057 67,229
107	SURFACE TRAINING EQUIPMENT.....	233,175 222,647

	TOTAL, ORDNANCE SUPPORT EQUIPMENT.....	1,133,944 1,042,658

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
108	CIVIL ENGINEERING SUPPORT EQUIPMENT PASSENGER CARRYING VEHICLES.....	4,562 4,562
109	GENERAL PURPOSE TRUCKS.....	10,974 9,474
110	CONSTRUCTION & MAINTENANCE EQUIP.....	43,191 43,191
111	FIRE FIGHTING EQUIPMENT.....	21,142 11,376
112	TACTICAL VEHICLES.....	33,432 32,004
114	POLLUTION CONTROL EQUIPMENT.....	2,633 2,633
115	ITEMS UNDER \$5 MILLION.....	53,467 53,467
116	PHYSICAL SECURITY VEHICLES.....	1,173 1,173
	TOTAL, CIVIL ENGINEERING SUPPORT EQUIPMENT.....	170,574 157,880
117	SUPPLY SUPPORT EQUIPMENT SUPPLY EQUIPMENT.....	16,730 16,730
118	FIRST DESTINATION TRANSPORTATION.....	5,389 5,389
119	SPECIAL PURPOSE SUPPLY SYSTEMS.....	654,674 617,522
	TOTAL, SUPPLY SUPPORT EQUIPMENT.....	676,793 639,641

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

PERSONNEL AND COMMAND SUPPORT EQUIPMENT		
TRAINING DEVICES		
120	TRAINING SUPPORT EQUIPMENT.....	3,633 3,633
121	TRAINING AND EDUCATION EQUIPMENT.....	97,636 87,471
COMMAND SUPPORT EQUIPMENT		
122	COMMAND SUPPORT EQUIPMENT.....	66,102 56,102
123	MEDICAL SUPPORT EQUIPMENT.....	3,633 10,633
125	NAVAL MIP SUPPORT EQUIPMENT.....	6,097 6,097
126	OPERATING FORCES SUPPORT EQUIPMENT.....	16,905 16,905
127	C4ISR EQUIPMENT.....	30,146 25,831
128	ENVIRONMENTAL SUPPORT EQUIPMENT.....	21,986 21,986
129	PHYSICAL SECURITY EQUIPMENT.....	160,046 160,046
130	ENTERPRISE INFORMATION TECHNOLOGY.....	56,899 54,833
133	NEXT GENERATION ENTERPRISE SERVICE.....	122,832 122,832
	TOTAL, PERSONNEL AND COMMAND SUPPORT EQUIPMENT.....	585,915 566,369
134	SPARES AND REPAIR PARTS.....	375,608 341,591
	CLASSIFIED PROGRAMS.....	16,346 16,346
	TOTAL, OTHER PROCUREMENT, NAVY.....	9,652,956 10,075,257
	=====	=====

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
2 SURFACE COMBATANT HM&E	31,583	66,561
Twisted rudder installation early to need		-22
Program increase - hybrid electric drive		35,000
3 OTHER NAVIGATION EQUIPMENT	77,404	72,744
Surface Navy ECDIS hardware B kit contract award and installation delay		-4,660
5 DDG MOD	566,140	564,966
Aegis modernization testing excess to need		-5,000
Combat system ship qualification trials excess to need		-9,000
DDG modernization HME (MCS/DCS) installation excess growth		-1,174
Program increase - integrated training and maintenance support system		9,000
Program increase - water purification systems		5,000
6 FIREFIGHTING EQUIPMENT	18,223	17,547
SOPV replacement installation cost growth		-676
8 LHA/LHD MIDLIFE	95,651	79,563
Conjunctive alterations unjustified growth		-5,819
Machinery control system NRE early to need		-10,269
9 POLLUTION CONTROL EQUIPMENT	23,910	21,820
OPA improvements unit cost growth		-2,090
12 LCS CLASS SUPPORT EQUIPMENT	19,426	23,426
Program increase - water purification systems		4,000
13 SUBMARINE BATTERIES	26,290	22,690
Battery installation test equipment previously funded		-1,000
ABMS tech refresh previously funded		-900
Unit cost growth		-1,700
15 DDG-1000 SUPPORT EQUIPMENT	9,930	8,530
Maritime strike tomahawk integration ahead of need		-1,400
21 ITEMS LESS THAN \$5 MILLION	102,543	87,857
MCRRS contract award delays		-1,818
Machinery plant upgrades early to need		-6,898
Machinery plant upgrades installation early to need		-5,970
23x SHIP MAINTENANCE, REPAIR AND MODERNIZATION	0	1,000,000
Pacific Fleet ship maintenance pilot program - transfer from OM,N line 1B4B		1,000,000

(624)

P-1	Budget Request	Final Bill
25 REACTOR COMPONENTS	465,726	452,692
Program decrease - unit cost growth		-2,977
Program decrease - unit cost growth		-2,656
Program decrease - unit cost growth		-1,297
Program decrease - unjustified request in field change procurement		-6,104
27 STANDARD BOATS	79,102	67,102
CRF boat simulators unjustified request		-12,000
29 LCS COMMON MISSION MODULES EQUIPMENT	51,553	38,730
CMPT MPTS tech modernization unjustified growth		-1,931
EMM/ANSQS-62 training equipment unjustified request		-3,692
Mission bay training devices - ASW unjustified request		-7,200
30 LCS MCM MISSION MODULES	197,129	64,789
Knifefish excess to need		-28,640
Unmanned surface vehicles excess to need		-88,966
Navy requested transfer to RDTE,N line 75		-14,734
31 LCS ASW MISSION MODULES	27,754	24,617
Variable depth sonar unit cost growth		-3,137
32 LCS SUW MISSION MODULES	26,566	14,598
Surface-to-surface missile module excess to need		-11,968
33 LCS IN-SERVICE MODERNIZATION	84,972	85,714
Habitability mod (Freedom variant) unit cost growth		-2,972
LCS modernization (Independence variant) installation cost growth		-3,286
Program increase - modernization of combat and communication systems and installation acceleration		7,000
34 SMALL & MEDIUM UUV	40,547	25,601
Knifefish excess to need		-14,946
36 SPQ-9B RADAR	26,195	21,664
AN/SPQ-9B radar FMP kits prior year carryover		-4,531
37 AN/SQQ-89 SURF ASW COMBAT SYSTEM	125,237	121,966
AN/SQQ-89A(V)15 kits and technology insertion cost growth		-1,880
AN/SQQ-89A(V)15 kits technology insertion installation cost growth		-1,391
38 SSN ACOUSTICS EQUIPMENT	366,968	367,620
Towed array refurbishment and upgrades failure to comply with congressionally directed reduction		-2,348
Low cost conformal array kits contract delays		-5,000
Program increase		8,000
40 SUBMARINE ACOUSTIC WARFARE SYSTEM	23,545	22,331
CSA MK3 engineering changes excess growth		-1,214

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P-1	Budget Request	Final Bill
44 AN/SLQ-32	420,154	340,706
SEWIP block 1B2 for USCG ship forward fit contract delays		-1,410
FMP block 1B3 for SLQ-32(V)6 previously funded		-2,467
Block 2 electronic support systems installation cost growth		-1,961
Block 3 kit early to need		-65,758
Solid state product support integrator funding ahead of need		-1,778
Block 3 multi-purpose reconfigurable training systems ahead of need		-1,410
Block 1B3 installations previously funded		-2,300
Block 3 installation funding ahead of need		-2,364
45 SHIPBOARD IW EXPLOIT	194,758	188,486
SSEE modifications kits unit cost growth		-1,472
SSEE modifications installation previously funded		-4,800
47 COOPERATIVE ENGAGEMENT CAPABILITY	35,128	30,452
Common array block antenna previously funded		-4,676
53 NAVSTAR GPS RECEIVERS (SPACE)	32,674	23,294
GPNTS excess growth		-9,380
56 ASHORE ATC EQUIPMENT	72,406	71,037
MATCALs improvements cost growth		-1,369
57 AFLOAT ATC EQUIPMENT	67,410	63,279
ACLS mod kits installation cost growth		-1,631
AN/SPN-50(V)1 excess support costs		-2,500
58 ID SYSTEMS	26,059	25,506
AN/UPX 24(V) mode S production engineering previously funded		-553
59 JOINT PRECISION APPROACH AND LANDING SYSTEM	92,695	85,445
Excess growth		-7,250
61 TACTICAL/MOBILE C41 SYSTEMS	36,226	33,419
DJC2 increment 1 system enhancements unit cost growth		-2,807
62 DCGS-N	21,788	18,677
DCGS-N increment 2 kit unit cost discrepancy		-361
Installation funding ahead of need		-2,750
63 CANES	426,654	409,571
CANES afloat technical insertion installation cost growth		-3,885
CANES ashore installation previously funded		-2,698
Installations previously funded		-10,500
66 GPETE	13,028	12,214
Engineering and documentation unjustified growth		-814
70 ITEMS LESS THAN \$5 MILLION	168,436	153,334
Next generation surface search radar kits unit cost growth		-2,462
Next generation surface search radar installation early to need		-12,640

(625)

P-1	Budget Request	Final Bill
71 SHIPBOARD TACTICAL COMMUNICATIONS	55,853	47,811
MR MUOS upgrade kits installation cost growth		-2,242
Prior year carryover		-5,800
72 SHIP COMMUNICATIONS AUTOMATION	137,861	128,728
STACC equipment unit cost growth		-6,400
STACC installation cost growth		-2,733
73 COMMUNICATIONS ITEMS UNDER \$5M	35,093	29,486
Navy expeditionary C4I procurement unjustified growth		-3,242
BFTN failure to comply with fiscal year 2019 congressional direction		-963
BFTN DSA failure to comply with fiscal year 2019 congressional direction		-1,402
75 SUBMARINE COMMUNICATION EQUIPMENT	69,643	60,794
Buoy shape improvements unjustified request		-8,849
76 SATELLITE COMMUNICATIONS SYSTEMS	45,841	45,084
GBS afloat receive terminal DSA previously funded		-757
77 NAVY MULTIBAND TERMINAL (NMT)	88,021	76,715
Afloat ship kit contract savings		-5,203
Afloat installation cost excess growth		-2,104
Assured C2 modems installation cost excess growth		-1,818
Ashore kit previously funded		-2,181
85 SONOBUOYS - ALL TYPES	260,644	310,644
Program increase		50,000
88 AIRCRAFT SUPPORT EQUIPMENT	145,601	135,211
Transformer rectifier procurement early to need		-10,390
90 METEOROLOGICAL EQUIPMENT	14,687	12,407
ASOS upgrades unit cost growth		-2,280
92 AIRBORNE MINE COUNTERMEASURES	19,250	15,998
Modifications unjustified growth		-2,920
Prior year contract savings		-332
94 AVIATION SUPPORT EQUIPMENT	55,415	62,389
Portable electronic maintenance aids contract delays		-3,026
Program increase - advanced skills management legacy system upgrades		10,000
95 UMCS-UNMAN CARRIER AVIATION (UCA) MISSION CONTROL	32,668	17,568
Funding ahead of need		-15,100
97 HARPOON SUPPORT EQUIPMENT	1,100	0
Unjustified request		-1,100

(62K)

P-1	Budget Request	Final Bill
98 SHIP MISSILE SUPPORT EQUIPMENT	228,104	204,826
I-stalker kits unit cost growth		-1,460
Ship self defense system combat system ship qualification trial unjustified growth		-5,002
SPY radar refurbishment previously funded		-7,078
Nulka decoys unit cost growth		-3,500
SSDS COTS conversion kits budget request discrepancy		-6,238
99 TOMAHAWK SUPPORT EQUIPMENT	78,593	59,436
TMPC 7.0 funding ahead of need		-19,157
100 STRATEGIC MISSILE SYSTEMS EQUIP	280,510	258,933
Flight test instrumentation refresh unjustified growth		-10,199
Navigation SSI increment 8 engineering and test unjustified growth		-6,636
SSI increment 15 previously funded		-4,742
101 SSN COMBAT CONTROL SYSTEMS	148,547	143,678
Weapons launch systems tech insertion excess growth		-4,869
102 ASW SUPPORT EQUIPMENT	21,130	18,181
High speed maneuverable surface target contract award delay		-2,949
106 SUBMARINE TRAINING DEVICE MODS	75,057	67,229
VA SMMTT new normal software mods unjustified growth		-8,871
SMMTT PH III mods kit cost growth		-3,957
Program increase - integrated training and maintenance support system		5,000
107 SURFACE TRAINING EQUIPMENT	233,175	222,647
LCS integrated tactics trainer modernization funding ahead of need		-6,133
BFFT ship sets installation excess funding		-1,515
BFFT upgrade kits installation funding ahead of need		-2,880
109 GENERAL PURPOSE TRUCKS	10,974	9,474
Prior year carryover		-1,500
111 FIRE FIGHTING EQUIPMENT	21,142	11,376
Hazardous response vehicle - medium contract award delays		-4,868
Truck fire fighting brush/grass contract award delays		-622
Truck fire structural pumper contract award delays		-3,193
Truck fire fighting agent resupplier water contract award delays		-1,083
112 TACTICAL VEHICLES	33,432	32,004
JLTV contract award delay		-1,428
119 SPECIAL PURPOSE SUPPLY SYSTEMS	654,674	617,522
Classified adjustment		-37,152
121 TRAINING AND EDUCATION EQUIPMENT	97,636	87,471
Prior year underexecution		-6,885
A2AD training equipment unit cost growth		-180
Fleet training wholeness excess growth		-3,100

(624)

P-1	Budget Request	Final Bill
122 COMMAND SUPPORT EQUIPMENT Fleet Forces Command equipment excess growth	66,102	56,102 -10,000
123 MEDICAL SUPPORT EQUIPMENT Program increase - expeditionary medical facilities	3,633	10,633 7,000
127 C4ISR EQUIPMENT Deployable mission support systems kits schedule delays	30,146	25,831 -4,315
130 ENTERPRISE INFORMATION TECHNOLOGY MILCON outfitting costs unjustified growth	56,899	54,833 -2,066
134 SPARES AND REPAIR PARTS Excess program growth	375,608	341,591 -34,017

(62M)

PROCUREMENT, MARINE CORPS

The agreement provides \$2,898,422,000 for Procurement, Marine Corps, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

insert table

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT, MARINE CORPS		
WEAPONS AND COMBAT VEHICLES		
TRACKED COMBAT VEHICLES		
1	AAV7A1 PIP.....	39,495 39,495
2	AMPHIBIOUS COMBAT VEHICLE 1.1.....	317,935 300,935
3	LAV PIP.....	60,734 60,734
ARTILLERY AND OTHER WEAPONS		
4	155MM LIGHTWEIGHT TOWED HOWITZER.....	25,065 25,065
5	ARTILLERY WEAPONS SYSTEM.....	100,002 95,686
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION.....	31,945 31,945
OTHER SUPPORT		
7	MODIFICATION KITS.....	22,760 22,760
	TOTAL, WEAPONS AND COMBAT VEHICLES.....	597,936 576,620

GUIDED MISSILES AND EQUIPMENT		
GUIDED MISSILES		
8	GROUND BASED AIR DEFENSE.....	175,998 147,606
9	JAVELIN.....	20,207 20,207
10	FOLLOW ON TO SMAW/FOAAWS.....	21,913 21,913
11	ANTI-ARMOR WEAPONS SYSTEM-HEAVY (AAWS-H)/TOW.....	60,501 60,501
12	GUIDED MLRS ROCKET (GMLRS).....	29,062 27,846
	TOTAL, GUIDED MISSILES AND EQUIPMENT.....	307,681 278,073

63A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
COMMUNICATIONS AND ELECTRONICS EQUIPMENT		
COMMAND AND CONTROL SYSTEMS		
13	COMMON AVIATION COMMAND AND CONTROL SYS.....	37,203 30,812
REPAIR AND TEST EQUIPMENT		
14	REPAIR AND TEST EQUIPMENT.....	55,156 55,156
15	MODIFICATION KITS.....	4,945 4,945
OTHER SUPPORT (TEL)		
COMMAND AND CONTROL		
16	ITEMS UNDER \$5 MILLION (COMM & ELEC).....	112,124 80,349
17	AIR OPERATIONS C2 SYSTEMS.....	17,408 17,408
RADAR + EQUIPMENT (NON-TEL)		
18	RADAR SYSTEMS.....	329 329
19	GROUND/AIR TASK ORIENTED RADAR.....	273,022 273,022
INTELL/COMM EQUIPMENT (NON-TEL)		
21	GCSS-MC.....	4,484 4,484
22	FIRE SUPPORT SYSTEM.....	35,488 35,488
23	INTELLIGENCE SUPPORT EQUIPMENT.....	56,896 56,896
25	UNMANNED AIR SYSTEMS (INTEL).....	34,711 28,036
26	DCGS-MC.....	32,562 32,562
OTHER SUPPORT (NON-TEL)		
30	NEXT GENERATION ENTERPRISE NETWORK (NGEN).....	114,901 95,003
31	COMMON COMPUTER RESOURCES.....	51,094 51,094
32	COMMAND POST SYSTEMS.....	108,897 80,897
33	RADIO SYSTEMS.....	227,320 213,218
34	COMM SWITCHING & CONTROL SYSTEMS.....	31,685 23,781
35	COMM & ELEC INFRASTRUCTURE SUPPORT.....	21,140 21,140
36	CYBERSPACE ACTIVITIES.....	27,632 27,632

	TOTAL, COMMUNICATIONS AND ELECTRONICS EQUIPMENT.....	1,246,997 1,132,252
SUPPORT VEHICLES		
ADMINISTRATIVE VEHICLES		
37	COMMERCIAL CARGO VEHICLES.....	28,913 28,913

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
38	TACTICAL VEHICLES MOTOR TRANSPORT MODIFICATIONS.....	19,234 19,234
39	JOINT LIGHT TACTICAL VEHICLE.....	558,107 555,648
40	FAMILY OF TACTICAL TRAILERS.....	2,693 2,693
	TOTAL, SUPPORT VEHICLES.....	608,947 606,488
41	ENGINEER AND OTHER EQUIPMENT ENGINEER AND OTHER EQUIPMENT ENVIRONMENTAL CONTROL EQUIP ASSORT.....	495 495
42	TACTICAL FUEL SYSTEMS.....	52 52
43	POWER EQUIPMENT ASSORTED.....	22,441 22,441
44	AMPHIBIOUS SUPPORT EQUIPMENT.....	7,101 7,101
45	EOD SYSTEMS.....	44,700 44,700
46	MATERIALS HANDLING EQUIPMENT PHYSICAL SECURITY EQUIPMENT.....	15,404 15,404
47	GENERAL PROPERTY FIELD MEDICAL EQUIPMENT.....	2,898 2,898
48	TRAINING DEVICES.....	149,567 125,668
49	FAMILY OF CONSTRUCTION EQUIPMENT.....	35,622 35,622
50	FAMILY OF INTERNALLY TRANSPORTABLE VEHICLE (ITV).....	647 647
51	OTHER SUPPORT ITEMS LESS THAN \$5 MILLION.....	10,956 10,956
	TOTAL, ENGINEER AND OTHER EQUIPMENT.....	289,883 265,984
52	SPARES AND REPAIR PARTS.....	33,470 33,470
	CLASSIFIED PROGRAMS.....	5,535 5,535
	TOTAL, PROCUREMENT, MARINE CORPS.....	3,090,449 2,898,422

630

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
2 AMPHIBIOUS COMBAT VEHICLE 1.1	317,935	300,935
Forward financing		-15,000
Unit cost growth		-2,000
5 ARTILLERY WEAPONS SYSTEM	100,002	95,686
Peculiar support equipment previously funded		-4,316
8 GROUND BASED AIR DEFENSE	175,998	147,606
Excess to need		-28,392
12 GUIDED MLRS ROCKET (GMLRS)	29,062	27,846
Unit cost discrepancy		-1,216
13 COMMON AVIATION COMMAND AND CONTROL SYS	37,203	30,812
AN/MRQ-13 communications subsystems upgrades unjustified growth		-6,391
16 ITEMS UNDER \$5 MILLION (COMM & ELEC)	112,124	80,349
Fly-away broadcast system previously funded		-2,075
Maintain level of effort		-29,700
25 UNMANNED AIR SYSTEMS (INTEL)	34,711	28,036
Long range/long endurance cost growth		-2,795
Short range/short endurance cost growth		-2,487
Vertical takeoff and landing system cost growth		-1,393
30 NEXT GENERATION ENTERPRISE NETWORK (NGEN)	114,901	95,003
End user devices tech refresh previously funded		-15,998
Network equipment tech refresh excess growth		-3,900
32 COMMAND POST SYSTEMS	108,897	80,897
NOTM utility task vehicle unjustified request		-28,000
33 RADIO SYSTEMS	227,320	213,218
MCMP unit cost growth		-2,800
TCM ground radios sparing early to need		-4,400
Line of sight system replacements previously funded		-8,902
Program increase - GBS receive suite		2,000
34 COMM SWITCHING & CONTROL SYSTEMS	31,685	23,781
ECP small form factor previously funded		-7,904
39 JOINT LIGHT TACTICAL VEHICLE	558,107	555,648
Engineering change orders previously funded		-2,459
48 TRAINING DEVICES	149,567	125,668
ODS unjustified request		-23,899

63D

AIRCRAFT PROCUREMENT, AIR FORCE

The agreement provides \$17,512,361,000 for Aircraft Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 64A - (7)

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

AIRCRAFT PROCUREMENT, AIR FORCE		
COMBAT AIRCRAFT TACTICAL FORCES		
1	F-35.....	4,274,359 5,248,059
2	F-35 (AP-CY).....	655,500 811,500
3	F-15E.....	1,050,000 621,100
	TOTAL, COMBAT AIRCRAFT.....	5,979,859 6,680,659

AIRLIFT AIRCRAFT/TACTICAL AIRLIFT		
4	KC-46A TANKER.....	2,234,529 2,139,705
OTHER AIRLIFT		
6	C-130J.....	12,156 404,156
8	MC-130J.....	871,207 857,607
9	MC-130J (AP).....	40,000 40,000
	TOTAL, AIRLIFT AIRCRAFT.....	3,157,892 3,441,468

OTHER AIRCRAFT HELICOPTERS		
10	COMBAT RESCUE HELICOPTER.....	884,235 850,535
MISSION SUPPORT AIRCRAFT		
11	C-37A.....	161,000 159,140
12	CIVIL AIR PATROL A/C.....	2,767 11,000
OTHER AIRCRAFT		
14	TARGET DRONES.....	130,837 130,837
15	COMPASS CALL.....	114,095 114,095
16	OBSERVATION ATTACK REPLACEMENT (QA-X) LIGHT ATTACK....	--- 210,000
17	MQ-9.....	189,205 92,160
	TOTAL, OTHER AIRCRAFT.....	1,482,139 1,567,767

64A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
MODIFICATION OF INSERVICE AIRCRAFT		
STRATEGIC AIRCRAFT		
19	B-2A.....	9,582 9,582
20	B-1B.....	22,111 18,911
21	B-52.....	69,648 47,926
22	LARGE AIRCRAFT INFRARED COUNTERMEASURES.....	43,758 43,758
TACTICAL AIRCRAFT		
23	A-10.....	132,069 125,825
24	E-11 BACN/HAG.....	70,027 70,027
25	F-15.....	481,073 474,137
26	F-16.....	234,782 281,476
28	F-22A.....	323,597 209,297
30	F-35 MODIFICATIONS.....	343,590 329,590
31	F-15 EPAW.....	149,047 125,417
32	INCREMENT 3.2b.....	20,213 20,213
33	KC-46A MODS.....	10,213 5,213
AIRLIFT AIRCRAFT		
34	C-5.....	73,550 57,937
36	C-17A.....	60,244 60,244
37	C-21.....	216 216
38	C-32A.....	11,511 11,511
39	C-37A.....	435 435
TRAINER AIRCRAFT		
GLIDER MODS.....		
40		138 138
41	T6.....	11,826 11,826
42	T-1.....	26,787 26,787
43	T-38.....	37,341 37,341

64B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
44	OTHER AIRCRAFT	
	U-2 MODS.....	86,896 58,563
45	KC-10A (ATCA).....	2,108 2,108
46	C-12.....	3,021 3,021
47	VC-25A MOD.....	48,624 48,624
48	C-40.....	256 256
49	C-130.....	52,066 186,066
50	C130J MODS.....	141,686 128,399
51	C-135.....	124,491 113,351
53	COMPASS CALL MODS.....	110,754 110,754
54	COMBAT FLIGHT INSPECTION (CFIN).....	508 508
55	RC-135.....	227,673 227,673
56	E-3.....	216,299 112,092
57	E-4.....	58,477 58,477
58	E-8.....	28,778 48,778
59	AIRBORNE WARNING AND CONTROL SYSTEM.....	36,000 32,821
60	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS.....	7,910 7,910
61	H-1.....	3,817 3,817
62	H-60.....	20,879 26,879
63	RQ-4 UAV MODS.....	1,704 1,704
64	HC/MC-130 MODIFICATIONS.....	51,482 34,850
65	OTHER AIRCRAFT.....	50,098 50,098
66	MQ-9 MODS.....	383,594 254,415
68	CV-22 MODS.....	65,348 65,348
	TOTAL, MODIFICATION OF INSERVICE AIRCRAFT.....	3,854,227 3,544,319

64C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
69	AIRCRAFT SPARES AND REPAIR PARTS INITIAL SPARES/REPAIR PARTS.....	708,230 690,555
72	AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES COMMON SUPPORT EQUIPMENT AIRCRAFT REPLACEMENT SUPPORT EQUIP.....	84,938 84,938
73	POST PRODUCTION SUPPORT B-2A.....	1,403 1,403
74	B-2B.....	42,234 42,234
75	B-52.....	4,641 2,341
76	C-17A.....	124,805 124,805
79	F-15	2,589 2,589
81	F-16 POST PRODUCTION SUPPORT.....	15,348 11,402
84	RQ-4 POST PRODUCTION CHARGES.....	47,246 47,246
86	INDUSTRIAL PREPAREDNESS INDUSTRIAL PREPAREDNESS.....	17,705 17,705
87	WAR CONSUMABLES WAR CONSUMABLES.....	32,102 32,102
88	OTHER PRODUCTION CHARGES OTHER PRODUCTION CHARGES.....	1,194,728 1,186,635
	TOTAL, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES....	1,567,739 1,553,400
	CLASSIFIED PROGRAMS.....	34,193 34,193
	TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE.....	16,784,279 17,512,361

64D

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
1 F-35	4,274,359	5,248,059
Unit cost adjustment		-219,100
Other corporate ops carryover		-10,000
Program increase - fourteen aircraft		1,202,800
2 F-35 (AP)	655,500	811,500
Program increase		156,000
3 F-15EX	1,050,000	621,100
Excess to need		-64,500
Transfer two test aircraft and NRE funds to RDTE,AF line 180		-364,400
5 KC-46	2,234,529	2,139,705
Unit cost adjustment		-36,000
WARP kits cost growth		-10,280
Excess depot standup funding due to delivery delays		-48,544
6 C-130J	12,156	404,156
Program increase - four aircraft for the Air Force Reserve		392,000
8 MC-130J	871,207	857,607
Excess unit cost growth		-13,600
10 COMBAT RESCUE HELICOPTER	884,235	850,535
Other flyaway costs unjustified		-6,200
Engineering change orders excess		-17,500
Program management excess growth		-10,000
11 C-37A	161,000	159,140
Unobligated balances		-1,860
12 CIVIL AIR PATROL	2,767	11,000
Program increase		8,233
OBSERVATION ATTACK REPLACEMENT (OA-X) LIGHT ATTACK		
16 AIRCRAFT	0	210,000
Program increase		210,000
17 MQ-9	189,205	92,160
Unit cost adjustment		-14,400
Block 50 ground control stations ahead of testing		-46,845
Block 50 ground control simulator ahead of need		-35,800
20 B-1B	22,111	18,911
ADS-B out ahead of need		-3,200
21 B-52	69,648	47,926
Bomber tactical data link ahead of need		-4,000
Crypto modernization funding ahead of need		-17,722

64E

P-1	Budget Request	Final Bill
23 A-10 Prior year carryover	132,069	125,825 -6,244
25 F-15 F-15C MUOS ahead of need APG-82 installation cost growth ADCP II-C installation funding ahead of need Program increase - anti-jam capability	481,073	474,137 -630 -10,300 -3,006 7,000
26 F-16 Aggressors update excess to need Program increase - AESA radar upgrades for the Air National Guard Modular mission computer funding ahead of need Digital radar warning receiver funding ahead of need AIFF mode 5 funding excess to requirement	234,782	281,476 -1,524 75,000 -14,530 -4,315 -7,937
28 F-22 Link 16 delays Air Force requested transfer to RDTE,AF line 182 for F-22A modernization Sensor enhancement funding ahead of need	323,597	209,297 -14,300 -50,000 -50,000
30 F-35 MODIFICATIONS Concurrency ICS excess growth Correction of deficiencies excess support costs	343,590	329,590 -6,000 -8,000
31 F-15 EPAWSS Unit cost growth Installation funding ahead of need	149,047	125,417 -17,400 -6,230
33 KC-46 MODS Funding ahead of need	10,213	5,213 -5,000
34 C-5 CMC weather radar contract delays	73,550	57,937 -15,613
44 U-2 Program increase - avionics tech refresh upgrade Electronic warfare systems delay Airframe sensors and data recorder delays ASARS-2B funding ahead of need	86,896	58,563 20,000 -3,000 -11,900 -33,433
49 C-130 Program increase - engine enhancement program Program increase - eight-blade propeller upgrade	52,066	186,066 79,000 55,000
50 C-130J MODS Block 8.1 cost growth Block 8.1 excess support costs Center wing replacement installation cost growth	141,686	128,399 -2,990 -6,500 -3,797

(64F)

P-1	Budget Request	Final Bill
51 C-135	124,491	113,351
Low cost mods slow execution		-1,000
RPI installs funded with prior year funds		-875
Block 45 installation funding ahead of need		-4,465
RTIC installation funding carryover		-4,800
56 E-3	216,299	112,092
Air Force requested transfer to line 88 for NATO AWACS		-87,307
Communication network upgrade funding ahead of need		-6,000
DRAGON installation funding ahead of need		-10,900
58 E-8	28,778	48,778
Program increase		20,000
59 AWACS 40/45	36,000	32,821
Block 40/45 installation cost growth		-3,179
62 H-60	20,879	26,879
Program increase - operational loss replacement kits		6,000
64 HC/MC-130 MODS	51,482	34,850
Block 8.1 funds ahead of need		-16,632
66 MQ-9 MODS	383,594	254,415
DAS-4 excess to need		-101,500
MQ-9 field retrofit delays		-20,000
GCS block 30 modernization cost growth		-7,579
SLAM funding ahead of need		-100
69 INITIAL SPARES/REPAIR PARTS	708,230	690,555
F-15 spares excess to requirement		-30,000
E-3 spares excess to requirement		-6,775
MQ-9 spares excess to requirement		-5,900
Program increase - RQ-4 spares		25,000
75 B-52	4,641	2,341
Prior year carryover		-2,300
81 F-16	15,348	11,402
Digital radar warning receiver funding ahead of need		-3,946
88 OTHER PRODUCTION CHARGES	1,194,728	1,186,635
F-22 Next Gen Lab excess to need		-72,000
RQ-4 delayed obligations		-16,000
Air Force requested transfer from line 56 for NATO AWACS		87,307
MQ-9 prior year carryover		-4,500
Classified adjustment		-2,900

(649)

MISSILE PROCUREMENT, AIR FORCE

The agreement provides \$2,575,890,000 for Missile Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 65A-B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

MISSILE PROCUREMENT, AIR FORCE		
BALLISTIC MISSILES		
1	MISSILE REPLACEMENT EQUIPMENT - BALLISTIC MISSILE REPLACEMENT EQ-BALLISTIC.....	55,888 55,888
OTHER MISSILES		
2	TACTICAL REPLAC EQUIP & WAR CONSUMABLES.....	9,100 4,500
3	JOINT AIR-TO-GROUND MUNITION.....	15,000 10,000
4	JOINT AIR-SURFACE STANDOFF MISSILE (JASSM).....	482,525 462,525
6	SIDEWINDER (AIM-9X).....	160,408 155,289
7	AMRAAM.....	332,250 311,730
8	PREDATOR HELLFIRE MISSILE.....	118,860 118,860
9	SMALL DIAMETER BOMB.....	275,438 273,288
10	SMALL DIAMETER BOMB II.....	212,434 183,279
INDUSTRIAL FACILITIES		
11	INDUSTRIAL PREPAREDNESS/POLLUTION PREVENTION.....	801 801

	TOTAL, OTHER MISSILES.....	1,606,816 1,520,272
MODIFICATION OF INSERVICE MISSILES		
CLASS IV		
12	ICBM FUZE MOD.....	5,000 5,000
13	ICBM FUZE MOD.....	14,497 14,497
14	MM III MODIFICATIONS.....	50,831 59,705
15	AGM-65D MAVERICK.....	294 294
16	AIR LAUNCH CRUISE MISSILE.....	77,387 68,513

	TOTAL, MODIFICATION OF INSERVICE MISSILES.....	148,009 148,009
SPARES AND REPAIR PARTS		
18	INITIAL SPARES/REPAIR PARTS.....	1,910 1,910
19	REPLEN SPARES/REPAIR PARTS.....	82,490 72,490

	TOTAL, SPARES AND REPAIR PARTS.....	84,400 74,400
SPECIAL PROGRAMS		
23	SPECIAL UPDATE PROGRAMS.....	144,553 134,553
	CLASSIFIED PROGRAMS.....	849,521 642,768

	TOTAL, SPECIAL PROGRAMS.....	994,074 777,321

	TOTAL, MISSILE PROCUREMENT, AIR FORCE.....	2,889,187 2,575,890
=====		

(65A)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
2 REPLACEMENT EQUIPMENT & WAR CONSUMABLES	9,100	4,500
Lack of justification		-4,600
3 JAGM	15,000	10,000
Lack of clear requirement or funding strategy		-5,000
4 JASSM	482,525	462,525
Re-pricing of variants		-20,000
6 SIDEWINDER (AIM-9X)	160,408	155,289
AUR unit cost growth		-5,119
7 AMRAAM	332,250	311,730
Unjustified production test support		-4,020
AUR unit cost growth		-16,500
9 SMALL DIAMETER BOMB	275,438	273,288
Obsolescence contracts - unjustified growth		-2,150
10 SMALL DIAMETER BOMB II	212,434	183,279
AUR unit cost adjustment		-29,155
14 MMIII MODIFICATIONS	50,831	59,705
ICU II - Air Force requested transfer from line 16		8,874
16 ALCM	77,387	68,513
ICU II - Air Force requested transfer to line 14		-8,874
19 REPLENISHMENT SPARES / REPAIR PARTS	82,490	72,490
Historical underexecution		-10,000
23 SPECIAL UPDATE PROGRAMS	144,553	134,553
Classified adjustment		-10,000
999 CLASSIFIED PROGRAMS	849,521	642,768
Classified adjustment		-206,753

(65B)

SPACE PROCUREMENT, AIR FORCE

The agreement provides \$2,353,383,000 for Space Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~ insert 66A-B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

SPACE PROCUREMENT, AIR FORCE		
SPACE PROGRAMS		
1	ADVANCED EHF.....	31,894 21,894
2	AF SATELLITE COMM SYSTEM.....	56,298 56,298
4	COUNTERSPACE SYSTEMS.....	5,700 5,700
5	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS.....	34,020 24,020
7	GENERAL INFORMATION TECHNOLOGY - SPACE.....	3,244 3,244
8	GPS III FOLLOW ON.....	414,625 394,625
9	GPS III SPACE SEGMENT.....	31,466 31,466
12	SPACE COMMUNICATIONS SECURITY.....	32,031 32,031
13	MILSATCOM TERMINALS.....	11,096 11,096
15	EVOLVED EXPENDABLE LAUNCH VEHICLE.....	1,237,635 1,237,635
16	SBIR HIGH (SPACE).....	233,952 226,952
17	NUDET DETECTION SYSTEM SPACE.....	7,432 7,432
18	ROCKET SYSTEM LAUNCH PROGRAM.....	11,473 11,473
19	SPACE FENCE.....	71,784 57,784
20	SPACE MODS SPACE.....	106,330 106,330
21	SPACELIFT RANGE SYSTEM SPACE.....	118,140 118,140
SPARES AND REPAIR PARTS		
22	INITIAL SPARES/REPAIR PARTS.....	7,263 7,263

TOTAL, SPACE PROCUREMENT, AIR FORCE.....		2,414,383 2,353,383
		=====

66A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
1 ADVANCED EXTREMELY HIGH FREQUENCY SATELLITE Anticipated cost savings	31,894	21,894 -10,000
5 FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS Underexecution	34,020	24,020 -10,000
8 GPS III FOLLOW ON Excess to need	414,625	394,625 -20,000
16 SBIR HIGH (SPACE) Underexecution Program increase - infrared detectors	233,952	226,952 -10,000 3,000
19 SPACE FENCE Excess to need	71,784	57,784 -14,000

(66B)

PROCUREMENT OF AMMUNITION, AIR FORCE

The agreement provides \$1,625,661,000 for Procurement of Ammunition, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 67A-B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT OF AMMUNITION, AIR FORCE		
1	PROCUREMENT OF AMMO, AIR FORCE ROCKETS.....	122,968
2	CARTRIDGES.....	140,449
3	BOMBS PRACTICE BOMBS.....	29,313
4	GENERAL PURPOSE BOMBS.....	85,885
6	JOINT DIRECT ATTACK MUNITION.....	1,034,224
7	B61.....	80,773
9	FLARE, IR MJU-7B CAD/PAD.....	47,069
10	EXPLOSIVE ORDNANCE DISPOSAL (EOD).....	6,133
11	SPARES AND REPAIR PARTS.....	533
12	MODIFICATIONS.....	1,291
13	ITEMS LESS THAN \$5,000,000.....	1,677
	FLARES/FUZES	
15	FLARES.....	36,116
16	FUZES.....	1,734
	-----	-----
	TOTAL, PROCUREMENT OF AMMO, AIR FORCE.....	1,588,165
17	WEAPONS SMALL ARMS.....	37,496
	-----	-----
	TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE.....	1,625,661
	=====	=====

67A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
1 ROCKETS	0	122,968
Transfer from title IX		133,268
APKWS Mk 66 rocket motor price adjustment		-10,000
APKWS production support growth		-300
2 CARTRIDGES	0	140,449
Transfer from title IX		140,449
3 PRACTICE BOMBS	0	29,313
Transfer from title IX		29,313
4 GENERAL PURPOSE BOMBS	0	85,885
Transfer from title IX		85,885
Realign from BLU-117 to multi-purpose load facility in accordance with Air Force plan		-17,000
Realign to multi-purpose load facility from BLU-117 in accordance with Air Force plan		17,000
6 JOINT DIRECT ATTACK MUNITION	0	1,034,224
Transfer from title IX		1,066,224
JDAM tailkit unit cost adjustment		-32,000
7 B61	0	80,773
Transfer from title IX		80,773
9 CAD/PAD	0	47,069
Transfer from title IX		47,069
10 EXPLOSIVE ORDNANCE DISPOSAL	0	6,133
Transfer from title IX		6,133
11 SPARES AND REPAIR PARTS	0	533
Transfer from title IX		533
12 MODIFICATIONS	0	1,291
Transfer from title IX		1,291
13 ITEMS LESS THAN \$5M	0	1,677
Transfer from title IX		1,677
15 FLARES	0	36,116
Transfer from title IX		36,116
16 FUZES	0	1,734
Transfer from title IX		1,734
17 SMALL ARMS	0	37,496
Transfer from title IX		37,496

(67B)

OTHER PROCUREMENT, AIR FORCE

The agreement provides \$21,410,021,000 for Other Procurement, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 68A-D

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

OTHER PROCUREMENT, AIR FORCE		
VEHICULAR EQUIPMENT		
1	PASSENGER CARRYING VEHICLES	
	PASSENGER CARRYING VEHICLE.....	15,238 15,238
CARGO + UTILITY VEHICLES		
2	FAMILY MEDIUM TACTICAL VEHICLE.....	34,616 34,616
3	CAP VEHICLES.....	1,040 1,700
4	ITEMS LESS THAN \$5M (CARGO AND UTILITY VEHICLES).....	23,133 23,133
SPECIAL PURPOSE VEHICLES		
5	JOINT LIGHT TACTICAL VEHICLE.....	32,027 32,027
6	SECURITY AND TACTICAL VEHICLES.....	1,315 1,315
7	ITEMS LESS THAN \$5M (SPECIAL PURPOSE VEHICLES).....	14,593 14,593
FIRE FIGHTING EQUIPMENT		
8	FIRE FIGHTING/CRASH RESCUE VEHICLES.....	28,604 28,604
MATERIALS HANDLING EQUIPMENT		
9	ITEMS LESS THAT \$5M (MATERIALS HANDLING EQUIPMENT)....	21,848 21,848
BASE MAINTENANCE SUPPORT		
10	RUNWAY SNOW REMOVAL & CLEANING EQUIP.....	2,925 2,925
11	ITEMS LESS THAN \$5M (BASE MAINTENANCE SUPPORT VEHICLES).....	55,776 55,776

	TOTAL, VEHICULAR EQUIPMENT.....	231,115 231,775
ELECTRONICS AND TELECOMMUNICATIONS EQUIP		
13	COMM SECURITY EQUIPMENT(COMSEC) COMSEC EQUIPMENT.....	91,461 81,461
INTELLIGENCE PROGRAMS		
14	INTERNATIONAL INTEL TECH AND ARCHITECTURES.....	11,386 11,386
15	INTELLIGENCE TRAINING EQUIPMENT.....	7,619 7,619
16	INTELLIGENCE COMM EQUIP.....	35,558 32,048
ELECTRONICS PROGRAMS		
17	TRAFFIC CONTROL/LANDING.....	17,939 22,939
19	BATTLE CONTROL SYSTEM - FIXED.....	3,063 3,063
21	WEATHER OBSERVATION FORECAST.....	31,447 31,447
22	STRATEGIC COMMAND AND CONTROL.....	5,090 5,090
23	CHEYENNE MOUNTAIN COMPLEX.....	10,145 10,145
24	MISSION PLANNING SYSTEMS.....	14,508 14,508
26	INTEGRATED STRAT PLAN AND ANALY NETWORK (ISPAN).....	9,901 8,601

68A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
27	SPECIAL COMM-ELECTRONICS PROJECTS GENERAL INFORMATION TECHNOLOGY.....	26,933 31,753
28	AF GLOBAL COMMAND & CONTROL SYSTEM.....	2,756 2,756
29	BATTLEFIELD AIRBORNE CONTROL NODE (BACN).....	48,478 48,478
30	MOBILITY COMMAND AND CONTROL.....	21,186 21,186
31	AIR FORCE PHYSICAL SECURITY SYSTEM.....	178,361 178,361
32	COMBAT TRAINING RANGES.....	233,993 282,893
33	MINIMUM ESSENTIAL EMERGENCY COMM N.....	132,648 132,648
34	WIDE AREA SURVEILLANCE (WAS).....	80,818 42,118
35	C3 COUNTERMEASURES.....	25,036 25,036
36	INTEGRATED PERSONNEL AND PAY SYSTEM.....	20,900 ---
37	GCSS-AF FOS.....	11,226 11,226
38	DEFENSE ENTERPRISE ACCOUNTING AND MGMT.....	1,905 1,905
39	MAINTENANCE REPAIR AND OVERHAUL INITIATIVE.....	1,912 1,912
40	THEATER BATTLE MGT C2 SYS.....	6,337 6,337
41	AIR AND SPACE OPERATIONS CTR-WPN SYSTEM.....	33,243 33,243
43	AIR FORCE COMMUNICATIONS INFORMATION TRANSPORT SYSTEMS.....	69,530 62,280
44	AFNET.....	147,063 131,063
45	JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE).....	6,505 6,505
46	USCENTCOM.....	20,190 20,190
47	USSTRATCOM.....	11,244 11,244
48	ORGANIZATION AND BASE TACTICAL C-E EQUIPMENT.....	143,757 143,757
50	RADIO EQUIPMENT.....	15,402 15,402
51	CCTV/AUDIOVISUAL EQUIPMENT.....	3,211 2,211
52	BASE COMM INFRASTRUCTURE.....	43,123 43,123
53	MODIFICATIONS COMM ELECT MODS.....	14,500 14,500
	TOTAL, ELECTRONICS AND TELECOMMUNICATIONS EQUIP.....	1,538,374 1,498,434
54	OTHER BASE MAINTENANCE AND SUPPORT EQUIP PERSONAL SAFETY AND RESCUE EQUIP ITEMS LESS THAN \$5,000,000 (SAFETY).....	50,634 46,934
55	DEPOT PLANT + MATERIALS HANDLING EQ POWER CONDITIONING EQUIPMENT.....	11,000 11,000
56	MECHANIZED MATERIAL HANDLING.....	11,901 11,901
	BASE SUPPORT EQUIPMENT	

68B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
57	BASE PROCURED EQUIPMENT.....	23,963 23,963
58	ENGINEERING AND EOD EQUIPMENT.....	34,124 34,124
59	MOBILITY EQUIPMENT.....	26,439 26,439
60	FUELS SUPPORT EQUIPMENT (FSE).....	24,255 24,255
61	ITEMS LESS THAN \$5M (BASE SUPPORT).....	38,986 38,986
	SPECIAL SUPPORT PROJECTS	
63	DARP RC135.....	26,716 26,716
64	DISTRIBUTED GROUND SYSTEMS.....	116,055 116,055
66	SPECIAL UPDATE PROGRAM.....	835,148 917,148
	TOTAL, OTHER BASE MAINTENANCE AND SUPPORT EQUIP.....	1,199,221 1,277,521
	SPARE AND REPAIR PARTS	
67	SPARES AND REPAIR PARTS.....	81,340 81,340
	CLASSIFIED PROGRAMS.....	17,637,807 18,320,951
	TOTAL, OTHER PROCUREMENT, AIR FORCE.....	20,687,857 21,410,021

(68C)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1		Budget Request	Final Bill
3	CAP VEHICLES	1,040	1,700
	Program increase - vehicles		660
13	COMSEC EQUIPMENT	91,461	81,461
	Unobligated balances		-10,000
16	INTELLIGENCE COMM EQUIPMENT	35,558	32,048
	IMAD procurement unjustified		-3,510
17	AIR TRAFFIC CONTROL & LANDING SYSTEMS	17,939	22,939
	Program increase - deployable instrument landing system		5,000
26	ISPAN	9,901	8,601
	Unit cost growth		-1,300
27	GENERAL INFORMATION TECHNOLOGY	26,933	31,753
	Air Force requested transfer from OM,AF SAG 11D for SCARS		4,820
32	COMBAT TRAINING RANGES	233,993	282,893
	Program increase - joint threat emitters		28,000
	Program increase - F-35 advanced threat systems		20,900
34	WIDE AREA SURVEILLANCE	80,818	42,118
	Schedule slips		-18,700
	Air Force requested transfer to RDTE,AF line 155 for WAS		-20,000
36	INTEGRATED PERSONNEL AND PAY SYSTEM	20,900	0
	Acquisition strategy		-20,900
43	BITI WIRED	69,530	62,280
	Restoring acquisition accountability		-7,250
44	AFNET	147,063	131,063
	Maintain level of effort		-4,000
	Prior year carryover		-7,000
	Poor justification materials		-5,000
51	CCTV / AUDIOVISUAL EQUIPMENT	3,211	2,211
	Underexecution		-1,000
54	PERSONAL SAFETY & RESCUE EQUIPMENT	50,634	46,934
	Integrated aircrew ensemble unit cost increase		-2,200
	Next generation fixed wing helmet ahead of need		-1,500
66	SPECIAL UPDATE PROGRAM	835,148	917,148
	Classified adjustment		82,000
999	CLASSIFIED PROGRAMS	17,637,807	18,320,951
	Classified adjustment		683,144

(68D)

PROCUREMENT, DEFENSE-WIDE

The agreement provides \$5,332,147,000 for Procurement, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 6AA-E

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

PROCUREMENT, DEFENSE-WIDE		
2		
	MAJOR EQUIPMENT	
	MAJOR EQUIPMENT, DCMA	
	MAJOR EQUIPMENT.....	
	2,432	2,432
3		
	MAJOR EQUIPMENT, DHRA	
	PERSONNEL ADMINISTRATION.....	
	5,030	5,030
8		
	MAJOR EQUIPMENT, DISA	
	INFORMATION SYSTEMS SECURITY.....	
	3,318	4,718
9		
	TELEPORT PROGRAM.....	
	25,103	25,103
10		
	ITEMS LESS THAN \$5M.....	
	26,416	26,416
12		
	DEFENSE INFORMATION SYSTEMS NETWORK.....	
	17,574	17,574
14		
	WHITE HOUSE COMMUNICATION AGENCY.....	
	45,079	45,079
15		
	SENIOR LEADERSHIP ENTERPRISE.....	
	78,669	78,669
16		
	JOINT REGIONAL SECURITY STACKS (JRSS).....	
	88,000	88,000
17		
	JOINT SERVICE PROVIDER.....	
	107,907	107,907
	MAJOR EQUIPMENT, DLA	
19		
	MAJOR EQUIPMENT.....	
	8,122	5,992
	MAJOR EQUIPMENT, DMACT	
20		
	A - WEAPON SYSTEM COST.....	
	10,961	10,961
	MAJOR EQUIPMENT, DODEA	
21		
	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS.....	
	1,320	1,320
	MAJOR EQUIPMENT, DPAA	
22		
	MAJOR EQUIPMENT, DPAA.....	
	1,504	1,128
	MAJOR EQUIPMENT, DSS	
23		
	MAJOR EQUIPMENT.....	
	496	5,703
	MAJOR EQUIPMENT, DEFENSE THREAT REDUCTION AGENCY	
25		
	VEHICLES.....	
	211	211
26		
	OTHER MAJOR EQUIPMENT.....	
	11,521	11,521

69A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
28	MAJOR EQUIPMENT, MDA THAAD SYSTEM.....	425,863 407,203
29	GROUND BASED MIDCOURSE.....	9,471 285,471
31	AEGIS BMD.....	600,773 336,374
32	AEGIS BMD (AP).....	96,995 96,995
XX	AEGIS BMD SM-3 BLOCK IIA.....	--- 238,000
33	BMDS AN/TPY-2 RADARS.....	10,046 10,046
34	ISRAELI PROGRAMS.....	55,000 55,000
35	SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD).....	50,000 50,000
36	AEGIS ASHORE PHASE III.....	25,659 25,659
37	IRON DOME SYSTEM.....	95,000 95,000
38	AEGIS BMD HARDWARE AND SOFTWARE.....	124,986 124,986
44	MAJOR EQUIPMENT, NSA INFORMATION SYSTEMS SECURITY PROGRAM (ISSP).....	1,533 133
45	MAJOR EQUIPMENT, OSD MAJOR EQUIPMENT, OSD.....	43,705 43,705
46	MAJOR EQUIPMENT, TJS MAJOR EQUIPMENT, TJS.....	6,905 6,905
47	MAJOR EQUIPMENT - TJS CYBER.....	1,458 1,458
49	MAJOR EQUIPMENT, WHS MAJOR EQUIPMENT, WHS.....	507 507
	TOTAL, MAJOR EQUIPMENT.....	1,981,564 2,215,206
53	SPECIAL OPERATIONS COMMAND AVIATION PROGRAMS SOF ROTARY WING UPGRADES AND SUSTAINMENT.....	172,020 172,020
54	UNMANNED ISR.....	15,208 11,748
55	NON-STANDARD AVIATION.....	32,310 32,310
56	SOF U-28.....	10,898 10,898
57	MH-47 CHINOOK.....	173,812 171,812
58	CV-22 SOF MODIFICATION.....	17,256 17,256
59	MQ-9 UNMANNED AERIAL VEHICLE.....	5,338 5,338
60	PRECISION STRIKE PACKAGE.....	232,930 232,930
61	AC/MC-130J.....	173,419 143,232
62	C-130 MODIFICATIONS.....	15,582 15,582

69B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
63	SHIPBUILDING UNDERWATER SYSTEMS.....	58,991 58,991
64	AMMUNITION PROGRAMS SOF ORDNANCE ITEMS UNDER \$5,000,000.....	279,992 273,992
65	OTHER PROCUREMENT PROGRAMS SOF INTELLIGENCE SYSTEMS.....	100,641 100,641
66	DCGS-SOF.....	12,522 12,522
67	OTHER ITEMS UNDER \$5,000,000.....	103,910 103,910
68	SOF COMBATANT CRAFT SYSTEMS.....	33,088 48,462
69	SPECIAL PROGRAMS.....	63,467 63,467
70	TACTICAL VEHICLES.....	77,832 111,132
71	WARRIOR SYSTEMS UNDER \$5,000,000.....	298,480 298,480
72	COMBAT MISSION REQUIREMENTS.....	19,702 19,702
73	SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	4,787 4,787
74	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	8,175 8,175
75	SOF OPERATIONAL ENHANCEMENTS.....	282,532 282,532
	TOTAL, SPECIAL OPERATIONS COMMAND.....	2,192,892 2,199,919
76	CHEMICAL/BIOLOGICAL DEFENSE CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS.....	162,406 160,288
77	CB PROTECTION AND HAZARD MITIGATION.....	188,188 181,918
	TOTAL, CHEMICAL/BIOLOGICAL DEFENSE.....	350,594 342,206
	CLASSIFIED PROGRAMS.....	584,366 574,816
	TOTAL, PROCUREMENT, DEFENSE-WIDE.....	5,109,416 5,332,147

69C

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

P-1	Budget Request	Final Bill
8 INFORMATION SYSTEMS SECURITY Sharkseer - transfer from line 44	3,318	4,718 1,400
19 MAJOR EQUIPMENT Logistics support excess growth	8,122	5,992 -2,130
22 MAJOR EQUIPMENT Program reduction	1,504	1,128 -376
23 MAJOR EQUIPMENT Program increase - cyber threat detection capabilities	496	5,703 5,207
28 THAAD SYSTEM Unit cost savings	425,863	407,203 -18,660
29 GROUND BASED MIDCOURSE RKV program termination - early to need RKV realignment - additional boosters to maintain deployed GBIs RKV realignment - 22 Missile Field Launch Support Systems for Missile Fields 1 and 4 RKV realignment - additional 44 Missile Field Launch Support Systems replacement	9,471	285,471 -9,000 150,000 45,000 90,000
31 AEGIS BMD Transfer to line XX for SM-3 Block IIA interceptors SM-3 Block IB multiyear unit cost savings	600,773	336,374 -238,000 -26,399
XX AEGIS BMD SM-3 Block IIA Transfer from line 31 for SM-3 Block IIA interceptors	0	238,000 238,000
44 INFORMATION SYSTEMS SECURITY PROGRAM (ISSP) Sharkseer - transfer to line 8	1,533	133 -1,400
54 UNMANNED ISR SOF unique mission kits excessive growth	15,208	11,748 -3,460
57 MH-47 CHINOOK Publication/tech data excess growth	173,812	171,812 -2,000
61 AC/MC-130J RF countermeasures excess to need RFCM - SOCOM requested transfer to RDTE, DW line 256	173,419	143,232 -21,787 -8,400
64 SOF ORDNANCE ITEMS UNDER \$5M SOPGM unit cost adjustments	279,992	273,992 -6,000
68 SOF COMBATANT CRAFT SYSTEMS Program increase - combatant craft assault Program increase - combatant craft medium training loss	33,088	48,462 8,169 7,205

69D

P-1	Budget Request	Final Bill
70 TACTICAL VEHICLES	77,832	111,132
Program increase - Ground Mobility Vehicles		33,300
76 CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS	162,406	160,288
Program increase - CBRN dismounted reconnaissance system		5,000
EMBD maintain level of effort		-1,500
MMPRDS		-1,623
JCAD		-2,247
CSIRP Acquisition strategy		-1,748
77 CB PROTECTION AND HAZARD MITIGATION	188,188	181,918
Program increase - detection and protective equipment		5,000
Program increase - CB protective shelter		5,000
Program increase - joint service lightweight integrated suit technology		2,000
JSAM RW schedule slips		-12,570
AAS schedule slips		-2,200
VAC BOT schedule slips		-3,000
VAC PLG schedule slips		-500
999 CLASSIFIED PROGRAMS	584,366	574,816
Classified adjustment		-14,550
Transfer from title IX		5,000

(69E)

DEFENSE PRODUCTION ACT PURCHASES

The agreement provides \$64,393,000 for Defense Production Act Purchases, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
DEFENSE PRODUCTION ACT PURCHASES	34,393	64,393
Program increase		30,000
TOTAL, DEFENSE PRODUCTION ACT PURCHASES	34,393	64,393

JOINT URGENT OPERATIONAL NEEDS FUND

The agreement does not recommend funding for the Joint Urgent Operational Needs Fund.

TITLE IV - RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The agreement provides \$104,431,232,000 in Title IV, Research, Development, Test and Evaluation, as follows:

~~(INSERT RDTE SUMMARY TABLE)~~ Insert 7IA

(IN THOUSANDS OF DOLLARS)

BUDGET
REQUEST

FINAL
BILL

RECAPITULATION

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY.....	12,192,771	12,543,435
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY.....	20,270,499	20,155,115
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE.	45,616,122	45,566,955
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE.....	24,346,953	25,938,027
OPERATIONAL TEST AND EVALUATION, DEFENSE.....	221,200	227,700
GRAND TOTAL, RDT&E.....	<u>102,647,545</u>	<u>104,431,232</u>

71A

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

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

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

FUNDING INCREASES

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

RESEARCH, DEVELOPMENT, TEST AND EVALUATION SPECIAL INTEREST ITEMS

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

JOINT HYPERSONICS TRANSITION OFFICE

Hypersonic weapons pose a dangerous new class of threat to national security. They operate at exceptionally high speeds and can maneuver unpredictably, making them challenging to track and difficult to intercept. Potential adversaries, such as Russia and China, have recognized the value of hypersonic weapons to offset United States military capabilities and hold United States forces at risk. Adversaries have made alarming progress in developing and demonstrating such weapons, far outstripping the pace of United States advancements. The agreement supports efforts aimed at developing capabilities to hold adversaries at risk, as well as capabilities to defend against growing hypersonic threats.

The agreement strongly supports increased emphasis on research, development, testing, and demonstration of hypersonics technologies and systems. However, there are concerns that the rapid growth in hypersonic research has the potential to result in stove-piped, proprietary systems that duplicate capabilities and increase costs.

The agreement includes \$100,000,000 for the Joint Hypersonics Transition Office to develop and implement an integrated science and technology roadmap for hypersonics and to establish a university consortium for hypersonics research and workforce development to support Department efforts to expedite testing, evaluation, and acquisition of hypersonic weapons systems, and to coordinate current and future research, development, test, and evaluation programs across the Department of Defense.

The Under Secretary of Defense (Research and Engineering) is directed to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act, and quarterly updates thereafter, on its integrated science and technology roadmap describing the short-term, mid-term, and long-term goals of the Department; progress toward achieving the goals; associated investment needed to achieve the goals; and plans for a university consortium.

TELECOMMUNICATIONS COMPONENTS SUPPLY CHAIN

The Under Secretary for Defense (Acquisition and Sustainment) is directed to provide a report to the congressional defense committees not later than 180 days after the enactment of this Act which evaluates the risk to the supply chain for fiber and related optical telecommunications components, and if appropriate, recommends risk mitigation strategies for Department of Defense acquisition programs.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

The agreement provides \$12,543,435,000 for Research, Development, Test and Evaluation, Army, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert TSA-T

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY		
2	BASIC RESEARCH DEFENSE RESEARCH SCIENCES.....	297,976 354,480
3	UNIVERSITY RESEARCH INITIATIVES.....	65,858 87,858
4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS.....	86,164 127,164
5	CYBER COLLABORATIVE RESEARCH ALLIANCE.....	4,982 4,982
	TOTAL, BASIC RESEARCH.....	454,980 574,484

10	APPLIED RESEARCH LETHALITY TECHNOLOGY.....	26,961 69,961
11	ARMY APPLIED RESEARCH.....	25,319 30,819
12	SOLDIER LETHALITY TECHNOLOGY.....	115,274 145,900
13	GROUND TECHNOLOGY.....	35,199 146,399
14	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY.....	219,047 263,547
15	NETWORK C3I TECHNOLOGY.....	114,516 135,516
16	LONG RANGE PRECISION FIRES TECHNOLOGY.....	74,327 120,327
17	FUTURE VERTICLE LIFT TECHNOLOGY.....	93,601 98,359
18	AIR AND MISSILE DEFENSE TECHNOLOGY.....	50,771 95,771
20	C3I APPLIED CYBER.....	18,947 18,947
38	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY.....	20,873 20,873
40	MEDICAL TECHNOLOGY.....	99,155 112,955
	TOTAL, APPLIED RESEARCH.....	893,990 1,259,374

42	ADVANCED TECHNOLOGY DEVELOPMENT MEDICAL ADVANCED TECHNOLOGY.....	42,030 83,030
47	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY..	11,038 11,038
50	ARMY ADVANCED TECHNOLOGY DEVELOPMENT.....	63,338 66,338
51	SOLDIER LETHALITY ADVANCED TECHNOLOGY.....	118,468 135,968
52	GROUND ADVANCED TECHNOLOGY.....	12,593 147,793
59	C3I CYBER ADVANCED DEVELOPMENT.....	13,769 23,769
60	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM.....	184,755 224,755
61	NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY....	160,035 260,535
62	NETWORK C3I ADVANCED TECHNOLOGY.....	106,899 131,899
63	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY.....	174,386 189,386

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
64	FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY.....	151,640 174,892
65	AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY.....	60,613 82,113
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	1,099,564 1,531,516
	DEMONSTRATION & VALIDATION	
73	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION.....	10,987 59,487
74	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING.....	15,148 52,480
75	LANDMINE WARFARE AND BARRIER - ADV DEV.....	92,915 82,915
77	TANK AND MEDIUM CALIBER AMMUNITION.....	82,146 77,696
78	ARMORED SYSTEM MODERNIZATION - ADV DEV.....	157,656 144,234
79	SOLDIER SUPPORT AND SURVIVABILITY.....	6,514 6,514
80	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - AD.....	34,890 27,490
81	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT.....	251,011 200,791
82	ENVIRONMENTAL QUALITY TECHNOLOGY.....	15,132 19,561
83	NATO RESEARCH AND DEVELOPMENT.....	5,406 5,406
84	AVIATION - ADV DEV.....	459,290 505,890
85	LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV.....	6,254 6,254
86	MEDICAL SYSTEMS - ADV DEV.....	31,175 36,975
87	SOLDIER SYSTEMS - ADVANCED DEVELOPMENT.....	22,113 26,113
88	ROBOTICS DEVELOPMENT.....	115,222 84,381
90	ELECTRONIC WARFARE TECHNOLOGY MATURATION (MIP).....	18,043 23,043
91	ANALYSIS OF ALTERNATIVES.....	10,023 10,023
92	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS).....	40,745 40,745
93	LOWER TIER AIR MISSILE DEFENSE (LTAMID) SENSOR.....	427,772 379,772
94	TECHNOLOGY MATURATION INITIATIVES.....	196,676 179,676
95	MANEUVER - SHORT RANGE AIR DEFENSE (M-SHORAD).....	33,100 42,900
97	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING.....	115,116 112,806
	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING.....	136,761 103,621
100	HYPERSONICS.....	228,000 404,000
102	FUTURE INTERCEPTOR.....	8,000 2,000
103	UNIFIED NETWORK TRANSPORT.....	39,600 29,700
104	MOBILE MEDIUM RANGE MISSILE.....	20,000 5,000
106	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	52,102 52,102
107	ASSURED POSITIONING, NAVIGATION AND TIMING (PNT).....	192,562 139,110

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
108 ARMY SPACE SYSTEMS INTEGRATION.....	104,996	104,996
TOTAL, DEMONSTRATION & VALIDATION.....	2,929,355	2,965,681
ENGINEERING & MANUFACTURING DEVELOPMENT		
109 AIRCRAFT AVIONICS.....	29,164	8,414
110 ELECTRONIC WARFARE DEVELOPMENT.....	70,539	59,539
113 INFANTRY SUPPORT WEAPONS.....	106,121	87,179
114 MEDIUM TACTICAL VEHICLES.....	2,152	---
115 JAVELIN.....	17,897	14,997
116 FAMILY OF HEAVY TACTICAL VEHICLES.....	16,745	13,125
117 AIR TRAFFIC CONTROL.....	6,989	5,781
118 LIGHT TACTICAL WHEELED VEHICLES.....	10,465	2,965
119 ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV.....	310,152	285,136
120 NIGHT VISION SYSTEMS - SDD.....	181,732	143,696
121 COMBAT FEEDING, CLOTHING, AND EQUIPMENT.....	2,393	7,393
122 NON-SYSTEM TRAINING DEVICES - SDD.....	27,412	30,912
123 AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD....	43,502	33,502
124 CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT.....	11,636	11,636
125 AUTOMATIC TEST EQUIPMENT DEVELOPMENT.....	10,915	10,915
126 DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD.....	7,801	7,801
127 BRILLIANT ANTI-ARMOR SUBMUNITION (BAT).....	25,000	20,000
128 COMBINED ARMS TACTICAL TRAINER (CATT) CORE.....	9,241	9,241
129 BRIGADE ANALYSIS, INTEGRATION AND EVALUATION.....	42,634	38,303
130 WEAPONS AND MUNITIONS - SDD.....	181,023	186,323
131 LOGISTICS AND ENGINEER EQUIPMENT - SDD.....	103,226	107,826
132 COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD.....	12,595	12,595
133 MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT.	48,264	48,264
134 LANDMINE WARFARE/BARRIER - SDD.....	39,208	37,108
135 ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE...	140,637	139,974
136 RADAR DEVELOPMENT.....	105,243	95,720
137 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEB).....	46,683	42,883
138 FIREFINDER.....	17,294	17,294
139 SOLDIER SYSTEMS - WARRIOR DEM/VAL.....	5,803	4,803
140 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD.....	98,698	85,198

750

(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
141	ARTILLERY SYSTEMS.....	15,832	10,732
142	INFORMATION TECHNOLOGY DEVELOPMENT.....	126,537	88,689
143	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A).....	142,773	102,073
144	ARMORED MULTI-PURPOSE VEHICLE.....	96,730	83,830
145	INTEGRATED GROUND SECURITY SURVEILLANCE RESPONSE CAPABILITY (IGSSR-C).....	6,699	6,699
146	JOINT TACTICAL NETWORK CENTER (JTNC).....	15,882	15,882
147	JOINT TACTICAL NETWORK (JTN).....	40,808	40,808
149	GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM - EXPENDITORY (GBOSS-E).....	3,847	3,847
150	TACTICAL SECURITY SYSTEM (TSS).....	6,928	6,928
151	COMMON INFRARED COUNTERMEASURES (CIRCM).....	34,488	23,179
152	COMBATING WEAPONS OF MASS DESTRUCTION (CWMD).....	10,000	10,000
154	NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE....	6,054	6,054
155	DEFENSIVE CYBER TOOL DEVELOPMENT.....	62,262	50,662
156	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER).....	35,654	28,404
157	CONTRACT WRITING SYSTEM.....	19,682	17,082
158	MISSILE WARNING SYSTEM MODERNIZATION (MWSM).....	1,539	1,539
159	AIRCRAFT SURVIVABILITY DEVELOPMENT.....	64,557	55,057
160	INDIRECT FIRE PROTECTION CAPABILITY INC 2 - BLOCK 1...	243,228	194,366
161	GROUND ROBOTICS.....	41,308	26,104
162	EMERGING TECHNOLOGY INITIATIVES.....	45,896	37,696
163	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION.....	164,883	164,883
165	JOINT AIR-TO-GROUND MISSILE (JAGM).....	9,500	6,585
166	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD).....	208,938	208,638
167	MANNED GROUND VEHICLE.....	378,400	205,620
168	NATIONAL CAPABILITIES INTEGRATION.....	7,835	7,835
169	JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING....	2,732	7,232
170	AVIATION GROUND SUPPORT EQUIPMENT.....	1,664	1,664
172	TROJAN - RH12.....	3,936	3,936
174	ELECTRONIC WARFARE DEVELOPMENT.....	19,675	15,232
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	3,549,431	2,999,779

750

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
176	RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT.....	14,117 42,117
177	TARGET SYSTEMS DEVELOPMENT.....	8,327 28,327
178	MAJOR T&E INVESTMENT.....	136,565 146,565
179	RAND ARROYO CENTER.....	13,113 13,113
180	ARMY KWAJALEIN ATOLL.....	238,691 238,691
181	CONCEPTS EXPERIMENTATION PROGRAM.....	42,922 36,922
183	ARMY TEST RANGES AND FACILITIES.....	334,468 336,468
184	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS.....	46,974 65,274
185	SURVIVABILITY/LETHALITY ANALYSIS.....	35,075 35,075
186	AIRCRAFT CERTIFICATION.....	3,461 3,461
187	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES.....	6,233 6,233
188	MATERIEL SYSTEMS ANALYSIS.....	21,342 21,342
189	EXPLOITATION OF FOREIGN ITEMS.....	11,168 11,168
190	SUPPORT OF OPERATIONAL TESTING.....	52,723 52,723
191	ARMY EVALUATION CENTER.....	60,815 60,815
192	ARMY MODELING AND SIMULATION X-CMD COLLABORATION AND INTEG.....	2,527 2,527
193	PROGRAMWIDE ACTIVITIES.....	58,175 58,175
194	TECHNICAL INFORMATION ACTIVITIES.....	25,060 30,060
195	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY...	44,458 54,458
196	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT.....	4,681 4,681
197	MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT)....	53,820 53,820
198	MILITARY GROUND-BASED CREW TECHNOLOGY.....	4,291 2,141
199	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE.....	62,069 62,069
200	COUNTERINTEL AND HUMAN INTEL MODERNIZATION.....	1,050 1,050
201	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES.....	4,500 4,500
	TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,286,625 1,371,775

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
204	OPERATIONAL SYSTEMS DEVELOPMENT MLRS PRODUCT IMPROVEMENT PROGRAM.....	22,877 14,615
206	ANTI-TAMPER TECHNOLOGY SUPPORT.....	8,491 8,491
207	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS....	15,645 15,645
209	LONG RANGE PRECISION FIRES (LRPF).....	164,182 156,682
211	BLACKHAWK RECAP/MODERNIZATION.....	13,039 23,039
212	CHINOOK HELICOPTER PRODUCT IMPROVEMENT PROGRAM.....	174,371 168,171
213	FIXED WING AIRCRAFT.....	4,545 ---
214	IMPROVED TURBINE ENGINE PROGRAM.....	206,434 206,434
216	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT.....	24,221 1,927
217	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS.....	32,016 18,132
218	APACHE FUTURE DEVELOPMENT.....	5,448 5,448
219	ARMY OPERATIONAL SYSTEMS DEVELOPMENT.....	49,526 45,026
220	FAMILY OF BIOMETRICS.....	1,702 1,702
221	PATRIOT PRODUCT IMPROVEMENT.....	96,430 87,430
222	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM....	47,398 47,398
223	COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	334,463 277,633
225	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS.....	214,246 199,274
226	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS...	16,486 9,278
227	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	144 144
228	DIGITIZATION.....	5,270 5,270
229	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	1,287 1,287
234	ENVIRONMENTAL QUALITY TECHNOLOGY - OPERATIONAL SYSTEM.	732 10,000
235	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM.....	107,746 97,746
236	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS).....	138,594 117,294
238	SECURITY AND INTELLIGENCE ACTIVITIES.....	13,845 13,845
239	INFORMATION SYSTEMS SECURITY PROGRAM.....	29,185 25,710
240	GLOBAL COMBAT SUPPORT SYSTEM.....	68,976 60,076
241	WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM.....	2,073 2,073
245	INTEGRATED BROADCAST SERVICE (IBS).....	459 459
246	TACTICAL UNMANNED AERIAL VEHICLES.....	5,097 5,097
247	AIRBORNE RECONNAISSANCE SYSTEMS.....	11,177 11,177
248	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	38,121 28,821
249	MQ-1C GRAY EAGLE.....	--- 5,000

75f

(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
250	RQ-11 UAV.....	3,218	3,218
251	RQ-7 UAV.....	7,817	7,817
252	BIOMETRICS ENABLED INTELLIGENCE.....	2,000	2,000
253	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	59,848	108,348
254	SATCOM GROUND ENVIRONMENT (SPACE).....	34,169	34,169
255	JOINT TACTICAL GROUND SYSTEM.....	10,275	7,677
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,971,553	1,833,553
9999	CLASSIFIED PROGRAMS.....	7,273	7,273
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.....	12,192,771	12,543,435

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
2 DEFENSE RESEARCH SCIENCES	297,976	354,480
Excess growth		-9,846
Program increase - propulsion technology		10,000
Program increase - ballistics and materials technology		10,000
Program increase - flexible LED lighting		5,350
Program increase - military waste stream conversion and energy recovery		5,000
Program increase - multi-layer and dynamically-responsive macromolecular composites		5,000
Program increase - advanced hemostat products		2,000
Program increase - multi-fuel ignition, chemistry and control strategies for unmanned aircraft systems hybrid propulsion		9,000
Program increase - transmission electron microscope		20,000
3 UNIVERSITY RESEARCH INITIATIVES	65,858	87,858
Program increase		22,000
4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS	86,164	127,164
Program increase - Army artificial intelligence innovation institute		20,000
Program increase - materials in extreme dynamic environments		5,000
Program increase - biotechnology advancements		4,000
Program increase - Catalyst		10,000
Program increase - university assisted hypervelocity testing		2,000
10 LETHALITY TECHNOLOGY	26,961	69,961
Program increase - medium range railgun weapon system		20,000
Program increase - additive manufacturing research		5,000
Program increase - next generation air-breathing propulsion technology		5,000
Program increase - mobile environment contaminant sensors		5,000
Program increase - hybrid additive manufacturing		8,000
11 ARMY APPLIED RESEARCH	25,319	30,819
Program increase - materials recovery technologies for defense supply resiliency		3,000
Program increase - flexible smart sensors		2,500
12 SOLDIER LETHALITY TECHNOLOGY	115,274	145,900
Program increase		5,000
Program increase - medical simulation and training		3,626
Program increase - SOCOM communications capability		2,500
Program increase - active and passive camouflage, concealment and deception		3,000
Program increase - human systems integration		10,000
Program increase - expeditionary mobile base camp technology		2,000
Program increase - harnessing emerging research opportunities to empower soldiers		4,500

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R-1	Budget Request	Final Bill
13 GROUND TECHNOLOGY	35,199	146,399
Program increase - environmental quality enhanced coatings		5,000
Program increase - environmental friendly coatings technology		3,000
Program increase - additive manufacturing for artificial intelligence and machine learning		5,000
Program increase - earthen structures soil enhancement		4,000
Program increase - M1 Abrams tank track system		2,200
Program increase - high performance polymers		5,000
Program increase - materials manufacturing processes		6,000
Program increase - highly durable advanced polymers for lightweight armor		8,000
Program increase - cellulose nanocomposites research		5,000
Program increase - countermine program		5,000
Program increase - materials research		17,500
Program increase - additive manufacturing and materials processing		15,000
Program increase - cold weather military research		3,000
Program increase - sensing technologies for rapid hazard detection		2,500
Program increase - cold spray technologies		15,000
Program increase - center for research in extreme batteries		10,000
14 NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	219,047	263,547
Program increase - prototyping energy smart autonomous ground systems		10,000
Program increase - highly electrified vehicles		5,000
Program increase - additive metals manufacturing		3,000
Program increase - RPG and IED protection		3,000
Program increase - modeling and simulation		3,000
Program increase - structural thermoplastics		3,000
Program increase - advanced materials development for survivability		10,000
Program increase - autonomous vehicle mobility		7,500
15 NETWORK C3I TECHNOLOGY	114,516	135,516
Program increase - small satellite technology		3,000
Program increase - radioisotope power systems		2,500
Program increase - anti-tamper technology development		10,000
Program increase - next generation synthetic aperture		5,500
16 LONG RANGE PRECISION FIRES TECHNOLOGY	74,327	120,327
Underexecution		-3,000
Program increase - composite cannon tubes and propulsion technology		10,000
Program increase - hybrid projectile technology		6,000
Program increase - additive manufacturing to support optimized fires		5,000
Program increase		20,000
Program increase - novel printed armament components		8,000
17 FUTURE VERTICLE LIFT TECHNOLOGY	93,601	98,359
Program increase - flight control technology safety and survivability		3,000
AI5 next gen tactical UAS demo canceled		-9,242
Program increase - rotary wing adaptive flight control technology		6,000
Program increase - technology transfer and innovation		5,000

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R-1	Budget Request	Final Bill
18 AIR AND MISSILE DEFENSE TECHNOLOGY	50,771	95,771
Program increase - sustainable energy materials and manufacturing		12,000
Program increase - high-energy laser hardware in the loop		20,000
Program increase - COE in high-energy laser and optical technology		3,000
Program increase - cybersecurity and supply chain risk management		10,000
40 MEDICAL TECHNOLOGY	99,155	112,955
Program increase - military force vector borne health protection		5,000
Program increase - heat stress on female soldiers		2,000
Program increase - burn patient transfer system		2,000
Program increase - musculoskeletal injury and bone and muscle adaptation for military physical training		4,800
42 MEDICAL ADVANCED TECHNOLOGY	42,030	83,030
Program increase - peer-reviewed neurotoxin exposure treatment Parkinson's		16,000
Program increase - peer-reviewed neurofibromatosis research		15,000
Program increase - peer-reviewed military burn research		10,000
50 ARMY ADVANCED TECHNOLOGY DEVELOPMENT	63,338	66,338
Program increase - sensor and wireless communications denial capabilities		3,000
51 SOLDIER LETHALITY ADVANCED TECHNOLOGY	118,468	135,968
Program increase - subterranean warfighter advanced technology		1,500
Program increase - rapid safe advanced materials		6,000
Program increase - multi-spectral sensor mitigation		5,000
Program increase - helmet pad suspension systems		5,000

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R-1	Budget Request	Final Bill
52 GROUND ADVANCED TECHNOLOGY	12,593	147,793
Program increase - electrical system safety and reliability		5,000
Program increase - cold regions research		5,000
Program increase - high-performance concrete technology		5,000
Program increase - lightweight airfield matting		10,000
Program increase - secure management of energy generation and storage		3,000
Program increase - rapid low energy mobile manufacturing		3,000
Program increase - composite flywheel technology		5,000
Program increase - lead-acid battery life extension		10,000
Program increase - anticipating threats to natural systems		6,000
Program increase - robotic construction equipment		9,700
Program increase - terrain conditions forecasting		3,000
Program increase - environmental sensors for explosives		3,000
Program increase - robotic 4-D printing of geopolymer-based composites		2,000
Program increase - waste to energy disposal		3,000
Program increase - advanced polymer development for force protection		4,500
Program increase - micrometeorological-soil synthetic test environment		1,000
Program increase - partnership and technology transfer		4,000
Program increase - sensor systems for underground detection		3,000
Program increase - UAS mounted hostile threat detection		5,000
Program increase - Army visual and tactical arctic reconnaissance		2,000
Program increase - heavy load simulator		6,000
Program increase - measurement and control of frozen surface properties		4,000
Program increase - resilient energy systems		2,500
Program increase - urban subterranean mapping technology		3,000
Program increase - operations in permafrost environment		4,000
Program increase - power generation technologies in cold regions		5,000
Program increase - sensing and prediction of arctic maritime coastal ice conditions		5,000
Program increase - thermosyphons		2,000
Program increase - materials and manufacturing technology for cold environments		3,500
Program increase - energy technology research in cold and arctic regions		4,000
Program increase - research facility modernization		4,000
59 C3I CYBER ADVANCED DEVELOPMENT	13,769	23,769
Program increase - high bandwidth cryptomodule enhancements		10,000
60 HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	184,755	224,755
Program increase		40,000

(75K)

	Budget Request	Final Bill
NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY		
61	160,035	260,535
Program increase - additive manufacturing for jointless hull		20,000
Program increase - carbon fiber and graphite foam technology		10,000
Program increase - hydrogen fuel cells		10,000
Program increase - ATE5.2 engine development		5,000
Program increase - additive manufacturing of critical components		5,000
Program increase - advanced water harvesting technology		5,000
Program increase - advanced high strength and lightweight steels		3,000
Program increase - combat vehicle weight reduction initiative		8,000
Program increase - virtual and physical prototyping		8,000
Program increase - HMMWV augmented reality system		5,000
Program increase - health usage monitoring system for HMMWV		3,000
Program increase - HMMWV autonomy		5,000
Program increase - HMMWV torque monitoring		2,000
Program increase - HMMWV automotive enhancements		7,500
Program increase - additive manufacturing		4,000
62	106,899	131,899
Underexecution		-3,000
Program increase - unmanned aerial systems and aerostat operations		4,000
Program increase - sensor advanced technology		10,000
Program increase - assured position, navigation, and timing		9,000
Program increase - payload and ground segment research and development for small satellite science and security applications		5,000
63	174,386	189,386
Program increase - high energy laser development		5,000
Program increase - missile rapid demonstration capability		10,000
64	151,640	174,892
Program increase - joint tactical aerial resupply vehicle		6,000
Program increase - advanced helicopter seating system		5,000
Program increase - adhesive technology		3,000
Program increase - helicopter emergency oil systems		2,000
Al6 next gen tactical UAS demo cancelled		-11,748
Program increase - UAV fuel systems enhancements		2,000
Program increase - surface tolerant advanced adhesives		5,000
Program increase - ferrium steels for improved drive systems		4,000
Program increase - stretch broken composite material forms		8,000
65	60,613	82,113
Program increase - advanced explosion resistant window systems		2,000
Program increase - silicon carbide power electronics packaging		2,500
Program increase - enterprise science and technology demonstration prototyping		7,000
Program increase - high-energy laser development for all-terrain vehicles		10,000

R-1		Budget Request	Final Bill
73	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	10,987	59,487
	Program increase - conventional mission capabilities		3,000
	Program increase - hypersonic advanced technology testbed		15,000
	Program increase - integrated environmental control and power		8,000
	Program increase - pragmatic artificial intelligence and new technology laboratory		7,500
	Program increase - hypersonic testing and related technology development		15,000
74	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	15,148	52,480
	Excess support costs		-7,668
	Program increase - artificial intelligence		10,000
	Program increase - accelerating cyber and supply chain resiliency		5,000
	Program increase - artificial intelligence and machine learning		15,000
	Program increase - joint interoperability of integrated air and missile defense center		15,000
75	LANDMINE WARFARE AND BARRIER - ADV DEV	92,915	82,915
	EK7 area denial capability development contract delay		-10,000
77	TANK AND MEDIUM CALIBER AMMUNITION	82,146	77,696
	FG1 C-DAEM concurrency		-4,450
78	ARMORED SYSTEM MODERNIZATION - ADV DEV	157,656	144,234
	Prior year carryover		-13,422
80	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - AD	34,890	27,490
	Advanced miniaturized data acquisition system contract delay		-7,400
81	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	251,011	200,791
	IVAS insufficient justification		-22,000
	BQ5 capability set 3 unit cost growth		-5,220
	BQ5 funding carryover		-21,500
	VT7 soldier maneuver sensors prior year carryover		-1,500
82	ENVIRONMENTAL QUALITY TECHNOLOGY	15,132	19,561
	Prior year carryover		-3,571
	Program increase - biopolymers for military infrastructure		3,000
	Program increase - protective coatings		5,000
84	AVIATION - ADV DEV	459,290	505,890
	Program increase - FLRAA		75,600
	FARA excess growth		-34,000
	Program increase - university partnerships		5,000
86	MEDICAL SYSTEMS - ADV DEV	31,175	36,975
	Program increase - transport telemedicine		5,800
87	SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	22,113	26,113
	Program increase - cold weather clothing		4,000
88	ROBOTICS DEVELOPMENT	115,222	84,381
	RCV phase 2 test funding ahead of need		-3,726
	RCV phase 3 funding ahead of need		-27,115

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R-1		Budget Request	Final Bill
90	ELECTRONIC WARFARE TECHNOLOGY MATURATION (MIP) Program increase - counter drone RF-signal based targeting	18,043	23,043 5,000
92	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM Program adjustment Program increase - air launched effects early systems analysis Air Launched Effects funding early to need	40,745	40,745 -5,000 10,000 -5,000
93	LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR Funds excess to requirement	427,772	379,772 -48,000
94	TECHNOLOGY MATURATION INITIATIVES Lack of defined schedule AX6 validation of APS layered protection funding ahead of need	196,676	179,676 -15,000 -2,000
95	MANEUVER - SHORT RANGE AIR DEFENSE (M-SHORAD) Program increase - proximity air burst munition Transfer from Title IX Prior year carryover due to test delay	33,100	42,900 7,500 6,000 -3,700
97	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING Classified adjustment	115,116	112,806 -2,310
99	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING SD6 synthetic training environment prior year carryover SVI soldier/squad virtual trainer funds excess to lifecycle cost estimate	136,761	103,621 -12,500 -20,640
100	HYPERSONICS Transfer from RDTE,DW line 124 Program increase Program increase - hypersonic and strategic materials and structures center of excellence	228,000	404,000 31,000 130,000 15,000
102	FUTURE INTERCEPTOR Early to need	8,000	2,000 -6,000
103	UNIFIED NETWORK TRANSPORT Early to need	39,600	29,700 -9,900
104	MOBILE MEDIUM RANGE MISSILE Excess to need	20,000	5,000 -15,000
107	ASSURED POSITIONING, NAVIGATION AND TIMING Pseudolites cancellation Excess growth	192,562	139,110 -42,452 -11,000
109	AIRCRAFT AVIONICS Degraded visual environment lack of strategy Prior year carryover	29,164	8,414 -14,500 -6,250

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R-1	Budget Request	Final Bill
110 ELECTRONIC WARFARE DEVELOPMENT	70,539	59,539
MFEW Phase II excess funding		-11,000
113 INFANTRY SUPPORT WEAPONS	106,121	87,179
Program increase - cannon life extension program		1,500
FF2 small arms fire control legacy weapons excess funding		-6,763
S63 excess new weapons systems development funding		-4,379
S64 CROWS funding excess		-9,300
114 MEDIUM TACTICAL VEHICLES	2,152	0
Prior year carryover		-2,152
115 JAVELIN	17,897	14,997
Lightweight CLU delays		-2,900
116 FAMILY OF HEAVY TACTICAL VEHICLES	16,745	13,125
Prior year carryover		-3,620
117 AIR TRAFFIC CONTROL	6,989	5,781
Prior year carryover		-1,208
118 LIGHT TACTICAL WHEELED VEHICLES	10,465	2,965
UAH redesign unjustified request		-7,500
119 ARMORED SYSTEMS MODERNIZATION - ENG DEV	310,152	285,136
Excess testing and evaluation		-6,188
Product development excess growth		-10,000
Training aids and devices development ahead of need		-6,468
Program management carryover		-2,360
120 NIGHT VISION SYSTEMS - SDD	181,732	143,696
Excess IVAS program management		-10,000
BQ6 excess test funding		-4,500
BQ6 funding carryover		-11,300
L67 Enhanced Night Vision Goggle contract delay		-5,000
L76 Lightweight Laser Designator Range Finder development funding excess to need		-5,836
L79 Joint Effects Targeting Systems prior year carryover		-1,400
121 COMBAT FEEDING, CLOTHING, AND EQUIPMENT	2,393	7,393
Program increase - icemaking capabilities		5,000
122 NON-SYSTEM TRAINING DEVICES - SDD	27,412	30,912
Program increase - RF threat emitters for Army combat training centers		3,500
123 AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD	43,502	33,502
Historical underexecution		-5,000
Program increase - multi-layered tactical protection system		5,000
ALPS lack of strategy		-10,000
127 BRILLIANT ANTI-ARMOR SUBMUNITION (BAT)	25,000	20,000
PFAL excess		-5,000

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R-1		Budget Request	Final Bill
129	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION RCO support excess	42,634	38,303 -4,331
130	WEAPONS AND MUNITIONS - SDD NGSW small caliber ammo excess growth Program increase - precision guidance aft	181,023	186,323 -4,700 10,000
131	LOGISTICS AND ENGINEER EQUIPMENT - SDD Program increase - mobile camouflage net systems Program increase - next generation HMMWV shop equipment contact maintenance vehicle EJ9 maneuver support vessel light EMD delay HO2 tactical bridging delays	103,226	107,826 7,000 5,000 -2,400 -5,000
134	LANDMINE WARFARE/BARRIER - SDD NGABS unjustified growth	39,208	37,108 -2,100
135	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE EJ5 mounted computing environment prior year carryover EJ6 tactical enhancement prior year carryover ER9 command post integrated infrastructure contract delay Program increase - ultra-mobile remote ground terminal	140,637	139,974 -2,200 -1,853 -6,610 10,000
136	RADAR DEVELOPMENT Excess A4 growth and prior year carryover	105,243	95,720 -9,523
137	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS) GFEBS prior year carryover	46,683	42,883 -3,800
139	SOLDIER SYSTEMS - WARRIOR DEM/VAL Historical underexecution	5,803	4,803 -1,000
140	SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS FE8 laser warning receiver efforts delayed Abrams V3 test funding excess Bradley delays Program increase - radar sensor technology	98,698	85,198 -5,000 -5,000 -8,500 5,000
141	ARTILLERY SYSTEMS Mobile howitzer testing early to need	15,832	10,732 -5,100
142	INFORMATION TECHNOLOGY DEVELOPMENT Historical underexecution Accessions information environment contract delay HRC accessioning IT unjustified request Army training information system unjustified growth	126,537	88,689 -10,000 -5,000 -3,848 -19,000
143	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A) Prior year carryover Program delay due to change in strategy	142,773	102,073 -14,000 -26,700

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R-1		Budget Request	Final Bill
144	ARMORED MULTI-PURPOSE VEHICLE EMD carryover Program management excess	96,730	83,830 -8,300 -4,600
151	COMMON INFRARED COUNTERMEASURES (CIRCM) Prototype manufacturing and S&T funding excess Test funding carryover	34,488	23,179 -9,010 -2,299
155	DEFENSIVE CYBER TOOL DEVELOPMENT Contract delays Excess growth	62,262	50,662 -5,000 -6,600
156	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER) Excess growth	35,654	28,404 -7,250
157	CONTRACT WRITING SYSTEM Prior year carryover	19,682	17,082 -2,600
159	AIRCRAFT SURVIVABILITY DEVELOPMENT ER7 program delay	64,557	55,057 -9,500
160	INDIRECT FIRE PROTECTION CAPABILITY INC 2 BLOCK 1 Funds excess to requirement	243,228	194,366 -48,862
161	GROUND ROBOTICS FB4 common robotic system testing previously funded FB6 SMET excess to requirement	41,308	26,104 -2,400 -12,804
162	EMERGING TECHNOLOGY INITIATIVES Optical augmentation program canceled Unjustified request Program management excess	45,896	37,696 -1,000 -2,200 -5,000
165	JOINT AIR-TO-GROUND MISSILE (JAGM) Funds excess to requirement	9,500	6,585 -2,915
166	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD) Prior year carryover due to test delays Program increase - accelerated integration to counter emerging threats	208,938	208,638 -15,300 15,000
167	MANNED GROUND VEHICLE Excess to need Program increase - tactical communications	378,400	205,620 -176,280 3,500
169	JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING Army requested transfer from OP,A line 6	2,732	7,232 4,500
174	ELECTRONIC WARFARE DEVELOPMENT Excess growth	19,675	15,232 -4,443

750

R-1		Budget Request	Final Bill
176	THREAT SIMULATOR DEVELOPMENT	14,117	42,117
	Program increase - cyber threat and vulnerability assessments		10,000
	Program increase - cyber threat simulation enhancement initiative		3,000
	Program increase - cybersecurity operations center		15,000
177	TARGET SYSTEMS DEVELOPMENT	8,327	28,327
	Program increase - UAS swarm threat and mitigation		20,000
178	MAJOR T&E INVESTMENT	136,565	146,565
	Program increase - high-powered microwave test and evaluation assets		10,000
181	CONCEPTS EXPERIMENTATION PROGRAM	42,922	36,922
	Excess growth		-6,000
183	ARMY TEST RANGES AND FACILITIES	334,468	336,468
	Program increase - soil research for Army training ranges		2,000
184	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	46,974	65,274
	Program increase - space and missile cyber security		15,000
	Program increase - expandable rotorcraft diagnostics		3,300
194	TECHNICAL INFORMATION ACTIVITIES	25,060	30,060
	Program increase - Army geospatial enterprise for integrating emerging 3D geospatial information		5,000
195	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	44,458	54,458
	Program increase - industrial base resiliency activities		5,000
	Program increase - neutron radiography technologies		5,000
198	MILITARY GROUND-BASED CREW TECHNOLOGY	4,291	2,141
	Prior year carryover		-2,150
204	MLRS PRODUCT IMPROVEMENT PROGRAM	22,877	14,615
	HIMARS excess growth		-5,262
	Prior year carryover		-3,000
209	LONG RANGE PRECISION FIRES (LRPF)	164,182	156,682
	Excess growth		-7,500
211	BLACKHAWK RECAP/MODERNIZATION	13,039	23,039
	Program increase - SATCOM technology		10,000
212	CHINOOK HELICOPTER PRODUCT IMPROVEMENT PROGRAM	174,371	168,171
	EMD unjustified growth		-10,000
	Program excess		-2,700
	Program increase - Block II lightweight improvements		6,500
213	FIXED WING AIRCRAFT	4,545	0
	Prior year carryover		-4,545

15R

R-1		Budget Request	Final Bill
	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT		
216		24,221	1,927
	Integrated munitions launcher early to need		-19,203
	Prior year carryover		-3,091
217	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	32,016	18,132
	Prior year carryover		-13,884
219	ARMY OPERATIONAL SYSTEMS DEVELOPMENT	49,526	45,026
	Classified adjustment		-4,500
221	PATRIOT PRODUCT IMPROVEMENT	96,430	87,430
	Excess growth		-9,000
223	COMBAT VEHICLE IMPROVEMENT PROGRAMS	334,463	277,633
	Program support excess growth		-2,000
	Bradley fleet enhancements early to need		-41,918
	Stryker ECP2 carryover		-10,200
	Stryker program management carryover		-2,712
225	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS	214,246	199,274
	Funding excess to requirement		-4,972
	Prior year carryover		-10,000
	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS		
226		16,486	9,278
	GPS and survivability previously funded		-4,500
	Prior year carryover		-2,708
	ENVIRONMENTAL QUALITY TECHNOLOGY - OPERATIONAL SYSTEM		
234		732	10,000
	Prior year carryover		-732
	Program increase - securing the availability of green, enhanced coatings		10,000
235	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM	107,746	97,746
	Testing excess to need		-10,000
236	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM	138,594	117,294
	Testing excess to need		-10,000
	Extended range development contract delay		-11,300
239	INFORMATION SYSTEMS SECURITY PROGRAM	29,185	25,710
	DV4 next generation load device funding ahead of need		-1,500
	DV5 crypto modernization prior year carryover		-1,975
240	GLOBAL COMBAT SUPPORT SYSTEM	68,976	60,076
	Excess to need		-2,400
	Inc 2 test funding ahead of need		-6,500
248	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	38,121	28,821
	CD2 contract delay		-6,300
	Test funding excess growth		-3,000

(758)

R-1	Budget Request	Final Bill
249 MQ-1C GRAY EAGLE	0	5,000
Program increase - additional sensor development		5,000
253 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	59,848	108,348
Program increase - technical textiles		5,000
Program increase - nanoscale materials manufacturing		12,500
Program increase - glass separators for lithium batteries		5,000
Program increase - additive manufacturing technology insertion		5,000
Program increase - power take-off hybridization		7,000
Program increase - tungsten manufacturing affordability initiative for armaments		5,000
Program increase - manufacturing technology program		5,000
Program increase - transparent armor		4,000
255 JOINT TACTICAL GROUND SYSTEM	10,275	7,677
Prior year carryover		-2,598

75T

OPTIONALLY MANNED FIGHTING VEHICLE

The agreement provides \$205,620,000 for the Optionally Manned Fighting Vehicle (OMFV), a reduction of \$172,780,000 from the budget request. It is directed that none of the funds provided may be obligated for middle tier acquisition rapid prototyping until the Secretary of the Army has provided a brief to the congressional defense committees which includes the results of the source selection process; an explanation of how program requirements were built, their traceability to the national defense strategy and multi-domain operations, and the capability gaps they address; and an updated acquisition strategy and program schedule. Given the significance of the OMFV program in support of Army modernization, it is imperative that the congressional defense committees receive timely schedule and cost information in order to make informed decisions.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

The agreement provides \$20,155,115,000 for Research, Development, Test and Evaluation, Navy, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 77A-4

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY		
BASIC RESEARCH		
1	UNIVERSITY RESEARCH INITIATIVES.....	116,850 167,850
2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	19,121 19,121
3	DEFENSE RESEARCH SCIENCES.....	470,007 463,829
	TOTAL, BASIC RESEARCH.....	605,978 650,800

APPLIED RESEARCH		
4	POWER PROJECTION APPLIED RESEARCH.....	18,546 28,546
5	FORCE PROTECTION APPLIED RESEARCH.....	119,517 215,517
6	MARINE CORPS LANDING FORCE TECHNOLOGY.....	56,604 69,104
7	COMMON PICTURE APPLIED RESEARCH.....	49,297 42,846
8	WARFIGHTER SUSTAINMENT APPLIED RESEARCH.....	63,825 95,825
9	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH.....	83,497 88,497
10	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH.....	63,894 82,582
11	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH.....	6,346 6,346
12	UNDERSEA WARFARE APPLIED RESEARCH.....	57,075 98,075
13	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH.....	154,755 152,012
14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH.....	36,074 54,074
15	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH....	153,062 152,354
16	SCIENCE AND TECHNOLOGY MANAGEMENT - ONR HEADQUARTERS..	73,961 73,961
	TOTAL, APPLIED RESEARCH.....	936,453 1,159,739

77A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
17	ADVANCED TECHNOLOGY DEVELOPMENT FORCE PROTECTION ADVANCED TECHNOLOGY.....	35,286 40,286
18	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY.....	9,499 9,499
19	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD) ..	172,847 212,347
20	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.....	13,307 13,307
21	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV.....	231,907 222,477
22	MANUFACTURING TECHNOLOGY PROGRAM.....	60,138 65,138
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY.....	4,849 34,149
25	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.....	67,739 67,739
26	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	13,335 13,335
27	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED TECHNOLOGY.	133,303 129,003
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	742,210 807,280
28	DEMONSTRATION & VALIDATION AIR/OCEAN TACTICAL APPLICATIONS.....	32,643 40,643
29	AVIATION SURVIVABILITY.....	11,919 11,919
30	AIRCRAFT SYSTEMS.....	1,473 1,473
31	ASW SYSTEMS DEVELOPMENT.....	7,172 7,172
32	TACTICAL AIRBORNE RECONNAISSANCE.....	3,419 3,419
33	ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	64,694 57,947
34	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	507,000 407,800
35	SURFACE SHIP TORPEDO DEFENSE.....	15,800 7,242
36	CARRIER SYSTEMS DEVELOPMENT.....	4,997 4,997
37	PILOT FISH.....	291,148 196,648
38	RETRACT LARCH.....	11,980 11,980
39	RETRACT JUNIPER.....	129,163 129,163
40	RADIOLOGICAL CONTROL.....	689 689
41	SURFACE ASW.....	1,137 1,137
42	ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	148,756 115,717

(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
43	SUBMARINE TACTICAL WARFARE SYSTEMS.....	11,192	11,192
44	SHIP CONCEPT ADVANCED DESIGN.....	81,846	86,846
45	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	69,084	22,534
46	ADVANCED NUCLEAR POWER SYSTEMS.....	181,652	181,652
47	ADVANCED SURFACE MACHINERY SYSTEMS.....	25,408	87,408
48	CHALK EAGLE.....	64,877	54,877
49	LITTORAL COMBAT SHIP (LCS).....	9,934	16,934
50	COMBAT SYSTEM INTEGRATION.....	17,251	17,251
51	OHIO REPLACEMENT PROGRAM.....	419,051	427,051
52	LITTORAL COMBAT SHIP (LCS) MISSION MODULES.....	108,505	108,505
53	AUTOMATED TEST AND RE-TEST.....	7,653	42,653
54	FRIGATE DEVELOPMENT.....	59,007	59,007
55	CONVENTIONAL MUNITIONS.....	9,988	9,988
56	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	86,464	51,997
57	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	33,478	33,478
58	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT.....	5,619	5,619
59	ENVIRONMENTAL PROTECTION.....	20,564	20,564
60	NAVY ENERGY PROGRAM.....	26,514	58,014
61	FACILITIES IMPROVEMENT.....	3,440	3,440
62	CHALK CORAL.....	346,800	307,392
63	NAVY LOGISTIC PRODUCTIVITY.....	3,857	3,857
64	RETRACT MAPLE.....	258,519	242,144
65	LINK PLUMERIA.....	403,909	396,509
66	RETRACT ELM.....	63,434	63,434
67	LINK EVERGREEN.....	184,110	167,735
68	NATO RESEARCH AND DEVELOPMENT.....	7,697	7,697
69	LAND ATTACK TECHNOLOGY.....	9,086	5,900
70	JOINT NONLETHAL WEAPONS TESTING.....	28,466	28,466
71	JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	51,341	51,341
72	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS.....	118,169	135,919
73	F/A-18 INFRARED SEARCH AND TRACK (IRST).....	113,456	112,416
74	DIGITAL WARFARE OFFICE.....	50,120	37,000

77C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
75	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES.....	32,527 47,261
76	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES.....	54,376 41,910
77	RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION..	36,197 31,000
78	LARGE UNMANNED UNDERSEA VEHICLES.....	68,310 68,310
79	GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER.....	121,310 105,756
80	LITTORAL AIRBORNE MCM.....	17,248 20,248
81	SURFACE MINE COUNTERMEASURES.....	18,735 18,735
82	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES.....	68,346 58,449
84	NEXT GENERATION LOGISTICS.....	4,420 19,420
85	RAPID TECHNOLOGY CAPABILITY PROTOTYPE.....	4,558 4,558
86	LX (R).....	12,500 12,500
87	ADVANCED UNDERSEA PROTOTYPING.....	181,967 187,187
88	COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS).....	5,500 3,100
89	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM.....	718,148 637,254
90	SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE..	5,263 5,263
91	OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT.....	65,419 115,419
92	ASW SYSTEMS DEVELOPMENT - MIP.....	9,991 9,991
93	ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM.....	21,157 45,407
95	ELECTRONIC WARFARE DEVELOPMENT - MIP.....	609 609
	TOTAL, DEMONSTRATION & VALIDATION.....	5,559,062 5,289,143
	ENGINEERING & MANUFACTURING DEVELOPMENT	
96	TRAINING SYSTEM AIRCRAFT.....	15,514 15,514
97	OTHER HELO DEVELOPMENT.....	28,835 38,835
98	AV-8B AIRCRAFT - ENG DEV.....	27,441 27,441
100	STANDARDS DEVELOPMENT.....	3,642 3,642
101	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT.....	19,196 19,196
104	WARFARE SUPPORT SYSTEM.....	8,601 8,601
105	TACTICAL COMMAND SYSTEM.....	77,232 73,920
106	ADVANCED HAWKEYE.....	232,752 226,596
108	H-1 UPGRADES.....	65,359 60,991
109	ACOUSTIC SEARCH SENSORS.....	47,013 47,013
110	V-22A.....	185,105 191,235
111	AIR CREW SYSTEMS DEVELOPMENT.....	21,172 19,172
112	EA-18.....	143,585 123,637

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(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
113	ELECTRONIC WARFARE DEVELOPMENT.....	116,811	114,349
114	EXECUTIVE HELO DEVELOPMENT.....	187,436	176,211
116	NEXT GENERATION JAMMER (NGJ).....	524,261	491,884
117	JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY).....	192,345	190,689
118	NEXT GENERATION JAMMER (NGJ) INCREMENT II.....	111,068	90,922
119	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING.....	415,625	375,681
120	LPD-17 CLASS SYSTEMS INTEGRATION.....	640	640
121	SMALL DIAMETER BOMB (SDB).....	50,096	50,096
122	STANDARD MISSILE IMPROVEMENTS.....	232,391	195,296
123	AIRBORNE MCM.....	10,916	10,916
124	NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG.	33,379	30,084
125	ADVANCED ABOVE WATER SENSORS.....	34,554	30,179
126	SSN-688 AND TRIDENT MODERNIZATION.....	84,663	78,625
127	AIR CONTROL.....	44,923	44,923
128	SHIPBOARD AVIATION SYSTEMS.....	10,632	14,632
129	COMBAT INFORMATION CENTER CONVERSION.....	16,094	16,094
130	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM.....	55,349	38,349
131	ADVANCED ARRESTING GEAR (AAG).....	123,490	122,495
132	NEW DESIGN SSN.....	121,010	321,010
133	SUBMARINE TACTICAL WARFARE SYSTEM.....	62,426	62,426
134	SHIP CONTRACT DESIGN/LIVE FIRE T&E.....	46,809	46,809
135	NAVY TACTICAL COMPUTER RESOURCES.....	3,692	3,692
137	MINE DEVELOPMENT.....	28,964	56,464
138	LIGHTWEIGHT TORPEDO DEVELOPMENT.....	148,349	109,349
139	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	8,237	8,237
140	USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG DEV..	22,000	20,085
141	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS....	5,500	5,500
142	JOINT STANDOFF WEAPON SYSTEMS.....	18,725	16,225
143	SHIP SELF DEFENSE (DETECT & CONTROL).....	192,603	178,603
144	SHIP SELF DEFENSE (ENGAGE: HARD KILL).....	137,268	115,130
145	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW).....	97,363	95,282
146	INTELLIGENCE ENGINEERING.....	26,710	45,610
147	MEDICAL DEVELOPMENT.....	8,181	33,181

77E

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
148	NAVIGATION/ID SYSTEM.....	40,755 45,755
149	JOINT STRIKE FIGHTER (JSF) - EMD.....	1,710 1,710
150	JOINT STRIKE FIGHTER (JSF).....	1,490 1,490
153	INFORMATION TECHNOLOGY DEVELOPMENT.....	1,494 1,494
154	INFORMATION TECHNOLOGY DEVELOPMENT.....	384,162 268,547
155	ANTI-TAMPER TECHNOLOGY SUPPORT.....	4,882 4,882
156	CH-53K.....	516,955 506,955
158	MISSION PLANNING.....	75,886 72,566
159	COMMON AVIONICS.....	43,187 37,055
160	SHIP TO SHORE CONNECTOR (SSC).....	4,909 19,909
161	T-AO (X).....	1,682 1,682
162	UNMANNED CARRIER AVIATION.....	671,258 649,055
163	JOINT AIR-TO-GROUND MISSILE (JAGM).....	18,393 18,393
165	MULTI-MISSION MARITIME AIRCRAFT (MMA).....	21,472 21,472
166	MULTI-MISSION MARITIME AIRCRAFT (MMA) INCREMENT 3.....	177,234 141,534
167	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO.....	77,322 50,137
168	JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT AND DEMO.....	2,105 2,105
169	DDG-1000.....	111,435 111,435
172	TACTICAL CRYPTOLOGIC SYSTEMS.....	101,339 91,091
173	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	26,406 19,874
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	6,332,033 6,112,602
174	RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT.....	66,678 62,678
175	TARGET SYSTEMS DEVELOPMENT.....	12,027 12,027
176	MAJOR T&E INVESTMENT.....	85,348 107,348
178	STUDIES AND ANALYSIS SUPPORT - NAVY.....	3,908 3,908
179	CENTER FOR NAVAL ANALYSES.....	47,669 47,669
180	NEXT GENERATION FIGHTER.....	20,698 7,100

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
182	TECHNICAL INFORMATION SERVICES.....	988 988
183	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT.....	102,401 113,844
184	STRATEGIC TECHNICAL SUPPORT.....	3,742 3,742
186	RDT&E SHIP AND AIRCRAFT SUPPORT.....	93,872 93,872
187	TEST AND EVALUATION SUPPORT.....	394,020 392,528
188	OPERATIONAL TEST AND EVALUATION CAPABILITY.....	25,145 25,145
189	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT.....	15,773 12,652
190	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT.....	8,402 8,402
191	MARINE CORPS PROGRAM WIDE SUPPORT.....	37,265 34,734
192	MANAGEMENT HEADQUARTERS - R&D.....	39,673 39,673
193	WARFARE INNOVATION MANAGEMENT.....	28,750 28,750
196	INSIDER THREAT.....	2,645 2,645
197	MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES).....	1,460 1,460
	TOTAL, RDT&E MANAGEMENT SUPPORT.....	990,464 999,165
	OPERATIONAL SYSTEMS DEVELOPMENT	
202	HARPOON MODIFICATIONS.....	2,302 2,302
203	F-35 C2D2.....	422,881 391,165
204	F-35 C2D2.....	383,741 354,960
205	COOPERATIVE ENGAGEMENT CAPABILITY (CEC).....	127,924 127,924
207	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT.....	157,676 125,766
208	SSBN SECURITY TECHNOLOGY PROGRAM.....	43,354 43,354
209	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT.....	6,815 6,815
210	NAVY STRATEGIC COMMUNICATIONS.....	31,174 28,674
211	F/A-18 SQUADRONS.....	213,715 187,911
213	SURFACE SUPPORT.....	36,389 34,602
214	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC) ..	320,134 273,036
215	INTEGRATED SURVEILLANCE SYSTEM.....	88,382 103,382
216	SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS.....	14,449 14,449
217	AMPHIBIOUS TACTICAL SUPPORT UNITS.....	6,931 6,931
218	GROUND/AIR TASK ORIENTED RADAR.....	23,891 28,891
219	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT.....	129,873 128,673
221	ELECTRONIC WARFARE (EW) READINESS SUPPORT.....	82,325 71,143
222	HARM IMPROVEMENT.....	138,431 132,371

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(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
224	SURFACE ASW COMBAT SYSTEM INTEGRATION.....	29,572	29,572
225	MK-48 ADCAP.....	85,973	72,265
226	AVIATION IMPROVEMENTS.....	125,461	125,461
227	OPERATIONAL NUCLEAR POWER SYSTEMS.....	106,192	106,192
228	MARINE CORPS COMMUNICATIONS SYSTEMS.....	143,317	156,307
229	COMMON AVIATION COMMAND AND CONTROL SYSTEM	4,489	4,489
230	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS....	51,788	51,788
231	MARINE CORPS COMBAT SERVICES SUPPORT.....	37,761	44,528
232	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)....	21,458	27,886
233	AMPHIBIOUS ASSAULT VEHICLE.....	5,476	5,476
234	TACTICAL AIM MISSILES.....	19,488	19,488
235	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	39,029	34,191
239	SATELLITE COMMUNICATIONS (SPACE).....	34,344	34,344
240	CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES.....	22,873	22,873
241	INFORMATION SYSTEMS SECURITY PROGRAM.....	41,853	44,853
243	JOINT MILITARY INTELLIGENCE PROGRAMS.....	8,913	8,913
244	TACTICAL UNMANNED AERIAL VEHICLES.....	9,451	9,451
245	UAS INTEGRATION AND INTEROPERABILITY.....	42,315	40,446
246	DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS....	22,042	22,042
248	MQ-4C TRITON.....	11,784	11,784
249	MQ-8 UAV.....	29,618	29,618
250	RQ-11 UAV.....	509	509
251	SMALL (LEVEL 0) TACTICAL UAS (STUASLO).....	11,545	9,410

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(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
252	RQ-21A.....	10,914	10,914
253	MULTI-INTELLIGENCE SENSOR DEVELOPMENT.....	70,612	70,612
254	UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP).....	3,704	10,004
255	RQ-4 MODERNIZATION.....	202,346	185,446
256	MODELING AND SIMULATION SUPPORT.....	7,119	12,119
257	DEPOT MAINTENANCE (NON-IF).....	38,182	58,182
258	MARITIME TECHNOLOGY (MARITECH).....	6,779	26,779
259	SATELLITE COMMUNICATIONS (SPACE).....	15,868	15,868
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	3,491,162	3,364,159
9999	CLASSIFIED PROGRAMS.....	1,613,137	1,772,227
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY.....	20,270,499	20,155,115

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
1 UNIVERSITY RESEARCH INITIATIVES	116,850	167,850
Program increase - university research initiatives		20,000
Program increase - defense university research instrumentation program		10,000
Program increase - multi-disciplinary university research initiative program		5,000
Program increase - advanced digital radars		8,000
Program increase - aircraft fleet readiness and sustainment		8,000
3 DEFENSE RESEARCH SCIENCES	470,007	463,829
Mathematics, computer, and information sciences unjustified growth		-11,678
Program increase - Navy ROTC cybersecurity training program		5,500
4 POWER PROJECTION APPLIED RESEARCH	18,546	28,546
Program increase - microwave systems for counter-UAS defense		10,000
5 FORCE PROTECTION APPLIED RESEARCH	119,517	215,517
Program increase - energy resilience efforts		8,000
Program increase - coastal environmental research		5,000
Program increase - power generation and storage research		5,000
Program increase - platform reliability and advanced technical research		3,500
Program increase - advanced energetics research		10,000
Program increase - electric propulsion for military craft and advanced planing hulls		5,000
Program increase - hybrid composite structures research for enhanced mobility		5,000
Program increase - test bed for autonomous ship systems		4,000
Program increase - talent and technology for Navy power and energy systems		9,500
Program increase - compact high flow fan		4,000
Program increase - network cyber security and resiliency		4,000
Program increase - Navy alternative energy research, development, testing and deployment		20,000
Program increase - data-model fusion for naval platforms and systems		5,000
Program increase - blue carbon capture/direct air capture		8,000
6 MARINE CORPS LANDING FORCE TECHNOLOGY	56,604	69,104
Program increase		5,000
Program increase - interdisciplinary expeditionary cybersecurity research		7,500
7 COMMON PICTURE APPLIED RESEARCH	49,297	42,846
Applied information sciences for decision making excess growth		-6,451

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R-1	Budget Request	Final Bill
8 WARFIGHTER SUSTAINMENT APPLIED RESEARCH	63,825	95,825
Program increase - laser peening technology		4,000
Program increase - lightweight anti-corrosion nanotechnology coating enhancement		5,000
Program increase - polymer coatings for reduced ice and fouling adhesion		6,000
Program increase - undersea domain human performance requirements		3,000
Program increase - engineered systems to prevent hearing loss		5,000
Program increase - extreme environment warfighter safety research		4,000
Program increase - female musculoskeletal research		5,000
9 ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	83,497	88,497
Program increase - electromagnetic systems applied research		5,000
10 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	63,894	82,582
Unjustified growth		-3,812
Program increase - naval special warfare		10,000
Program increase - task force ocean		10,000
Program increase - arctic geospatial information		2,500
12 UNDERSEA WARFARE APPLIED RESEARCH	57,075	98,075
Program increase - undersea sensing and communications		5,000
Program increase - energetics and warhead technology development		8,000
Program increase - Navy and academia submarine partnerships		10,000
Program increase - machine discovery and invention		4,000
Program increase - instrumented tow cable		5,000
Program increase - Navy undersea warfare science and technology strategy		2,000
Program increase - autonomous undersea robotics systems		7,000
13 FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	154,755	152,012
Sea warfare and weapons excess growth		-4,183
Advanced analytics and decision making unjustified growth		-2,560
Program increase - C4ISR and special projects		4,000
14 MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	36,074	54,074
Program increase - underwater mine defeat capabilities urgent operational need		10,000
Program increase - clandestine mine neutralization		8,000
15 INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH	153,062	152,354
Artificial intelligence excess growth		-2,974
Cyber excess growth		-3,734
Program increase - thermoplastic carbon-fiber composite materials research		4,000
Program increase - thermoplastic tailorable universal feedstock composites		2,000
17 FORCE PROTECTION ADVANCED TECHNOLOGY	35,286	40,286
Program increase - additive manufacturing for functional alloys		5,000

(740)

R-1	Budget Request	Final Bill
MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION		
19 (ATD)	172,847	212,347
Program increase - robotic protection system		5,000
Program increase - expeditionary mission planning enabled by high fidelity simulation		10,000
Program increase - extended range 155mm projectile		2,500
Program increase - adaptive threat force		7,000
Program increase - air drop extended range munitions		15,000
21 FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV	231,907	222,477
Expeditionary maneuver warfare excess growth		-8,280
Surface warfare excess growth		-2,350
Program increase - automated critical care system		1,200
22 MANUFACTURING TECHNOLOGY PROGRAM	60,138	65,138
Program increase - modern shipbuilding manufacturing		5,000
23 WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,849	34,149
Program increase - bone marrow registry program		24,300
Program increase - novel therapeutic interventions research		5,000
INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED		
27 TECHNOLOGY	133,303	129,003
Artificial intelligence excess growth		-3,189
Funds excess to requirements		-9,111
Program increase - advanced thermal and power technology for improved DEW SWAP		8,000
28 AIR/OCEAN TACTICAL APPLICATIONS	32,643	40,643
Program increase - long duration autonomous hydrographic survey		8,000
33 ADVANCED COMBAT SYSTEMS TECHNOLOGY	64,694	57,947
Project 3438 HIJENKS concurrency		-3,197
Project 3422 unit cost growth and excessive continuous prototyping		-3,550
34 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	507,000	407,800
Project 3066 long lead material early to need		-79,200
Project 3066 - initial incremental non-VLS concept design only		-20,000
35 SURFACE SHIP TORPEDO DEFENSE	15,800	7,242
Excess sundown costs		-8,558
37 PILOT FISH	291,148	196,648
Program adjustment		-94,500

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R-1	Budget Request	Final Bill
42 ADVANCED SUBMARINE SYSTEM DEVELOPMENT	148,756	115,717
Project 2033 contract delays		-575
Project 3391 contract delays		-640
Project 9710 unjustified new start		-9,790
Project 9710 lack of acquisition strategies		-28,899
Project 2096 material purchases growth early to need		-3,135
Program increase - small business technology insertion		10,000
44 SHIP CONCEPT ADVANCED DESIGN	81,846	86,846
Program increase - additive manufacturing		5,000
45 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	69,084	22,534
Future surface combatant concept development early to need		-46,550
47 ADVANCED SURFACE MACHINERY SYSTEMS	25,408	87,408
Program increase - silicon carbide power modules		7,000
Program increase - advanced power electronics integration		5,000
Program increase - surface combatant component-level prototyping		50,000
48 CHALK EAGLE	64,877	54,877
Insufficient budget justification		-10,000
49 LITTORAL COMBAT SHIP (LCS)	9,934	16,934
Program increase - integrated fire control land-based test asset		7,000
51 OHIO REPLACEMENT PROGRAM	419,051	427,051
Program increase - materials for submarine propulsor applications		8,000
53 AUTOMATED TEST AND RE-TEST	7,653	42,653
Program increase - ONR CTE		35,000
56 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	86,464	51,997
Project 1558 concurrency/prototype manufacturing early to need		-6,000
Project 1558 excess program management		-1,387
Project 1964 unjustified request		-980
Project 2614 unjustified request		-500
Project 7400 NMESIS Phase 1a excess to need and future improvements		-15,400
Project 7400 sea mob amphibious reconnaissance capability product development		-10,200
60 NAVY ENERGY PROGRAM	26,514	58,014
Program increase		15,000
Program increase - marine energy systems for sensors and microgrids		11,500
Program increase - navy energy program/shore energy		5,000
62 CHALK CORAL	346,800	307,392
Program adjustment		-39,408
64 RETRACT MAPLE	258,519	242,144
Program adjustment		-16,375

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R-1	Budget Request	Final Bill
65 LINK PLUMERIA	403,909	396,509
Program adjustment		-7,400
67 LINK EVERGREEN	184,110	167,735
Program adjustment		-16,375
69 LAND ATTACK TECHNOLOGY	9,086	5,900
Project 3401 lack of acquisition strategy		-3,186
72 DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	118,169	135,919
Project 2731 test and evaluation early to need		-2,250
Program increase - high energy laser weapon system for counter-UAS area defense		10,000
Program increase - railgun		10,000
73 F/A-18 INFRARED SEARCH AND TRACK (IRST)	113,456	112,416
Hardware development contract delay		-1,040
74 DIGITAL WARFARE OFFICE	50,120	37,000
Project 3255 unjustified request		-10,000
Project 3425 unjustified growth		-3,120
75 SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES	32,527	47,261
Navy requested transfer from OPN line 30 only for MCM UUV UON		14,734
76 UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	54,376	41,910
Project 4053 duplicative efforts		-12,466
RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION	36,197	31,000
Unjustified request		-5,197
79 GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER	121,310	105,756
Integrated digital shipbuilding insufficient budget justification		-9,000
Revised test schedule		-6,554
80 LITTORAL AIRBORNE MCM	17,248	20,248
Program increase - coastal battlefield reconnaissance and analysis system		3,000
82 TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	68,346	58,449
Project 3348 product development previously funded		-9,897
84 NEXT GENERATION LOGISTICS	4,420	19,420
Program increase - construction robotics		5,000
Program increase - large-scale 3D printing robotic system		10,000
87 ADVANCED UNDERSEA PROTOTYPING	181,967	187,187
Testing early to need		-2,250
Dual-vendor award acquisition strategy		-7,530
Program increase - XLUUV competitive risk reduction		15,000

(74N)

R-1	Budget Request	Final Bill
88 COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS) System development duplication	5,500	3,100 -2,400
89 PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM Conventional prompt global strike unexecutable growth	718,148	637,254 -80,894
91 OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT Program increase - LRASM 1.1 capability improvements	65,419	115,419 50,000
93 ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM Project 3135 acquisition and funding strategy Program increase - mobile unmanned/manned distributed lethality airborne network and fused integrated naval network Program increase - large unmanned logistics systems air development	21,157	45,407 -8,250 14,000 18,500
97 OTHER HELO DEVELOPMENT Program increase - attack and utility helicopter replacement	28,835	38,835 10,000
105 TACTICAL COMMAND SYSTEM Project 2345 duplicative efforts Naval operational supply system previously funded	77,232	73,920 -72 -3,240
106 ADVANCED HAWKEYE Data fusion schedule delays Counter electronic attack early to need Theater combat identification early to need ALQ-217 electronic support measures upgrade and survivability early to need Program increase - E-2D Hawkeye radar	232,752	226,596 -2,473 -4,720 -7,043 -3,920 12,000
108 H-1 UPGRADES Weapons and sensors testing and integration unjustified growth	65,359	60,991 -4,368
110 V-22A V-22 multi-spectral sensor/helmet mounted display previously funded Program increase - active vibration control system Program increase - common lightweight cargo system	185,105	191,235 -7,220 5,000 8,350
111 AIR CREW SYSTEMS DEVELOPMENT Schedule delays	21,172	19,172 -2,000
112 EA-18 EA-18G design and avionics integration unjustified growth	143,585	123,637 -19,948
113 ELECTRONIC WARFARE DEVELOPMENT Jammer techniques optimization excess growth Software reprogrammable payload unjustified growth	116,811	114,349 -1,634 -828

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R-1	Budget Request	Final B:!!
114 EXECUTIVE HELO DEVELOPMENT	187,436	176,211
VH-92A improvements early to need		-11,225
116 NEXT GENERATION JAMMER (NGJ)	524,261	491,884
Hardware procurement contract delays		-15,919
Test and evaluation delays		-16,458
117 JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY)	192,345	190,689
Network tactical common data link excess growth		-1,656
118 NEXT GENERATION JAMMER (NGJ) INCREMENT II	111,068	90,922
Systems engineering failure to comply with congressional direction		-9,568
Aircraft integration early to need		-7,190
Change in acquisition strategy		-3,388
119 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	415,625	375,681
Aegis development support studies and analysis early to need		-1,941
Combat systems test bed build 4 early to need		-2,978
Aegis BL 9 unjustified scope expansion		-35,025
122 STANDARD MISSILE IMPROVEMENTS	232,391	195,296
Project 0439 schedule delays		-5,000
Project 2063 contract award delays		-39,095
Program increase - advanced carbon nanotube materials research		7,000
NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS		
124 ENG	33,379	30,084
Project 3159 contract delays		-3,295
125 ADVANCED ABOVE WATER SENSORS	34,554	30,179
Project 3408 concurrency		-4,375
126 SSN-688 AND TRIDENT MODERNIZATION	84,663	78,625
Project 0775 future efforts early to need		-6,038
128 SHIPBOARD AVIATION SYSTEMS	10,632	14,632
Program increase - aircraft launch and recovery equipment software improvements		4,000
130 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	55,349	38,349
Engineering changes testing and evaluation early to need		-3,000
Advanced distributed radar development and integration concurrency		-14,000
131 ADVANCED ARRESTING GEAR (AAG)	123,490	122,495
AAG training schedule delay		-995
132 NEW DESIGN SSN	121,010	321,010
Transfer from SC,N line 3 for design risk reduction		100,000
Transfer from SC,N line 3 for future capability development		100,000

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R-1	Budget Request	Final Bill
137 MINE DEVELOPMENT	28,964	56,464
Program increase - quick strike joint direct attack munition		27,500
138 LIGHTWEIGHT TORPEDO DEVELOPMENT	148,349	109,349
Project 3418 program delays		-39,000
USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS - ENG		
140 DEV	22,000	20,085
Testing early to need		-1,915
142 JOINT STANDOFF WEAPON SYSTEMS	18,725	16,225
Support excess to need		-2,500
143 SHIP SELF DEFENSE (DETECT & CONTROL)	192,603	178,603
Project 2178 CSEA contract award delays		-14,000
144 SHIP SELF DEFENSE (ENGAGE: HARD KILL)	137,268	115,130
Project 0173 block 2 obsolescence and redesign early to need		-5,000
MK 73 tracker-illuminator unjustified new start		-1,500
Project 2070 excess test assets		-15,638
145 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	97,363	95,282
Project 3316 testing delays		-2,081
146 INTELLIGENCE ENGINEERING	26,710	45,610
Program increase - countermeasure development		3,900
Program increase - command and control satellite systems cyber security		15,000
147 MEDICAL DEVELOPMENT	8,181	33,181
Program increase - wound care research		10,000
Program increase - military dental research		10,000
Program increase - physiological episodes research		5,000
148 NAVIGATION/ID SYSTEM	40,755	45,755
Program increase - development of lightweight security Identification Friend or Foe transmitter		5,000
154 INFORMATION TECHNOLOGY DEVELOPMENT	384,162	268,547
Electronic procurement system contract award delay		-11,877
Single point of entry contract award delay		-9,869
Navy personnel and pay - rapid fielding prototype concurrency		-51,805
NMMES-TR excess growth		-14,767
Aviation logistics environment contract delay		-14,703
Dynamic scheduling unjustified request		-2,038
Vector unjustified request		-1,676
Execution delays		-16,880
Program increase - NAVSEA readiness and logistics information technology digital transformation plan		8,000

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R-1	Budget Request	Final Bill
156 CH-53K	516,955	506,955
Early to need		-10,000
158 MISSION PLANNING	75,886	72,566
CMBRE excess support costs		-3,320
159 COMMON AVIONICS	43,187	37,055
Ground proximity warning system/terrain awareness warning system previously funded		-1,675
Avionics architectures team unjustified growth		-4,457
160 SHIP TO SHORE CONNECTOR (SSC)	4,909	19,909
Program increase - advanced materials and manufacturing for naval hovercraft applications		15,000
162 UNMANNED CARRIER AVIATION	671,258	649,055
Test and evaluation prior year carryover		-8,043
UMCS excess to need/unjustified growth		-14,160
166 MULTI-MISSION MARITIME AIRCRAFT (MMA) INCREMENT 3	177,234	141,534
ECP concurrency - ECP 7 early to need		-15,700
Engineering change proposal 6 unjustified increase		-28,000
Program increase - SBIR technology insertion		8,000
MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT		
167 AND DEMO	77,322	50,137
Design concurrency for additional ACV variants		-6,985
Procurement of ACV-30 variants early to need		-18,500
Technical support acceleration		-1,700
172 TACTICAL CRYPTOLOGIC SYSTEMS	101,339	91,091
SSEE Inc F previously funded		-1,700
Spectral delays		-8,548
173 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	26,406	19,874
Common access platform early to need		-6,532
174 THREAT SIMULATOR DEVELOPMENT	66,678	62,678
Insufficient budget justification - classified program reduction		-4,000
176 MAJOR T&E INVESTMENT	85,348	107,348
Program increase - undersea range modernization		4,000
Program increase - fifth generation radar ground test upgrades		8,000
Program increase - complex electronic warfare test equipment		5,000
Program increase - naval research laboratory facilities		5,000
180 NEXT GENERATION FIGHTER	20,698	7,100
Next gen advanced engines funding early to need		-13,598

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R-1	Budget Request	Final Bill
183 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	102,401	113,844
MTMD excess growth		-3,557
Program increase - printed circuit board executive agent		15,000
187 TEST AND EVALUATION SUPPORT	394,020	392,528
Project 3386 prior year carryover		-1,492
189 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT	15,773	12,652
Project 3239 unjustified growth		-3,121
191 MARINE CORPS PROGRAM WIDE SUPPORT	37,265	34,734
Project 3009 unjustified growth		-2,531
203 F-35 C2D2	422,881	391,165
Prior year execution delays		-31,716
204 F-35 C2D2	383,741	354,960
Prior year execution delays		-28,781
207 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	157,676	125,766
Project 2228 D5LE2 technology maturation concurrency with system architecture and trade analysis		-49,910
Program increase - next generation strategic inertial measurement unit		6,000
Program increase - high temperature composite material capacity expansion		12,000
210 NAVY STRATEGIC COMMUNICATIONS	31,174	28,674
Project 2959 - E6B technical analysis and risk reduction schedule delays		-2,500
211 F/A-18 SQUADRONS	213,715	187,911
F/A-18 Block III support prior year carryover		-7,804
Project 1662 USMC capability upgrades undefined requirement		-20,000
Program increase - noise reduction research		2,000
213 SURFACE SUPPORT	36,389	34,602
Military GPS user equipment previously funded		-1,787
214 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER	320,134	273,036
Maritime strike schedule delays		-35,000
JMEWS schedule delays		-12,098
215 INTEGRATED SURVEILLANCE SYSTEM	88,382	103,382
Program increase - transformational reliable acoustic path systems		15,000
218 GROUND/AIR TASK ORIENTED RADAR	23,891	28,891
Program increase - low, slow, small targets		5,000
219 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	129,873	128,673
Project 3356 LCS Navy training system plan execution early to need		-1,200
221 ELECTRONIC WARFARE (EW) READINESS SUPPORT	82,325	71,143
Prior year carryover		-11,182

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R-1	Budget Request	Final Bill
222 HARM IMPROVEMENT	138,431	132,371
AARGM ER test schedule discrepancy		-6,060
225 MK-48 ADCAP	85,973	72,265
TI-1 hardware development prior year carryover		-13,708
228 MARINE CORPS COMMUNICATIONS SYSTEMS	143,317	156,307
Program increase - multi function electronic warfare		8,600
Program increase - shipboard integration and AI networking/NOTM		4,390
231 MARINE CORPS COMBAT SERVICES SUPPORT	37,761	44,528
Project 2510 prior year carryover		-1,233
Program increase - airborne power generation technology		5,000
Program increase - UAV alternative power generation technologies		3,000
232 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)	21,458	27,886
Program increase - advanced electronic warfare digital payload		6,428
235 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	39,029	34,191
System improvement program efforts prior year carryover		-4,838
241 INFORMATION SYSTEMS SECURITY PROGRAM	41,853	44,853
Program increase - high assurance infrastructure in defense systems		3,000
245 UAS INTEGRATION AND INTEROPERABILITY	42,315	40,446
Increment III early to need		-1,869
251 SMALL (LEVEL 0) TACTICAL UAS (STUASL0)	11,545	9,410
Lack of requirement		-2,135
254 UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP)	3,704	10,004
Program increase - spectral and reconnaissance imagery for tactical exploitation		6,300
255 RQ-4 MODERNIZATION	202,346	185,446
IFC 5.0 concurrency		-16,900
256 MODELING AND SIMULATION SUPPORT	7,119	12,119
Program increase - joint simulation environment		5,000

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R-1	Budget Request	Final Bill
257 DEPOT MAINTENANCE (NON-IF)	38,182	58,182
Program increase - MH-60 NRE		10,000
Program increase - high pressure cold spray systems		10,000
258 MARITIME TECHNOLOGY (MARITECH)	6,779	26,779
Program increase - advanced additive technologies for sustainment of Navy assets		20,000
999 CLASSIFIED PROGRAMS	1,613,137	1,772,227
Classified adjustments		129,090
Program increase - Marine Corps modernization for C2 in a degraded environment		30,000

7/10

LARGE UNMANNED SURFACE VESSELS

The agreement recommends \$209,200,000 to fully fund two Large Unmanned Surface Vessels (LUSVs), as requested in the fiscal year 2020 budget. The Secretary of the Navy is directed to comply with the full funding policy for LUSVs in future budget submissions. Further, the agreement recommends \$50,000,000 for the design of future LUSVs without a vertical launch system capability in fiscal year 2020. Incremental upgrade capability for a vertical launch system may be addressed in future fiscal years. It is directed that no funds may be awarded for the conceptual design of future LUSVs until the Assistant Secretary of the Navy (Research, Development and Acquisition) briefs the congressional defense committees on the updated acquisition strategy for unmanned surface vessels.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

The agreement provides \$45,566,955,000 for Research, Development, Test and Evaluation, Air Force, as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

Insert 79A-Q

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE		
BASIC RESEARCH		
1	DEFENSE RESEARCH SCIENCES.....	356,107 356,107
2	UNIVERSITY RESEARCH INITIATIVES.....	158,859 178,859
3	HIGH ENERGY LASER RESEARCH INITIATIVES.....	14,795 14,795
	TOTAL, BASIC RESEARCH.....	529,761 549,761
APPLIED RESEARCH		
4	MATERIALS.....	128,851 215,851
5	AEROSPACE VEHICLE TECHNOLOGIES.....	147,724 157,724
6	HUMAN EFFECTIVENESS APPLIED RESEARCH.....	131,795 134,795
7	AEROSPACE PROPULSION.....	198,775 226,775
8	AEROSPACE SENSORS.....	202,912 219,912
9	SCIENCE AND TECHNOLOGY MANAGEMENT - MAJOR HEADQUARTERS	7,968 7,968
12	CONVENTIONAL MUNITIONS.....	142,772 142,772
13	DIRECTED ENERGY TECHNOLOGY.....	124,379 124,379
14	DOMINANT INFORMATION SCIENCES AND METHODS.....	181,562 216,062
15	HIGH ENERGY LASER RESEARCH.....	44,221 48,221
16	SPACE TECHNOLOGY.....	124,667 161,667
	TOTAL, APPLIED RESEARCH.....	1,435,626 1,656,126
ADVANCED TECHNOLOGY DEVELOPMENT		
17	ADVANCED MATERIALS FOR WEAPON SYSTEMS.....	36,586 60,086
18	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T).....	16,249 16,249
19	ADVANCED AEROSPACE SENSORS.....	38,292 42,292
20	AEROSPACE TECHNOLOGY DEV/DEMO.....	102,949 227,949
21	AEROSPACE PROPULSION AND POWER TECHNOLOGY.....	113,973 170,973
22	ELECTRONIC COMBAT TECHNOLOGY.....	48,408 48,408
23	ADVANCED SPACECRAFT TECHNOLOGY.....	70,525 80,525
24	MAUI SPACE SURVEILLANCE SYSTEM (MSSS).....	11,878 11,878
25	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT...	37,542 37,542

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(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
26	CONVENTIONAL WEAPONS TECHNOLOGY.....	225,817	225,817
27	ADVANCED WEAPONS TECHNOLOGY.....	37,404	37,404
28	MANUFACTURING TECHNOLOGY PROGRAM.....	43,116	130,916
29	BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION.....	56,414	56,414
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	839,153	1,146,453
31	ADVANCED COMPONENT DEVELOPMENT INTELLIGENCE ADVANCED DEVELOPMENT.....	5,672	5,672
32	COMBAT IDENTIFICATION TECHNOLOGY.....	27,085	32,085
33	NATO RESEARCH AND DEVELOPMENT.....	4,955	4,955
34	IBCM DLM/VAL.....	44,109	30,969
35	POLLUTION PREVENTION-DEM/VAL.....	---	3,000
36	AIR FORCE WEATHER SERVICES RESEARCH.....	772	772
37	ADVANCED ENGINE DEVELOPMENT.....	878,442	671,442
38	LONG RANGE STRIKE.....	3,003,899	2,982,499
39	DIRECTED ENERGY PROTOTYPING.....	10,000	44,000
40	HYPERSONICS PROTOTYPING.....	576,000	576,000
41	INTEGRATED AVIONICS PLANNING AND DEVELOPMENT.....	92,600	124,600
42	ADVANCED TECHNOLOGY AND SENSORS.....	23,145	23,145
43	NATIONAL AIRBORNE OPS CENTER (NAOC) RECAP.....	16,669	12,669
44	TECHNOLOGY TRANSFER.....	23,614	37,614
45	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM.....	113,121	113,121
46	CYBER RESILIENCY OF WEAPON SYSTEMS-ACS.....	56,325	56,325
47	DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D.....	28,034	28,034
48	TECH TRANSITION PROGRAM.....	128,476	188,476
49	GROUND BASED STRATEGIC DETERRENT.....	570,373	557,495
50	LIGHT ATTACK ARMED RECONNAISSANCE (LAAR) SQUADRONS....	35,000	2,000
51	NEXT GENERATION AIR DOMINANCE.....	1,000,000	905,000
52	THREE DIMENSIONAL LONG-RANGE RADAR.....	37,290	23,190
53	UNIFIED PLATFORM (UP).....	10,000	10,000
54	COMMON DATA LINK EXECUTIVE AGENT (CDL EA).....	36,910	36,910
55	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT.....	35,000	35,000
56	MISSION PARTNER ENVIRONMENTS.....	8,550	8,550
57	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	198,864	202,364
58	ENABLED CYBER ACTIVITIES.....	16,632	16,632

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
60	CONTRACTING INFORMATION TECHNOLOGY SYSTEM.....	20,830 20,830
61	GLOBAL POSITIONING SYSTEM USER EQUIPMENT (SPACE).....	329,948 320,598
62	EO/IR WEATHER SYSTEMS.....	101,222 125,964
63	WEATHER SYSTEM FOLLOW-ON.....	225,660 205,660
64	SPACE SITUATION AWARENESS SYSTEMS.....	29,776 29,776
65	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT).....	142,045 142,045
67	SPACE CONTROL TECHNOLOGY.....	64,231 58,231
68	SPACE SECURITY AND DEFENSE PROGRAM.....	56,385 56,385
69	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES).....	105,003 105,003
70	PROTECTED TACTICAL SERVICE (PTS).....	173,694 163,694
71	EVOLVED STRATEGIC SATCOM (ESS).....	172,206 167,206
72	SPACE RAPID CAPABILITIES OFFICE.....	33,742 9,000
	TOTAL, ADVANCED COMPONENT DEVELOPMENT.....	8,436,279 8,136,911
	ENGINEERING & MANUFACTURING DEVELOPMENT	
73	FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS.....	246,200 5,000
74	INTEGRATED AVIONICS PLANNING AND DEVELOPMENT.....	67,782 142,782
75	NUCLEAR WEAPONS SUPPORT.....	4,406 4,406
76	ELECTRONIC WARFARE DEVELOPMENT.....	2,066 2,066
77	TACTICAL DATA NETWORKS ENTERPRISE.....	229,631 189,631
78	PHYSICAL SECURITY EQUIPMENT.....	9,700 9,700
79	SMALL DIAMETER BOMB (SDB).....	31,241 45,241
80	AIRBORNE ELECTRONIC ATTACK.....	2 ---
81	ARMAMENT/ORDNANCE DEVELOPMENT.....	28,043 28,043
82	SUBMUNITIONS.....	3,045 3,045
83	AGILE COMBAT SUPPORT.....	19,944 26,944
84	LIFE SUPPORT SYSTEMS.....	8,624 14,624
85	COMBAT TRAINING RANGES.....	37,365 52,365
86	F-35 - EMD.....	7,628 7,628
87	LONG RANGE STANDOFF WEAPON.....	712,539 712,539
88	ICBM FUZE MODERNIZATION.....	161,199 161,199
89	JOINT TACTICAL NETWORK CENTER (JTNC).....	2,414 2,414
91	OPEN ARCHITECTURE MANAGEMENT.....	30,000 30,000
93	KC-46.....	59,561 59,561

(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
94	ADVANCED PILOT TRAINING.....	348,473	340,373
95	COMBAT RESCUE HELICOPTER.....	247,047	247,047
98	B-2 DEFENSIVE MANAGEMENT SYSTEM.....	294,400	250,100
99	NUCLEAR WEAPONS MODERNIZATION.....	27,564	27,564
100	MINUTEMAN SQUADRONS.....	1	---
101	F-15 EPAWSS.....	47,322	47,322
102	STAND IN ATTACK WEAPON.....	162,840	162,840
103	FULL COMBAT MISSION TRAINING.....	9,797	9,797
106	C-32 EXECUTIVE TRANSPORT RECAPITALIZATION.....	9,930	9,930
107	PRESIDENTIAL AIRCRAFT REPLACEMENT.....	757,923	757,923
108	AUTOMATED TEST SYSTEMS.....	2,787	2,787
109	COMBAT SURVIVOR EVADER LOCATOR.....	2,000	2,000
110	GPS III FOLLOW ON (GPS IIIF).....	462,875	447,875
111	SPACE SITUATION AWARENESS OPERATIONS.....	76,829	56,829
112	COUNTERSPACE SYSTEMS.....	29,037	27,037
113	WEATHER SYSTEM FOLLOW-ON.....	2,237	2,237
114	SILENT BARKER.....	412,894	362,894
116	ADVANCED EHF MILSATCOM (SPACE).....	117,290	117,290
117	POLAR MILSATCOM (SPACE).....	427,400	412,400
118	WIDEBAND GLOBAL SATCOM (SPACE).....	1,920	1,920
119	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD.....	1	1
120	EVOLVED SBIRS (NEXT - GENERATION OPIR).....	1,395,278	1,470,278
121	COMMERCIAL SATCOM	---	5,000
122	NATIONAL SECURITY SPACE LAUNCH EMD.....	432,009	432,009
122A	TACTICALLY RESPONSIVE LAUNCH OPERATIONS.....	---	19,000
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	6,929,244	6,709,641

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
123 RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT.....	59,693	59,693
124 MAJOR T&E INVESTMENT.....	181,663	106,663
125 RAND PROJECT AIR FORCE.....	35,258	35,258
127 INITIAL OPERATIONAL TEST & EVALUATION.....	13,793	13,793
128 TEST AND EVALUATION SUPPORT.....	717,895	717,895
129 ACQ WORKFORCE- GLOBAL POWER.....	258,667	255,667
130 ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS.....	251,992	249,992
131 ACQ WORKFORCE- GLOBAL REACH.....	149,191	149,191
132 ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS.....	235,360	235,360
133 ACQ WORKFORCE- GLOBAL BATTLE MGMT.....	160,196	160,196
134 ACQ WORKFORCE- CAPABILITY INTEGRATION.....	220,255	228,255
135 ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY.....	42,392	39,392
136 ACQ WORKFORCE- NUCLEAR SYSTEMS.....	133,231	133,231
137 MANAGEMENT HQ - R&D.....	5,590	5,590
138 FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL..	88,445	88,445
139 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT..	29,424	29,424
140 REQUIREMENTS ANALYSIS AND MATURATION.....	62,715	86,715
141 MANAGEMENT HQ - T&E.....	5,013	5,013
142 ENTERPRISE INFORMATION SERVICES (EIS).....	17,128	10,628
143 ACQUISITION AND MANAGEMENT SUPPORT.....	5,913	5,913
144 GENERAL SKILL TRAINING.....	1,475	6,475
146 INTERNATIONAL ACTIVITIES.....	4,071	4,071
147 SPACE TEST AND TRAINING RANGE DEVELOPMENT.....	19,942	14,942
148 SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE.....	167,810	167,810
149 SPACE & MISSILE SYSTEMS CENTER - MHA.....	10,170	10,170
150 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE).....	13,192	13,192
151 SPACE TEST PROGRAM (STP).....	26,097	26,097
TOTAL, RDT&E MANAGEMENT SUPPORT.....	2,916,571	2,859,071

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
152	OPERATIONAL SYSTEMS DEVELOPMENT ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS).....	35,611 43,611
154	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING.....	2,584 2,584
155	WIDE AREA SURVEILLANCE.....	--- 20,000
156	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D.....	903 903
157	F-35 C2D2.....	694,455 642,371
158	AIR FORCE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM..	40,567 40,567
159	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY.....	47,193 47,193
160	FOREIGN MATERIEL ACQUISITION AND EXPLOITATION.....	70,083 70,083
161	HC/MC-130 RECAP RDT&E.....	17,218 17,218
162	NC3 INTEGRATION.....	25,917 25,917
164	B-52 SQUADRONS.....	325,974 323,624
165	AIR-LAUNCHED CRUISE MISSILE (ALCM).....	10,217 10,217
166	B-1B SQUADRONS.....	1,000 1,000
167	B-2 SQUADRONS.....	97,276 93,076
168	MINUTEMAN SQUADRONS.....	128,961 104,219
170	WORLDWIDE JOINT STRATEGIC COMMUNICATIONS.....	18,177 26,177
171	INTEGRATED STRATEGIC PLANNING & ANALYSIS NETWORK.....	24,261 24,261
172	ICBM REENTRY VEHICLES.....	75,571 65,671
174	UH-1N REPLACEMENT PROGRAM.....	170,975 170,975
176	MQ-9 UAV.....	154,996 127,296
178	A-10 SQUADRONS.....	36,816 31,916
179	F-16 SQUADRONS.....	193,013 193,013
180	F-15E SQUADRONS.....	336,079 684,229
181	MANNED DESTRUCTIVE SUPPRESSION.....	15,521 15,521
182	F-22 SQUADRONS.....	496,298 546,298
183	F-35 SQUADRONS.....	99,943 99,943
184	TACTICAL AIM MISSILES.....	10,314 10,314
185	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	55,384 55,384
186	COMBAT RESCUE - PARARESCUE.....	281 281
187	AF TENCAP.....	21,365 21,365
188	PRECISION ATTACK SYSTEMS PROCUREMENT.....	10,696 10,696
189	COMPASS CALL.....	15,888 31,888
190	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	112,505 112,505

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(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
191	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM).....	78,498	78,498
192	AIR AND SPACE OPERATIONS CENTER (AOC).....	114,864	114,864
193	CONTROL AND REPORTING CENTER (CRC).....	8,109	8,109
194	AIRBORNE WARNING AND CONTROL SYSTEM (AWACS).....	67,996	67,996
195	TACTICAL AIRBORNE CONTROL SYSTEMS.....	2,462	2,462
197	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES.....	13,668	13,668
198	TACTICAL AIR CONTROL PARTY--MOD.....	6,217	4,117
200	DCAPES.....	19,910	19,910
201	NATIONAL TECHNICAL NUCLEAR FORENSICS.....	1,788	1,788
202	SEEK EAGLE.....	28,237	28,237
203	USAF MODELING AND SIMULATION.....	15,725	15,725
204	WARGAMING AND SIMULATION CENTERS.....	4,316	4,316
205	BATTLEFIELD ABN COMM NODE (BACN).....	26,946	26,946
206	DISTRIBUTED TRAINING AND EXERCISES.....	4,303	4,303
207	MISSION PLANNING SYSTEMS.....	71,465	71,465
208	TACTICAL DECEPTION.....	7,446	7,446
209	OPERATIONAL HG - CYBER.....	7,602	7,602
210	DISTRIBUTED CYBER WARFARE OPERATIONS.....	35,178	35,178
211	AF DEFENSIVE CYBERSPACE OPERATIONS.....	16,609	38,609
212	JOINT CYBER COMMAND AND CONTROL (JCC2).....	11,603	11,603
213	UNIFIED PLATFORM (UP).....	84,702	84,702
219	GEOBASE.....	2,723	2,723
220	NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES).....	44,190	44,190
226	AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS.....	3,575	3,575
227	E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC).....	70,173	60,173
228	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	13,543	13,543
229	HIGH FREQUENCY RADIO SYSTEMS.....	15,881	15,881
230	INFORMATION SYSTEMS SECURITY PROGRAM.....	27,726	27,726
232	GLOBAL FORCE MANAGEMENT - DATA INITIATIVE.....	2,210	2,210
234	MULTI DOMAIN COMMAND AND CONTROL (MDC2).....	150,880	100,880
235	AIRBORNE SIGINT ENTERPRISE.....	102,667	85,157
236	COMMERCIAL ECONOMIC ANALYSIS.....	3,431	3,431
239	C2 AIR OPERATIONS SUITE - C2 INFO SERVICES.....	9,313	9,313

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
240	CCMD INTELLIGENCE INFORMATION TECHNOLOGY.....	1,121 1,121
241	ISR MODERNIZATION & AUTOMATION DVMT (IMAD).....	19,000 19,000
242	GLOBAL AIR TRAFFIC MANAGEMENT (GATM).....	4,544 4,544
243	WEATHER SERVICE.....	25,461 35,461
244	AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC).....	5,651 8,651
245	AERIAL TARGETS.....	7,448 7,448
248	SECURITY AND INVESTIGATIVE ACTIVITIES.....	425 425
249	ARMS CONTROL IMPLEMENTATION.....	54,546 41,546
250	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	6,858 6,858
252	INTEGRATED BROADCAST SERVICE.....	8,728 8,728
253	DRAGON U-2.....	38,939 36,389
254	ENDURANCE UNMANNED AERIAL VEHICLES	--- 15,000
255	AIRBORNE RECONNAISSANCE SYSTEMS.....	122,909 137,909
256	MANNED RECONNAISSANCE SYSTEMS.....	11,787 11,787
257	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	25,009 25,009
258	RQ-4 UAV.....	191,733 191,733
259	NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA).....	10,757 10,757
260	NATO AGS.....	32,567 32,567
261	SUPPORT TO DCGS ENTERPRISE.....	37,774 37,774
262	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITECTURES.....	13,515 13,515
263	RAPID CYBER ACQUISITION.....	4,383 4,383
264	PERSONNEL RECOVERY COMMAND & CTRL (PRC2).....	2,133 2,133
265	INTELLIGENCE MISSION DATA (IMD).....	8,614 8,614
266	C-130 AIRLIFT SQUADRON.....	140,425 101,425
267	C-5 AIRLIFT SQUADRONS.....	10,223 10,223
268	C-17 AIRCRAFT.....	25,101 21,101
269	C-130J PROGRAM.....	8,640 8,640
270	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM).....	5,424 5,424
272	KC-10S.....	20 20
274	CV-22.....	17,906 17,906
276	SPECIAL TACTICS / COMBAT CONTROL.....	3,629 3,629
277	DEPOT MAINTENANCE (NON-IF).....	1,890 1,890
278	MAINTENANCE, REPAIR & OVERHAUL SYSTEM.....	10,311 10,311

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
279	LOGISTICS INFORMATION TECHNOLOGY (LOGIT).....	16,065 16,065
280	SUPPORT SYSTEMS DEVELOPMENT.....	539 539
281	OTHER FLIGHT TRAINING.....	2,057 2,057
282	OTHER PERSONNEL ACTIVITIES.....	10 10
283	JOINT PERSONNEL RECOVERY AGENCY.....	2,060 2,060
284	CIVILIAN COMPENSATION PROGRAM.....	3,809 3,809
285	PERSONNEL ADMINISTRATION.....	6,476 4,376
286	AIR FORCE STUDIES AND ANALYSIS AGENCY.....	1,443 1,443
287	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT..	9,323 9,323
288	DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS).....	46,789 42,789
289	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN).....	3,647 3,647
290	SERVICE SUPPORT TO STRATCOM - SPACE ACTIVITIES.....	988 988
291	SERVICE SUPPORT TO SPACECOM ACTIVITIES.....	11,863 11,863
293	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T).....	197,388 192,388
294	SATELLITE CONTROL NETWORK (SPACE).....	61,891 56,891
297	SPACE AND MISSILE TEST AND EVALUATION CENTER.....	4,566 4,566
298	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT.....	43,292 38,292
300	SPACELIFT RANGE SYSTEM (SPACE).....	10,837 20,837
301	GPS III SPACE SEGMENT.....	42,440 42,440
302	SPACE SUPERIORITY INTELLIGENCE.....	14,428 14,428
303	SPACE C2.....	72,762 75,762
304	NATIONAL SPACE DEFENSE CENTER.....	2,653 2,653
306	BALLISTIC MISSILE DEFENSE RADARS.....	15,881 15,881
308	NUDET DETECTION SYSTEM (SPACE).....	49,300 49,300
309	SPACE SITUATION AWARENESS OPERATIONS.....	17,834 17,834
310	GLOBAL POSITIONING SYSTEM III - OPERATIONAL CONTROL SEGMENT.....	445,302 445,302
311	ENTERPRISE GROUND SERVICES.....	138,870 118,870
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	6,499,982 6,722,996
9999	CLASSIFIED PROGRAMS.....	18,029,506 17,785,996
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE	45,616,122 45,566,955

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
2 UNIVERSITY RESEARCH INITIATIVES	158,859	178,859
Program increase		20,000
4 MATERIALS	128,851	215,851
Program increase - molybdenum silicon boron research		3,000
Program increase - coating technologies		10,000
Program increase - high performance materials		8,000
Program increase - deployable passive cooling		5,000
Program increase - additive manufacturing		20,000
Program increase - minority leaders program		8,500
Program increase - certification of advanced composites		15,000
Program increase - advanced aerospace composite structures		8,000
Program increase - human monitoring capabilities		9,500
5 AEROSPACE VEHICLE TECHNOLOGIES	147,724	157,724
Program increase - hypersonic vehicle structures		10,000
6 HUMAN EFFECTIVENESS APPLIED RESEARCH	131,795	134,795
Program increase - advanced technology development		3,000
7 AEROSPACE PROPULSION	198,775	226,775
Program increase - advanced turbine technologies		2,000
Program increase - next generation liquid propulsion		5,000
Program increase - next generation Hall thruster		14,000
Program increase - thermal management technology		7,000
8 AEROSPACE SENSORS	202,912	219,912
Program increase - exploitation detection		9,000
Program increase - RF spectrum situational awareness		8,000
14 DOMINANT INFORMATION SCIENCES AND METHODS	181,562	216,062
Program increase		5,000
Program increase - artificial intelligence/machine learning accelerator		8,000
Program increase - combat cloud technology		2,500
Program increase - quantum information science innovation center		8,000
Program increase - quantum communications		4,000
Program increase - quantum cryptography		7,000
15 HIGH ENERGY LASER RESEARCH	44,221	48,221
Program increase - directed energy fiber lasers		4,000
16 SPACE TECHNOLOGY	124,667	161,667
Program increase - thin-film photovoltaic energy		7,000
Program increase - operational cryogenic upper stage augmentation kit		10,000
Program increase - resilient space structure architecture		15,000
Program increase - space situational awareness research		5,000

R-1	Budget Request	Final Bill
17 ADVANCED MATERIALS FOR WEAPON SYSTEMS	36,586	60,086
Program increase - metals affordability research		10,000
Program increase - composites technology		9,000
Program increase - advanced ballistic eyewear		2,500
Program increase - artificial intelligence enhanced life cycle management		2,000
19 ADVANCED AEROSPACE SENSORS	38,292	42,292
Program increase - sensor integration to support ISR operations		4,000
20 AEROSPACE TECHNOLOGY DEV/DEMO	102,949	227,949
Unfunded requirement - Agility Prime		25,000
Program increase - low cost attritable aircraft technology		100,000
21 AEROSPACE PROPULSION & POWER TECHNOLOGY	113,973	170,973
Program increase - low spool generator capabilities		5,000
Program increase - advanced turbine gas generator		17,000
Program increase - chemical apogee engines		5,000
Program increase - silicon carbide research		10,000
Program increase - space propulsion technologies		2,000
Program increase - upper stage engine technology		18,000
23 ADVANCED SPACECRAFT TECHNOLOGY	70,525	80,525
Program increase - radiation hardened memory		10,000
28 MANUFACTURING TECHNOLOGY PROGRAM	43,116	130,916
Program increase - thermal protection for hypersonic vehicles		10,000
Program increase - modeling technology for small turbine engines		5,000
Program increase - manufacturing technology for reverse engineering		5,000
Program increase - solid state battery research		3,000
Program increase - agile manufacturing initiatives		10,000
Program increase - materials development research		5,000
Program increase - F-35 battery technology		9,800
Program increase - low cost manufacturing methods for hypersonic vehicle components		8,000
Program increase - flexible hybrid electronics		5,000
Program increase - aerospace composite structures		5,000
Program increase - certification of bonded aircraft structures		5,000
Program increase - industrialization of ceramic matrix composites for hypersonic weapons		10,000
Program increase - thermal batteries		2,000
Program increase - technologies to repair fastener holes		5,000
32 COMBAT IDENTIFICATION TECHNOLOGY	27,085	32,085
Program increase - trusted time loaders		5,000
34 ICBM DEM/VAL	44,109	30,969
Excess to need		-13,140
35 POLLUTION PREVENTION - DEM/VAL	0	3,000
Program increase - alternative energy aircraft tugs		3,000

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R-1	Budget Request	Final Bill
37 ADVANCED ENGINE DEVELOPMENT	878,442	671,442
Funding excess to need		-207,000
38 LONG RANGE STRIKE - BOMBER	3,003,899	2,982,499
Classified adjustment		-21,400
39 DIRECTED ENERGY PROTOTYPING	10,000	44,000
Unfunded requirement		20,000
Program increase - counter-UAS targeting solution		14,000
41 PNT RESILIENCY, MODS, AND IMPROVEMENTS	92,600	124,600
Unfunded requirement		32,000
43 NAOC RECAP	16,669	12,669
Unjustified growth		-4,000
44 TECHNOLOGY TRANSFER	23,614	37,614
Program increase - technology partnerships		4,000
Program increase - academic partnership intermediary agreement		
tech transfer		10,000
48 TECH TRANSITION PROGRAM	128,476	188,476
Program increase - advanced repair and qualification processes		6,000
Program increase - rapid sustainment office		20,000
Program increase - reliable power for critical infrastructure		6,000
Program increase - logistics technologies		5,000
Program increase - small satellite manufacturing		8,000
Program increase - directed energy experimentation		5,000
Program increase - additive manufacturing		10,000
49 GROUND BASED STRATEGIC DETERRENT	570,373	557,495
TMRR contract funding excess to need		-100,000
Program increase - risk reduction		65,100
Air Force requested transfer from line 168		22,022
50 LIGHT ATTACK ARMED RECONNAISSANCE	35,000	2,000
Unclear acquisition strategy		-33,000
51 NEXT GENERATION AIR DOMINANCE	1,000,000	905,000
Classified adjustment		-95,000
52 3DELRR	37,290	23,190
Schedule slip		-14,100
57 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	198,864	202,364
Program increase - cloud communication validation pilot		3,500
61 GLOBAL POSITIONING SYSTEM USER EQUIPMENT (SPACE)	329,948	320,598
Unjustified growth		-9,350
62 EO/IR WEATHER SYSTEMS	101,222	125,964
Transfer from line 72		24,742

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R-1		Budget Request	Final Bill
63	WEATHER SYSTEM FOLLOW-ON Unjustified growth	225,660	205,660 -20,000
67	SPACE CONTROL TECHNOLOGY Underexecution	64,231	58,231 -6,000
70	PROTECTED TACTICAL SERVICE (PTS) Unjustified growth	173,694	163,694 -10,000
71	EVOLVED STRATEGIC SATCOM (ESS) Unjustified increase	172,206	167,206 -5,000
72	SPACE RAPID CAPABILITIES OFFICE Transfer to line 62	33,742	9,000 -24,742
73	FUTURE ADVANCED WEAPON ANALYSIS Program termination	246,200	5,000 -241,200
74	PNT RESILIENCY, MODS, AND IMPROVEMENTS Unfunded requirement	67,782	142,782 75,000
77	TACTICAL DATA NETWORKS ENTERPRISE Forward financed	229,631	189,631 -40,000
79	SMALL DIAMETER BOMB Program increase - precise navigation Program increase - seeker cost reduction initiative	31,241	45,241 4,000 10,000
80	AIRBORNE ELECTRONIC ATTACK Unjustified request	2	0 -2
83	AGILE COMBAT SUPPORT Program increase - multi-modal threat detection and mitigation	19,944	26,944 7,000
84	LIFE SUPPORT SYSTEMS Unfunded requirement - next generation ejection seat	8,624	14,624 6,000
85	COMBAT TRAINING RANGES Program increase - F-35 advanced threat simulator	37,365	52,365 15,000
94	ADVANCED PILOT TRAINING Forward financed	348,473	340,373 -8,100
98	B-2 DMS Unjustified growth in management services Test and evaluation funding early to need	294,400	250,100 -34,300 -10,000
100	MINUTEMAN SQUADRONS Unjustified request	1	0 -1
110	GPS III FOLLOW-ON (GPS IIIF) Excess to need	462,875	447,875 -15,000

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R-1	Budget Request	Final Bill
111 SPACE SITUATION AWARENESS OPERATIONS	76,829	56,829
Forward financed		-20,000
112 COUNTERSPACE SYSTEMS	29,037	27,037
Underexecution		-2,000
114 SILENT BARKER	412,894	362,894
Silent Barker Phase II phasing		-50,000
117 POLAR MILSATCOM (SPACE)	427,400	412,400
Prior year carryover		-15,000
120 NEXT-GENERATION OPIR	1,395,278	1,470,278
Program increase		75,000
121 COMMERCIAL SATCOM INTEGRATION	0	5,000
Program increase - commercial satellite communications		5,000
122A TACTICALLY RESPONSIVE LAUNCH OPERATIONS	0	19,000
Program increase - venture class launch service		19,000
124 MAJOR T&E INVESTMENT	181,663	106,663
Unfunded requirement - space test infrastructure		36,000
Transfer to Military Construction Appropriations bill for three projects utilizing the fiscal year 2017 Defense Laboratory Modernization Pilot Program		-111,000
129 ACQUISITION WORKFORCE - GLOBAL POWER	258,667	255,667
Air Force requested transfer to line 134		-3,000
ACQUISITION WORKFORCE - GLOBAL VIGILANCE AND COMBAT		
130 SYSTEMS	251,992	249,992
Air Force requested transfer to line 134		-2,000
134 ACQUISITION WORKFORCE - CAPABILITY INTEGRATION	220,255	228,255
Air Force requested transfer from lines 129, 130 and 135		8,000
ACQUISITION WORKFORCE - ADVANCED PROGRAM		
135 TECHNOLOGY	42,392	39,392
Air Force requested transfer to line 134		-3,000
140 REQUIREMENTS ANALYSIS AND MATURATION	62,715	86,715
Unfunded requirement - development planning		2,000
Unfunded requirement - integrated simulation and analysis		4,000
Program increase - nuclear deterrence research		10,000
Program increase - nuclear modernization analytics		8,000
142 ENTERPRISE INFORMATION SERVICES	17,128	10,628
Forward financed		-6,500
144 GENERAL SKILL TRAINING	1,475	6,475
Program increase - integrated training and maintenance support systems		5,000



R-1	Budget Request	Final Bill
147 SPACE TEST AND TRAINING RANGE DEVELOPMENT Underexecution	19,942	14,942 -5,000
152 ADVANCED BATTLE MANAGEMENT SYSTEM Program increase - requirements refinement and technology identification	35,611	43,611 8,000
155 WIDE AREA SURVEILLANCE Air Force requested transfer from OP,AF line 34	0	20,000 20,000
157 F-35 C2D2 Prior year execution delays	694,455	642,371 -52,084
164 B-52 SQUADRONS Advanced target pod contract delay Program increase - Air Force Global Strike Command innovation hub	325,974	323,624 -4,350 2,000
167 B-2 SQUADRONS Program increase - B-2 training modernization Airspace compliance schedule delay	97,276	93,076 5,000 -9,200
168 MINUTEMAN SQUADRONS Air Force requested transfer to line 49 Launch control center block upgrade excess to need	128,961	104,219 -22,022 -2,720
170 WORLDWIDE JOINT STRATEGIC COMMUNICATIONS Program increase - NC3 architecture development	18,177	26,177 8,000
172 ICBM REENTRY VEHICLES Program delay	75,571	65,671 -9,900
176 MQ-9 Upgrade program excess to need	154,996	127,296 -27,700
178 A-10 SQUADRONS Forward financed	36,816	31,916 -4,900
180 F-15 SQUADRONS Mobile user objective system unjustified growth Transfer of two test aircraft and non-recurring engineering from AP,AF line 3	336,079	684,229 -16,250 364,400
182 F-22 SQUADRONS Air Force requested transfer from AP,AF line 28	496,298	546,298 50,000
189 COMPASS CALL Accelerate EC-37B baseline 4	15,888	31,888 16,000
198 TACTICAL AIR CONTROL PARTY - MOD Forward financed	6,217	4,117 -2,100
211 AF DEFENSIVE CYBERSPACE OPERATIONS Program increase - critical infrastructure cyber security Program increase - cyber resilient space architecture	16,609	38,609 10,000 12,000

(700)

R-1		Budget Request	Final Bill
227	E-4B NAOC Survivable SHF change in acquisition strategy	70,173	60,173 -10,000
234	MULTI-DOMAIN COMMAND AND CONTROL (MDC2) Unjustified growth Air Force requested transfer to OM,AF SAG 12A	150,880	100,880 -10,000 -40,000
235	AIRBORNE SIGINT ENTERPRISE Follow-on SIGINT sensors - unclear requirement and acquisition strategy	102,667	85,157 -17,510
243	WEATHER SERVICE Program increase - enhanced weather prediction Program increase - research on atmospheric rivers Program increase - commercial weather data pilot	25,461	35,461 3,000 2,000 5,000
244	ATCALs Program increase - infill radars	5,651	8,651 3,000
249	ARMS CONTROL IMPLEMENTATION Open Skies recap delays	54,546	41,546 -13,000
253	U-2 Avionics tech refresh schedule delays	38,939	36,389 -2,550
254	ENDURANCE UNMANNED AERIAL VEHICLES Program increase - ultra-long endurance aircraft	0	15,000 15,000
255	AIRBORNE RECONNAISSANCE SYSTEMS Program increase - wide area motion imagery	122,909	137,909 15,000
266	C-130 SQUADRONS Contract award savings	140,425	101,425 -39,000
268	C-17 SQUADRONS BLOS excess to need	25,101	21,101 -4,000
285	PERSONNEL ADMINISTRATION Forward financed	6,476	4,376 -2,100
288	DEAMS Increment 1 schedule delay	46,789	42,789 -4,000
293	FAB-T Underexecution	197,388	192,388 -5,000
294	SATELLITE CONTROL NETWORK (SPACE) DCO-S unjustified growth	61,891	56,891 -5,000
298	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT Underexecution	43,292	38,292 -5,000

(799)

R-1	Budget Request	Final Bill
300 SPACELIFT RANGE SYSTEM (SPACE) Program increase - space launch services and capability	10,837	20,837 10,000
303 SPACE C2 Unobligated balance Program increase - commercial capability	72,762	75,762 -2,000 5,000
311 ENTERPRISE GROUND SERVICES Contract award delay	138,870	118,870 -20,000
999 CLASSIFIED PROGRAMS Classified adjustment	18,029,506	17,785,996 -243,510

710

COMBAT RESCUE HELICOPTER

The agreement provides \$247,047,000, the same as the budget request, for the continued development of the Combat Rescue Helicopter. It is noted that the Air Force will use some of the funds provided to procure an additional test asset to support a modernization program that includes upgrades to address an evolving threat environment. The Secretary of the Air Force is directed to modify future budget exhibits and briefings to the congressional defense committees to clearly separate and identify funding for the modernization program and provide greater detail on both modernization requirements and the planned use of funds.

NEXT GENERATION OVERHEAD PERSISTENT INFRARED

The agreement retains language included in Senate Report 116-103 which designates the Next-Generation Overhead Persistent Infrared program as a congressional special interest item. The Secretary of the Air Force is directed to provide quarterly reports to the congressional defense committees on the program.

OVERHEAD PERSISTENT INFRARED ENTERPRISE ARCHITECTURE

The Department of Defense lacks consensus on its space architecture plans to meet requirements for strategic and tactical missile warning, missile defense, and battlespace awareness mission areas. Currently, the Air Force, Missile Defense Agency, Space Development Agency, and others, are planning to spend tens of billions of dollars pursuing various potential satellite constellations, with a variety of sensor types, constellation sizes, and orbits ranging from proliferated low-earth to geosynchronous and

others. The Department has yet to synchronize or harmonize these proposals into a clearly articulated executable and affordable integrated enterprise space architecture.

While the Air Force's Next-Generation Overhead Persistent Infrared Block 0 is an important near-term step for the missile warning mission area, an enterprise architecture strategy is needed to inform decisions on plans, programs, and investments to address the spectrum of overhead persistent infrared mission areas. Without such an enterprise architecture strategy there is potential for inefficiencies, duplication, and unnecessary overlap. The lack of an integrated strategy also risks missing opportunities to integrate sensors and capabilities to increase performance and improve survivability against increasing threats.

Therefore, the Secretary of Defense is directed to develop an integrated overhead persistent infrared enterprise architecture strategy to carry out these mission areas. The strategy shall define the Department's proposed reference architecture, acquisition strategy, identification of lead agency or Service for each element, estimated cost, schedule of key milestones, and transition plans. The Secretary of Defense is directed to provide the strategy to the congressional defense committees not later than 270 days after the enactment of this Act.

WEATHER ENTERPRISE STRATEGY

The agreement notes concerns about the Air Force's weather acquisition strategy and commitment to provide accurate and timely weather data, a mission with a profound impact on daily worldwide military operations. Therefore, the Secretary of the Air Force is directed to provide the congressional defense committees, not later than 180 days after the enactment of this Act, with a strategy, including proposed acquisition plans, estimated cost, and schedule of key milestones, for a weather enterprise architecture to meet all

twelve validated space-based environmental monitoring requirements and related Joint Requirements Oversight Council requirements through at least 2030.

LOW COST ATTRITABLE AIRCRAFT TECHNOLOGY

The agreement provides an additional \$100,000,000 to further develop Low Cost Attributable Aircraft Technology (LCAAT). The Secretary of the Air Force is directed to submit to the congressional defense committees a spend plan for this additional funding, plus any LCAAT funding in the underlying fiscal year 2020 budget request, not later than 90 days after the enactment of this Act.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION,
DEFENSE-WIDE

The agreement provides \$25,938,027,000 for Research, Development, Test and Evaluation, Defense-Wide, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 83A-Q

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVAL, DEFENSE-WIDE		
1	BASIC RESEARCH DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	26,000 26,000
2	DEFENSE RESEARCH SCIENCES.....	432,284 432,284
3	BASIC RESEARCH INITIATIVES.....	48,874 70,874
4	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE.....	54,122 54,122
5	NATIONAL DEFENSE EDUCATION PROGRAM.....	92,074 144,074
6	HISTORICALLY BLACK COLLEGES & UNIV (HBCU).....	30,708 52,708
7	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	45,238 48,238
	TOTAL, BASIC RESEARCH.....	729,300 828,300
APPLIED RESEARCH		
8	JOINT MUNITIONS TECHNOLOGY.....	19,306 19,306
9	BIOMEDICAL TECHNOLOGY.....	97,771 92,771
11	LINCOLN LABORATORY RESEARCH PROGRAM.....	52,317 52,317
12	APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES.....	62,200 60,400
13	INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	442,556 428,556
14	BIOLOGICAL WARFARE DEFENSE.....	34,588 34,588
15	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	202,587 215,057
16	CYBER SECURITY RESEARCH.....	15,118 25,118
17	TACTICAL TECHNOLOGY.....	337,602 313,002
18	MATERIALS AND BIOLOGICAL TECHNOLOGY.....	223,976 214,976
19	ELECTRONICS TECHNOLOGY.....	332,192 317,192
20	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	179,096 174,096
21	SOFTWARE ENGINEERING INSTITUTE.....	9,580 9,580
22	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	40,569 37,569
	TOTAL, APPLIED RESEARCH.....	2,049,458 1,994,528

83A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
23	ADVANCED TECHNOLOGY DEVELOPMENT JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	25,779 25,779
24	SO/LIC ADVANCED DEVELOPMENT.....	5,000 5,000
25	COMBATING TERRORISM TECHNOLOGY SUPPORT.....	70,517 91,517
26	FOREIGN COMPARATIVE TESTING.....	24,970 24,970
28	COUNTERPROLIFERATION INITIATIVES--PROLIF PREV & DEFEAT	340,065 330,065
29	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT.....	14,208 46,201
30	WEAPONS TECHNOLOGY.....	10,000 ---
31	ADVANCED RESEARCH.....	20,674 27,674
32	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	18,773 18,773
33	ADVANCED AEROSPACE SYSTEMS.....	279,741 279,741
34	SPACE PROGRAMS AND TECHNOLOGY.....	202,606 190,306
35	ANALYTIC ASSESSMENTS.....	19,429 18,429
36	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS.....	37,645 37,645
37	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS - MHA.....	14,668 14,668
38	COMMON KILL VEHICLE TECHNOLOGY.....	13,600 13,600
40	DEFENSE INNOVATION UNIT	29,398 29,398
41	TECHNOLOGY INNOVATION.....	60,000 30,000
42	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV	172,486 175,486
43	RETRACT LARCH.....	159,688 159,688
44	JOINT ELECTRONIC ADVANCED TECHNOLOGY.....	12,063 12,063
45	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	107,359 89,859
46	NETWORKED COMMUNICATIONS CAPABILITIES.....	2,858 2,858
47	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	96,397 197,397
48	MANUFACTURING TECHNOLOGY PROGRAM.....	42,834 52,834
49	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT.....	80,911 109,411
50	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	10,817 17,217
51	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	66,157 66,157
52	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT....	171,771 206,771

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
53	JOINT WARFIGHTING PROGRAM.....	4,846 4,846
54	ADVANCED ELECTRONICS TECHNOLOGIES.....	128,616 123,616
55	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	232,134 229,134
56	NETWORK-CENTRIC WARFARE TECHNOLOGY.....	512,424 507,424
57	SENSOR TECHNOLOGY.....	163,903 158,903
58	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	13,723 22,446
59	SOFTWARE ENGINEERING INSTITUTE.....	15,111 15,111
60	QUICK REACTION SPECIAL PROJECTS.....	47,147 35,647
61	ENGINEERING SCIENCE AND TECHNOLOGY.....	19,376 19,376
62	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM.....	85,223 80,723
63	TEST & EVALUATION SCIENCE & TECHNOLOGY.....	175,574 191,574
64	NATIONAL SECURITY INNOVATION NETWORK.....	25,000 40,000
65	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT.....	70,536 64,900
66	CWMD SYSTEMS.....	28,907 28,907
68	SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT....	89,154 99,404
69	SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT.	20,000 20,000
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	3,742,088 3,915,518
	DEMONSTRATION & VALIDATION	
70	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	42,695 42,695
71	WALKOFF.....	92,791 92,791
72	ACQUISITION ENTERPRISE DATA AND INFORMATION SERVICES..	5,659 5,659
73	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	66,572 68,572
74	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	302,761 306,761
75	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT... 1,156,506	1,303,716
76	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	83,662 80,162
77	BALLISTIC MISSILE DEFENSE SENSORS.....	283,487 352,288
78	BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS.....	571,507 634,449
79	SPECIAL PROGRAMS - MDA.....	377,098 512,098
80	AEGIS BMD.....	727,479 737,269
81	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT.....	564,206 549,756

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(IN THOUSANDS OF DOLLARS)

		BUDGET REQUEST	FINAL BILL
82	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	51,532	51,532
83	BALLISTIC MISSILE DEFENSE INTERGRATION AND OPERATIONS CENTER (MDIOC).....	56,161	56,161
84	REGARDING TRENCH.....	22,424	22,424
85	SEA BASED X-BAND RADAR (SBX).....	128,156	128,156
86	ISRAELI COOPERATIVE PROGRAMS.....	300,000	300,000
87	BALLISTIC MISSILE DEFENSE TEST.....	395,924	399,738
88	BALLISTIC MISSILE DEFENSE TARGETS.....	554,171	542,939
89	HUMANITARIAN DEMINING.....	10,820	14,700
90	COALITION WARFARE.....	11,316	11,316
91	DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	3,365	13,165
92	TECHNOLOGY MATURATION INITIATIVES.....	303,458	264,520
93	MISSILE DEFEAT PROJECT.....	17,816	14,816
95	HYPERSONIC DEFENSE.....	157,425	390,204
96	ADVANCED INNOVATIVE TECHNOLOGIES.....	1,312,735	1,133,365
97	TRUSTED AND ASSURED MICROELECTRONICS.....	542,421	547,421
98	RAPID PROTOTYPING PROGRAM.....	100,957	72,351
99	DEFENSE INNOVATION UNIT (DIU) PROTOTYPING.....	92,000	17,000
100	DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT.	3,021	7,021
102	HOMELAND DEFENSE RADAR-HAWAII.....	274,714	188,480
103	PACIFIC DISCRIMINATING RADAR.....	6,711	6,711
104	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)....	3,751	3,751
105	DEFENSE RAPID INNOVATION PROGRAM.....	14,021	---
107	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY.....	20,062	20,062
108	LONG RANGE DISCRIMINATION RADAR.....	136,423	136,423
109	IMPROVED HOMELAND DEFENSE INTERCEPTORS.....	412,363	515,000
110	BMD TERMINAL DEFENSE SEGMENT TEST.....	25,137	25,137
111	AEGIS BMD TEST.....	169,822	169,822
112	BALLISTIC MISSILE DEFENSE SENSOR TEST.....	105,530	105,530
113	LAND-BASED SM-3 (LBSM3).....	38,352	38,352

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
115	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT TEST.....	98,139 98,139
117	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS.....	1,600 1,600
118	JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM.....	3,191 3,191
119	CYBER SECURITY INITIATIVE.....	1,138 11,138
120	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING.....	85,000 75,000
121	SPACE TRACKING AND SURVEILLANCE SYSTEM.....	35,849 36,349
122	BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS.....	27,565 140,565
	TOTAL, DEMONSTRATION & VALIDATION.....	9,797,493 10,248,295
123	ENGINEERING & MANUFACTURING DEVELOPMENT NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	11,276 11,276
124	PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT.....	107,000 51,000
124A	JOINT HYPERSONICS TRANSITION OFFICE.....	--- 100,000
125	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	384,047 385,047
126	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	40,102 54,102
127	WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES.....	13,100 13,100
128	INFORMATION TECHNOLOGY DEVELOPMENT.....	3,070 3,070
129	HOMELAND PERSONNEL SECURITY INITIATIVE.....	7,295 7,295
130	DEFENSE EXPORTABILITY PROGRAM.....	17,615 12,115
131	OUSD(C) IT DEVELOPMENT INITIATIVES.....	15,653 9,590
132	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION..	2,378 2,378
133	DCMO POLICY AND INTEGRATION.....	1,618 1,618
134	DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM.....	27,944 23,944
135	DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS).....	6,609 6,609
136	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES.....	9,619 9,619
137	TRUSTED & ASSURED MICROELECTRONICS.....	175,032 175,032
138	INFORMATION SYSTEMS SECURITY PROGRAM.....	425 425
139	GLOBAL COMBAT SUPPORT SYSTEM.....	1,578 1,578
140	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)...	4,373 4,373
141	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION....	12,854 12,854
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	841,588 885,025

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
142	RDT&E MANAGEMENT SUPPORT JOINT CAPABILITY EXPERIMENTATION.....	13,000 13,000
143	DEFENSE READINESS REPORTING SYSTEM (DRRS).....	9,724 9,724
144	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT.....	9,593 9,593
145	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT....	260,267 390,692
146	ASSESSMENTS AND EVALUATIONS.....	30,834 30,834
147	MISSION SUPPORT.....	68,498 68,498
148	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC).....	83,091 89,091
149	TECHNICAL STUDIES, SUPPORT AND ANALYSIS.....	18,079 18,079
150	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION.	70,038 62,805
151	USD (P) PROGRAMS.....	--- 104,000
152	SYSTEMS ENGINEERING.....	37,140 37,140
153	STUDIES AND ANALYSIS SUPPORT.....	4,759 4,759
154	NUCLEAR MATTERS - PHYSICAL SECURITY.....	8,307 8,307
155	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	9,441 9,441
156	GENERAL SUPPORT TO USD (INTELLIGENCE).....	1,700 20,200
157	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	110,363 110,363
166	SMALL BUSINESS INNOVATION RESEARCH/TECHNOLOGY TRANSFER	3,568 3,568
167	MAINTAINING TECHNOLOGY ADVANTAGE.....	19,936 20,936
168	DEFENSE TECHNOLOGY ANALYSIS.....	16,875 15,875
169	DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	57,716 57,716
170	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	34,448 29,448
171	DEVELOPMENT TEST AND EVALUATION.....	22,203 22,203
172	MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT).....	13,208 13,208
173	MANAGEMENT HEADQUARTERS DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	3,027 3,027
174	BUDGET AND PROGRAM ASSESSMENTS.....	8,017 8,017
175	ODNA TECHNOLOGY AND RESOURCE ANALYSIS.....	3,194 3,194
176	DEFENSE DIGITAL SERVICE (DDS) DEVELOPMENT SUPPORT.....	1,000 1,000
179	DEFENSE OPERATIONS SECURITY (OPSEC).....	3,037 8,037
180	JOINT STAFF ANALYTICAL SUPPORT.....	9,216 9,216
183	SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES...	553 553
184	DEFENSE MILITARY DECEPTION PROGRAM OFFICE.....	1,014 1,014
185	COMBINED ADVANCED APPLICATIONS.....	58,667 58,667
187	INTELLIGENCE CAPABILITIES AND INNOVATION INVESTMENTS..	21,081 15,871

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
189	ALGORITHMIC WARFARE CROSS FUNCTIONAL TEAMS.....	221,235 221,235
191	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION.	40,073 40,073
192	DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI)	100 100
193	MANAGEMENT HEADQUARTERS - MDA.....	27,065 27,065
194	JOINT SERVICE PROVIDER (JSP).....	3,090 3,090
9999	CLASSIFIED PROGRAMS.....	51,471 51,471
	TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,354,628 1,601,110
	OPERATIONAL SYSTEMS DEVELOPMENT	
195	ENTERPRISE SECURITY SYSTEM (ESS).....	7,945 7,945
196	JOINT ARTIFICIAL INTELLIGENCE.....	208,834 183,834
197	REGIONAL INTERNATIONAL OUTREACH & PARTNERSHIP FOR PEAC	1,947 1,947
198	OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SY	310 310
199	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT.....	10,051 104,051
200	OPERATIONAL SYSTEMS DEVELOPMENT.....	12,734 12,734
201	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT.....	14,800 12,000
202	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D	54,023 51,834
203	PLANNING AND DECISION AID SYSTEM.....	4,537 4,537
204	C4I INTEROPERABILITY.....	64,122 64,122
210	DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION.	15,798 10,798
211	LONG HAUL COMMUNICATIONS (DCS).....	11,166 11,166
212	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	17,383 17,383
214	KEY MANAGEMENT INFRASTRUCTURE (KMI).....	54,516 54,516
215	INFORMATION SYSTEMS SECURITY PROGRAM.....	67,631 67,631
216	INFORMATION SYSTEMS SECURITY PROGRAM.....	289,080 327,198
217	INFORMATION SYSTEMS SECURITY PROGRAM.....	42,796 40,398
218	GLOBAL COMMAND AND CONTROL SYSTEM.....	25,218 17,218
219	JOINT SPECTRUM CENTER (DEFENSE SPECTRUM ORGANIZATION).	21,698 19,528
220	JOINT INFORMATION ENVIRONMENT (JIE).....	18,077 16,269
222	FEDERAL INVESTIGATIVE SERVICES INFORMATION TECHNOLOGY.	44,001 44,001
228	SECURITY AND INVESTIGATIVE ACTIVITIES.....	2,400 2,400
232	POLICY R&D PROGRAMS.....	6,301 6,301
233	NET CENTRICITY.....	21,384 21,384
235	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	6,359 6,359

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
238	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	2,981 2,981
241	INSIDER THREAT.....	1,964 1,964
242	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM.....	2,221 2,221
250	LOGISTICS SUPPORT ACTIVITIES.....	1,361 1,361
251	PACIFIC DISASTER CENTERS.....	1,770 1,770
252	DEFENSE PROPERTY ACCOUNTABILITY SYSTEM.....	3,679 3,679
254	MQ-9 UAV.....	20,697 20,697
256	SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED DEV.....	245,795 267,695
257	SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT...	15,484 15,484
258	SOF OPERATIONAL ENHANCEMENTS.....	166,922 159,922
259	WARRIOR SYSTEMS.....	62,332 75,514
260	SPECIAL PROGRAMS.....	21,805 21,005
261	UNMANNED ISR.....	37,377 37,377
262	SOF TACTICAL VEHICLES.....	11,150 11,150
263	SOF MARITIME SYSTEMS.....	72,626 72,626
264	SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES.....	5,363 5,363
265	SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE.....	12,962 9,962
266	SOF TELEPORT PROGRAM.....	6,158 5,542
300	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY.	--- 200,000
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,715,758 2,022,177
999	CLASSIFIED PROGRAMS.....	4,116,640 4,443,074
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DEF-WIDE.	24,346,953 25,938,027

83A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	Budget Request	Final Bill
3 BASIC RESEARCH INITIATIVES	48,874	70,874
Program increase - Minerva research initiative		2,000
Program increase - DEPSCOR		12,000
Program increase - cyber research		8,000
5 NATIONAL DEFENSE EDUCATION PROGRAM	92,074	144,074
Program increase - regional fabrication and certification training labs		15,000
Basic research program increase		35,000
Program increase - civics education		2,000
6 HISTORICALLY BLACK COLLEGES & UNIVERSITIES (HBCU) AND MINORITY-SERVING INSTITUTIONS	30,708	52,708
Program increase		20,000
Program increase - aerospace education, research and innovation center		2,000
7 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	45,238	48,238
Program increase - water jet technology		3,000
9 BIOMEDICAL TECHNOLOGY	97,771	92,771
Program delays		-5,000
12 APPLIED RESEARCH FOR THE ADVANCEMENT OF S&T PRIORITIES	62,200	60,400
Excess growth		-8,800
PFAS modeling		7,000
13 INFORMATION AND COMMUNICATIONS TECHNOLOGY	442,556	428,556
Unjustified increase		-15,000
Program increase - distributed ledger technology		1,000
15 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	202,587	215,057
Excess growth		-2,130
Program increase		12,500
Program increase - coatings technologies		2,100
16 CYBER SECURITY RESEARCH	15,118	25,118
Program increase - academic cyber institutes		10,000
17 TACTICAL TECHNOLOGY	337,602	313,002
Program delays		-14,600
Prior year carryover		-10,000
18 MATERIALS AND BIOLOGICAL TECHNOLOGY	223,976	214,976
Program delays		-9,000
19 ELECTRONICS TECHNOLOGY	332,192	317,192
Program delays		-15,000

R-1		Budget Request	Final Bill
20	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES	179,096	174,096
	Unjustified growth		-5,000
22	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	40,569	37,569
	Underexecution		-3,000
25	COMBATING TERRORISM TECHNOLOGY SUPPORT	70,517	91,517
	Program increase		5,000
	Program increase - bomb squad robot retrofitting		3,000
	Program increase - cooperative C-UAS development		13,000
28	COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	340,065	330,065
	Excess growth		-10,000
29	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	14,208	46,201
	Program increase - advanced cyber capabilities		5,000
	Program increase - cybersecurity of MDA DV left and right of launch		22,500
	Program increase - cybersecurity		4,493
30	WEAPONS TECHNOLOGY	10,000	0
	MD72 program termination		-10,000
31	ADVANCED RESEARCH	20,674	27,674
	Program increase - carbon composites manufacturing		7,000
34	SPACE PROGRAMS AND TECHNOLOGY	202,606	190,306
	Excess to need - RSGS replan		-12,300
35	ANALYTIC ASSESSMENTS	19,429	18,429
	Underexecution		-1,000
41	TECHNOLOGY INNOVATION	60,000	30,000
	Insufficient justification		-30,000
42	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEVELOPMENT	172,486	175,486
	Program increase - improved gas particulate filter unit		3,000
45	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	107,359	89,859
	Unjustified growth		-17,500
47	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM	96,397	197,397
	Program increase		20,000
	Program increase - manufacturing engineering programs		5,000
	Program increase - manufacturing innovation institutes		10,000
	Program increase - advanced manufacturing		10,000
	Program increase - HPC enabled advanced manufacturing		17,000
	Program increase - manufacturing cybersecurity		14,000
	Program increase - silicon based lasers		25,000

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R-1		Budget Request	Final Bill
48	MANUFACTURING TECHNOLOGY PROGRAM Program increase - steel performance initiative	42,834	52,834 10,000
49	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT Excess growth Program increase - high-altitude optical reconnaissance unit and sensors Program increase - open source intelligence Program increase - remote advise and assist technology development Program increase - disruptive air and missile defense Program increase - artificial intelligence enabled sensor network	80,911	109,411 -7,500 10,000 3,000 8,000 5,000 10,000
50	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS Program increase - fuel conversion Program increase - liquid hydrocarbon fuels Prior year carryover	10,817	17,217 5,000 5,000 -3,600
52	MICROELECTRONIC TECHNOLOGY DEVELOPMENT Program increase - cyber accelerator Program increase - GaN-on-Si-based RF Front-end	171,771	206,771 30,000 5,000
54	ADVANCED ELECTRONICS TECHNOLOGIES Program delays	128,616	123,616 -5,000
55	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS Program delays Program increase - satellite antenna technology	232,134	229,134 -10,000 7,000
56	NETWORK-CENTRIC WARFARE TECHNOLOGY Unjustified increase	512,424	507,424 -5,000
57	SENSOR TECHNOLOGY Program delays	163,903	158,903 -5,000
58	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT Program increase	13,723	22,446 8,723
60	QUICK REACTION SPECIAL PROJECTS Prior year carryover	47,147	35,647 -11,500
62	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM Early to need	85,223	80,723 -4,500
63	TEST & EVALUATION SCIENCE & TECHNOLOGY Program increase - test resource management center	175,574	191,574 16,000
64	NATIONAL SECURITY INNOVATION NETWORK Program increase - national security technology accelerator	25,000	40,000 15,000
65	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT Excess growth Program increase	70,536	64,900 -10,636 5,000

83K

R-1		Budget Request	Final Bill
	SPECIAL OPERATIONS ADVANCED TECHNOLOGY		
68	DEVELOPMENT	89,154	99,404
	Program increase - ballistic and laser protective eyewear		4,250
	Program increase - identity management		6,000
	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION		
73	PROGRAM	66,572	68,572
	Program increase - technology demonstration program		2,000
74	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	302,761	306,761
	Program increase - cybersecurity		4,000
75	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	1,156,506	1,303,716
	Early to need		-56,900
	RKV realignment - GBI CE-I reliability SLEP only		180,000
	Program increase - cybersecurity		24,110
76	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAMS	83,662	80,162
	Program delays - VAC VEE		-2,000
	Program delays - MPD		-1,500
77	BALLISTIC MISSILE DEFENSE SENSORS	283,487	352,288
	Program increase – models and simulation unfunded requirement		1,500
	MD11 modeling and simulation development unjustified growth		-21,993
	Program increase – cybersecurity		20,294
	Program increase - HEMP hardening		69,000
78	BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS	571,507	634,449
	Program increase - cybersecurity enhancements		62,942
79	SPECIAL PROGRAMS - MDA	377,098	512,098
	Program increase - classified unfunded requirement		135,000
80	AEGIS BMD	727,479	737,269
	Aegis BMD unjustified growth		-28,000
	RKV realignment - AEGIS upgrades		29,000
	Program increase - cybersecurity		8,790
81	BALLISTIC MISSILE DEFENSE C2BMC	564,206	549,756
	Program decrease - IBCS delay		-1,550
	Program increase – cybersecurity		18,850
	Increment 7 early to need		-31,750
87	BMD TESTS	395,924	399,738
	Program increase - cybersecurity		3,814
88	BMD TARGETS	554,171	542,939
	MRBM target contract award delays		-11,232
89	HUMANITARIAN DEMINING	10,820	14,700
	Program increase		3,880

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R-1		Budget Request	Final Bill
91	DEPARTMENT OF DEFENSE CORROSION PROGRAM	3,365	13,165
	Program increase		2,000
	Program increase - coatings technologies		5,000
	Program increase - military painter training and applied research		2,800
92	TECHNOLOGY MATURATION INITIATIVES	303,458	264,520
	Program decrease - neutral particle beam		-34,000
	Flight test lack of justification		-4,938
93	MISSILE DEFEAT PROJECT	17,816	14,816
	Insufficient justification		-3,000
95	HYPERSONIC DEFENSE	157,425	390,204
	Program increase - hypersonic defense		1,900
	Program increase - Glide Phase Defeat Weapon System		25,000
	Program increase - engineering enablers		57,858
	Program increase - leverage and upgrade existing systems		43,942
	Program increase - fiscal year 2020 partnered flight test participation		104,079
96	ADVANCED INNOVATIVE TECHNOLOGIES	1,312,735	1,133,365
	Unjustified program growth		-80,000
	Insufficient justification		-174,370
	Undistributed reduction		-10,000
	Program increase - micro nuclear reactor program		70,000
	Program increase - advanced technologies to support operational agility, fleet sustainability, and offset advantage		15,000
97	TRUSTED & ASSURED MICROELECTRONICS	542,421	547,421
	Program increase - supply chain risk management		5,000
98	RAPID PROTOTYPING PROGRAM	100,957	72,351
	Reduce duplication		-28,606
99	DEFENSE INNOVATION UNIT (DIU) PROTOTYPING	92,000	17,000
	Insufficient justification - National Security Innovation Capital project		-75,000
100	DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT	3,021	7,021
	Program increase - unmanned traffic management		4,000
102	HOMELAND DEFENSE RADAR - HAWAII	274,714	188,480
	Radar foundation and thermal control system		-1,234
	Funding acceleration early to need		-85,000
105	DEFENSE RAPID INNOVATION PROGRAM	14,021	0
	Program decrease - insufficient justification		-14,021

83M

R-1	Budget Request	Final Bill
109 IMPROVED HOMELAND DEFENSE INTERCEPTORS	412,363	515,000
RKV realignment		-140,000
RKV program termination		-222,363
RKV program termination - Next Generation Interceptor Competitive Development		310,000
RKV realignment - risk reduction		155,000
119 CYBER SECURITY INITIATIVE	1,138	11,138
Program increase - Cheyenne Mountain cyber resilience efforts		10,000
120 SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	85,000	75,000
Insufficient justification		-10,000
121 SPACE TRACKING & SURVEILLANCE SYSTEM	35,849	36,349
Program increase - cybersecurity		500
122 BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS	27,565	140,565
Program increase - hypersonic and ballistic tracking space sensor unfunded requirement		108,000
Program increase - cybersecurity		5,000
124 PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT	107,000	51,000
Transfer to RDTE,A line 100		-31,000
Classified reduction		-25,000
124A JOINT HYPERSONICS TRANSITION OFFICE	0	100,000
Program increase		100,000
125 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	384,047	385,047
Excess growth		-4,267
MMPRDS - program delays		-2,533
CALs - program delays		-2,500
SSA - program delays		-700
Program increase - Smallpox antiviral post-exposure prophylaxis		11,000
126 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	40,102	54,102
Program increase - encrypted and authenticated data in transit		5,500
Program increase - integrated kinetic and non-kinetic nodal analysis		8,500
130 DEFENSE EXPORTABILITY PROGRAM	17,615	12,115
Excess growth		-5,500
131 OUSD(C) IT DEVELOPMENT INITIATIVES	15,653	9,590
Prior year carryover		-6,063
134 DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM	27,944	23,944
Prior year carryover		-4,000

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R-1	Budget Request	Final Bill
145 CENTRAL TEST & EVAL INVESTMENT DEVELOPMENT	260,267	390,692
Program increase - hypersonic test facilities		20,000
Program increase - hypersonics ground testing in support of National Defense Strategy		45,625
Program increase - space test infrastructure in support of National Defense Strategy		7,000
Program increase - flight test infrastructure in support of National Defense Strategy		12,500
Program increase - directed energy infrastructure in support of National Defense Strategy		20,000
Program increase - cyber infrastructure in support of National Defense Strategy		10,000
Program increase - cyber resiliency		3,000
Program increase - defense threat center of excellence		12,300
148 JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC)	83,091	89,091
Program increase		6,000
150 JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION	70,038	62,805
Excess growth		-7,233
151 CLASSIFIED PROGRAM USD(P)	0	104,000
Classified adjustment		104,000
156 GENERAL SUPPORT TO USD (INTELLIGENCE)	1,700	20,200
Program increase - applied research laboratory for intelligence and security		12,000
Program increase		6,500
167 MAINTAINING TECHNOLOGY ADVANTAGE	19,936	20,936
Excess growth		-2,000
Program increase - Securing American Science and Technology		3,000
168 DEFENSE TECHNOLOGY ANALYSIS	16,875	15,875
Prior year carryover		-4,000
Program increase - technology transition		3,000
R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	34,448	29,448
Unjustified growth		-5,000
179 DEFENSE OPERATIONS SECURITY INITIATIVE (DOSI)	3,037	8,037
Program increase - cyber kinetic combat environment		5,000
185 COMBINED ADVANCED APPLICATIONS	58,667	58,667
Unjustified growth		-15,000
Program increase		15,000
187 INTELLIGENCE CAPABILITIES AND INNOVATION INVESTMENTS	21,081	15,871
Insufficient justification		-5,210

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R-1	Budget Request	Final Bill
196 JOINT ARTIFICIAL INTELLIGENCE	208,834	183,834
Insufficient justification		-25,000
199 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT	10,051	104,051
Program increase		10,000
Program increase - submarine workforce development		8,000
Program increase - manufacturing engineering		12,500
Program increase - advanced armor piercing penetrator		12,000
Program increase - lead-free electronics		5,000
Program increase - precision optics manufacturing		7,500
Program increase - machine and advanced manufacturing		20,000
Program increase - automated textile manufacturing		9,000
Program increase - interdisciplinary center for advanced manufacturing systems		5,000
Program increase - rare earth elements from coal ash		5,000
201 GLOBAL THEATER SECURITY COOPERATION MANAGEMENT	14,800	12,000
Unjustified growth		-2,800
CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL		
202 SYSTEMS DEVELOPMENT)	54,023	51,834
SSA - program delays		-700
ALS MOD - program delays		-500
MODPROT - program delays		-500
JBAIDS - program delays		-489
DEFENSE INFO INFRASTRUCTURE ENGINEERING AND		
210 INTEGRATION	15,798	10,798
Prior year carryover		-5,000
216 INFORMATION SYSTEMS SECURITY PROGRAM	289,080	327,198
Sharkseer - Department requested transfer to line 217		-1,882
Program increase - workforce transformation cyber security initiative pilot		25,000
Program increase - cyber scholarships for senior military colleges		10,000
Program increase - cyber security pathfinders		5,000
217 INFORMATION SYSTEMS SECURITY PROGRAM	42,796	40,398
Unjustified growth		-4,280
Sharkseer - Department requested transfer from line 216		1,882
218 GLOBAL COMMAND AND CONTROL SYSTEM	25,218	17,218
Prior year carryover		-8,000
219 DEFENSE SPECTRUM ORGANIZATION	21,698	19,528
Insufficient justification		-2,170
220 JOINT REGIONAL SECURITY STACKS (JRSS)	18,077	16,269
Insufficient justification		-1,808

83P

R-1	Budget Request	Final Bill
SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED		
256 DEVELOPMENT	245,795	267,695
Program increase - loitering missile		8,000
RFCM - SOCOM requested transfer from P,DW line 61		8,400
Program increase - aviation systems, future vertical lift		8,000
IMTS - unjustified growth		-2,500
258 SOF OPERATIONAL ENHANCEMENTS	166,922	159,922
Classified adjustment		-7,000
259 WARRIOR SYSTEMS	62,332	75,514
Program increase - small glide munition UAS integration		3,000
Prior year carryover		-3,818
Program increase - distribute audio media and next generation loudspeaker		4,000
Program increase - SGM collaborative strike enhancement		10,000
260 SPECIAL PROGRAMS	21,805	21,005
Classified adjustment		-4,000
Program increase - enhanced visual augmentation system		3,200
263 SOF MARITIME SYSTEMS	72,626	72,626
Program increase - driver propulsion device		3,000
DCS - poor justification materials		-3,000
265 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	12,962	9,962
Underexecution		-3,000
266 TELEPORT PROGRAM	6,158	5,542
Insufficient justification		-616
300 NATIONAL SECURITY INNOVATION ACTIVITIES	0	200,000
Program increase		200,000
999 CLASSIFIED PROGRAMS	4,116,640	4,443,074
Classified adjustment		-102,566
Transfer from title IX		426,000
Program increase - transport access control		3,000

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REDESIGNED KILL VEHICLE PROGRAM TERMINATION AND UNITED STATES

HOMELAND DEFENSE

Subsequent to the submission of the fiscal year 2020 budget request, the Under Secretary of Defense (Research and Engineering) terminated for convenience the Redesigned Kill Vehicle (RKV) program. It is noted that the Administration is evaluating several potential interceptor options for improving the Nation's homeland defense, to include a Next Generation Interceptor (NGI) that would field several years from now. Therefore, the agreement recommends several adjustments, as delineated in the project level tables in this explanatory statement, to initiate the competitive development of NGI while maintaining and enhancing existing homeland defense capabilities against near- and mid-term threats prior to the fielding of NGI.

It is expected that with submission of the fiscal year 2021 budget request, the Administration will have concluded its evaluation of interceptor options. Therefore, the Director of the Missile Defense Agency (MDA) is directed to submit to the congressional defense committees, with the submission of the fiscal year 2021 budget request, MDA's strategy for the Nation's homeland defense in the near-, mid-, and far-term, to include acquisition strategies for each element of the architecture, manufacturing and technology readiness levels, contract-type determinations and rationales therefor, plans for technical data management, sustainment strategies, integrated master test plans and integrated master schedules, as well as cost estimates.

Further, the Secretary of Defense is directed to select an appropriate entity outside the Department of Defense to conduct an independent review and assessment of the current and planned United States homeland defense architecture against near-, mid-, and far-term threats. At a minimum, such review shall address operational effectiveness and reliability of the current system; force structure and inventory levels necessary to

achieve the planned capabilities; the strategy for the development, production, testing, deployment, modernization and sustainment of the architecture; technology and manufacturing readiness levels required to implement the architecture; and industrial base readiness to support this architecture. It is further directed that such review shall be submitted to the congressional defense committees not later than 180 days after the enactment of this Act. In addition, the Director, Cost Assessment and Program Evaluation is directed to submit to the congressional defense committees an independent cost assessment of this architecture not later than 30 days after submission of the review to the congressional defense committees.

This language replaces language under the header “Redesigned Kill Vehicle Program Termination and Development of Next Generation Interceptor” in Senate Report 116-103.

OPERATIONAL TEST AND EVALUATION, DEFENSE

The agreement provides \$227,700,000 for Operational Test and Evaluation, Defense, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
OPERATIONAL TEST AND EVALUATION	93,291	93,291
LIVE FIRE TESTING	69,172	69,172
OPERATIONAL TEST ACTIVITIES AND ANALYSIS	58,737	65,237
Program increase - advanced satellite navigation receiver		5,000
Program increase - cyber talent recruitment initiative		1,500
TOTAL, OPERATIONAL TEST & EVALUATION, DEFENSE	221,200	227,700

TITLE V - REVOLVING AND MANAGEMENT FUNDS

The agreement provides \$1,564,211,000 in Title V, Revolving and Management Funds.

DEFENSE WORKING CAPITAL FUNDS

The agreement provides \$1,564,211,000 for Defense Working Capital Funds, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
WORKING CAPITAL FUND, ARMY	89,597	227,597
Arsenals Initiative	57,467	186,467
Program increase		129,000
Supply Management	32,130	32,130
Program increase - pilot program for partnership with digital manufacturing institute efforts		9,000
WORKING CAPITAL FUND, AIR FORCE	92,499	92,499
WORKING CAPITAL FUND, DEFENSE-WIDE	49,085	49,085
DEFENSE WORKING CAPITAL FUND, DECA	995,030	995,030
DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY	0	200,000
Transfer - DCSA funding from request as a separate working capital fund		200,000
TOTAL, DEFENSE WORKING CAPITAL FUNDS	1,226,211	1,564,211

TITLE VI - OTHER DEPARTMENT OF DEFENSE PROGRAMS

The agreement provides \$36,316,176,000 in Title VI, Other Department of Defense Programs, as follows:

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

insert 88A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

TITLE VI		
OTHER DEPARTMENT OF DEFENSE PROGRAMS		
Defense Health Program		
Operation and maintenance.....	31,812,090	31,321,665
Procurement.....	454,324	446,359
Research, development, test and evaluation.....	732,273	2,306,095
Total, Defense Health Program 1/.....	32,998,687	34,074,119
Chemical Agents and Munitions Destruction, Defense:		
Operation and maintenance.....	107,351	107,351
Procurement.....	2,218	2,218
Research, development, test and evaluation.....	875,930	875,930
Total, Chemical Agents 2/.....	985,499	985,499
Drug Interdiction and Counter-Drug Activities, Defense1/.....	799,402	893,059
Office of the Inspector General 1/.....	363,499	363,499
	=====	=====
Total, title VI, Other Department of Defense Programs.....	35,147,087	36,316,176
	=====	=====

88A

DEFENSE HEALTH PROGRAM

The agreement provides \$34,074,119,000 for the Defense Health Program, as follows:

~~(INSERT COMPUTER TABLE)~~ e

~~(INSERT PROJECT LEVEL TABLE)~~

insert 89A - C

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
DEFENSE HEALTH PROGRAM		
OPERATION AND MAINTENANCE		
10	IN-HOUSE CARE.....	9,570,615 9,285,415
20	PRIVATE SECTOR CARE.....	15,041,006 14,975,181
30	CONSOLIDATED HEALTH SUPPORT.....	1,975,536 1,941,936
40	INFORMATION MANAGEMENT.....	2,004,588 1,956,738
50	MANAGEMENT ACTIVITIES.....	333,246 330,246
60	EDUCATION AND TRAINING.....	793,810 750,860
70	BASE OPERATIONS/COMMUNICATIONS.....	2,093,289 2,081,289
	SUBTOTAL, OPERATION AND MAINTENANCE.....	31,812,090 31,321,665
PROCUREMENT		
150	INITIAL OUTFITTING.....	26,135 18,484
160	REPLACEMENT AND MODERNIZATION.....	225,774 225,774
170	JOINT OPERATIONAL MEDICINE INFORMATION SYSTEM.....	314 ---
180	MILITARY HEALTH SYSTEM - DESKTOP TO DATACENTER.....	73,010 73,010
180	DOD HEALTH MANAGEMENT SYSTEM MODERNIZATION.....	129,091 129,091
	SUBTOTAL, PROCUREMENT.....	454,324 446,359
RESEARCH DEVELOPMENT TEST AND EVALUATION		
80	RESEARCH.....	12,621 12,621
90	EXPLORATORY DEVELOPMENT.....	84,266 84,266
100	ADVANCED DEVELOPMENT.....	279,766 279,766
110	DEMONSTRATION/VALIDATION.....	128,055 128,055
120	ENGINEERING DEVELOPMENT.....	143,527 101,749
130	MANAGEMENT AND SUPPORT.....	67,219 67,219
140	CAPABILITIES ENHANCEMENT.....	16,819 16,819
150	UNDISTRIBUTED MEDICAL RESEARCH.....	--- 1,615,600
	SUBTOTAL, RESEARCH DEVELOPMENT TEST AND EVALUATION	732,273 2,306,095
	TOTAL, DEFENSE HEALTH PROGRAM.....	32,998,687 34,074,119

89A

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

	Budget Request	Final Bill
OPERATION AND MAINTENANCE		
IN-HOUSE CARE	9,570,615	9,285,415
Medical reform implementation - excess funding to replace military medical end strength		-250,000
Printing and reproduction excess growth		-5,200
Transfer from OM,DW line 1PLR		5,000
Equipment purchases excess growth		-35,000
PRIVATE SECTOR CARE	15,041,006	14,975,181
Medical reform implementation		-17,325
Pharmaceuticals excess growth		-10,000
Historical underexecution		-38,500
CONSOLIDATED HEALTH SUPPORT	1,975,536	1,941,936
Aeromedical Evacuation System excess growth		-7,100
Program increase - therapeutic service dog training program		11,000
Historical underexecution		-37,500
INFORMATION MANAGEMENT	2,004,588	1,956,738
DHMSM excess growth		-21,000
Historical underexecution		-5,650
TMIP-J excess growth		-17,800
JOMIS excess growth		-3,400
MANAGEMENT ACTIVITIES	333,246	330,246
Medical reform implementation		-3,000
EDUCATION AND TRAINING	793,810	750,860
Medical reform implementation		-31,850
Supplies and materials excess growth		-6,700
Equipment purchases excess growth		-6,900
Program increase - specialized medical pilot program		2,500
BASE OPERATIONS AND COMMUNICATIONS	2,093,289	2,081,289
Insufficient justification		-7,000
Other costs excess growth		-5,000
TOTAL, OPERATION AND MAINTENANCE	31,812,090	31,321,665
PROCUREMENT		
New facility outfitting excess due to military construction delays		-7,651
JOMIS ahead of need		-314
TOTAL, PROCUREMENT	454,324	446,359
RESEARCH AND DEVELOPMENT		
DHMSM prior year carryover		-23,778
JOMIS excess growth		-18,000
Peer-reviewed ALS research		20,000
Peer-reviewed alzheimer research		15,000
Peer-reviewed autism research		15,000
Peer-reviewed bone marrow failure disease research		3,000

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	Budget Request	Final Bill
Peer-reviewed breast cancer research		150,000
Peer-reviewed cancer research		110,000
Peer-reviewed Duchenne muscular dystrophy research		10,000
Peer-reviewed epilepsy research		12,000
Peer-reviewed gulf war illness research		22,000
Peer-reviewed hearing restoration research		10,000
Peer-reviewed kidney cancer research		40,000
Peer-reviewed lung cancer research		14,000
Peer-reviewed lupus research		10,000
Peer-reviewed medical research		360,000
Peer-reviewed melanoma research		20,000
Peer-reviewed multiple sclerosis research		16,000
Peer-reviewed orthopedic research		30,000
Peer-reviewed ovarian cancer research		35,000
Peer-reviewed pancreatic cancer research		6,000
Peer-reviewed prostate cancer research		110,000
Peer-reviewed rare cancers research		7,500
Peer-reviewed scleroderma research		5,000
Peer-reviewed spinal cord research		40,000
Peer-reviewed reconstructive transplant research		12,000
Peer-reviewed tickborne disease research		7,000
Peer-reviewed traumatic brain injury and psychological health research		165,000
Peer-reviewed tuberous sclerosis complex research		6,000
Peer-reviewed vision research		20,000
Global HIV/AIDS prevention		8,000
HIV/AIDS program increase		15,000
Joint warfighter medical research		40,000
Orthotics and prosthetics outcome research		15,000
Chronic pain management		15,000
Trauma clinical research program		10,000
Combat readiness medical research		10,000
Restore core funding reduction		232,100
TOTAL, RESEARCH AND DEVELOPMENT	732,273	2,306,095

(890)

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

The agreement directs that the In-House Care and Private Sector Care budget sub-activities remain designated as congressional special interest items. Any transfer of funds into or out of these sub-activities requires the Secretary of Defense to follow prior approval reprogramming procedures. The Secretary of Defense is further directed to provide a report to the congressional defense committees not later than 30 days after the enactment of this Act that delineates transfers of funds and the dates any transfers occurred from the Private Sector Care budget sub-activity to any other budget sub-activity in fiscal year 2019.

The Assistant Secretary of Defense (Health Affairs) is directed to provide quarterly briefings to the congressional defense committees on budget execution data for all of the Defense Health Program budget activities not later than 30 days after the end of each fiscal quarter and to adequately reflect changes to the budget activities requested by the Services in future budget submissions.

The agreement recognizes the shortfall in excess of \$700,000,000 experienced in the execution of Private Sector Care in fiscal year 2019 and consequently includes only modest reductions to the fiscal year 2020 Private Sector Care budget request. This language replaces the language under the headings “Reprogramming Guidance for the Defense Health Program” in House Report 116-84 and “Defense Health Program Reprogramming Procedures” in Senate Report 116-103.

CARRYOVER

The agreement provides one percent carryover authority for the operation and maintenance account of the Defense Health Program. The Assistant Secretary of Defense (Health Affairs) is directed to submit a detailed spending plan for any fiscal year 2019 designated carryover funds to the congressional defense committees not less than 30 days prior to executing the carryover funds.

PEER-REVIEWED CANCER RESEARCH PROGRAM

The agreement provides \$110,000,000 for the peer-reviewed cancer research program to research cancers not addressed in the breast, pancreatic, prostate, ovarian, kidney, lung, melanoma, and rare cancer research programs.

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

The reports directed under this heading in House Report 116-84 and Senate Report 116-103 are still required to be provided not later than 12 months after the enactment of this Act.

PEER-REVIEWED MEDICAL RESEARCH PROGRAM

The agreement provides \$360,000,000 for a peer-reviewed medical research program. The Secretary of Defense, in conjunction with the Service Surgeons General, is directed to select medical research projects of clear scientific merit and direct relevance to military health. Research areas considered under this funding are restricted to: arthritis, burn pit exposure, chronic migraine and post-traumatic headache, congenital heart disease, constrictive bronchiolitis, diabetes, dystonia, eating disorders, emerging viral diseases, endometriosis, epidermolysis bullosa, familial hypercholesterolemia, fibrous dysplasia, focal segmental glomerulosclerosis, food allergies, Fragile X, frontotemporal degeneration, Guillain-Barre Syndrome, hemorrhage control, hepatitis B, hydrocephalus, immunomonitoring of intestinal transplants, inflammatory bowel diseases, interstitial cystitis, metals toxicology, mitochondrial disease, musculoskeletal health, myalgic encephalomyelitis/chronic fatigue syndrome, myotonic dystrophy, nutrition optimization, pancreatitis, pathogen-inactivated blood products, plant-based vaccines, polycystic kidney disease, pressure ulcers, pulmonary fibrosis, resilience training, respiratory health, rheumatoid arthritis, sleep disorders and restriction, spinal muscular atrophy, sustained release drug delivery, vascular malformations, and women's heart disease. The additional funding provided under the peer-reviewed medical research program shall be devoted only to the purposes listed above.

ELECTRONIC HEALTH RECORDS

The agreement highlights legislative language directing the Secretary of Defense to provide quarterly reports to the congressional defense committees on the status of the deployment of the electronic health record. These reports, directed to be submitted not

later than 30 days after the end of each fiscal quarter, shall include the cost and schedule of the program, to include milestones, knowledge points, and acquisition timelines, as well as quarterly obligation reports. These reports should also be provided to the Government Accountability Office. It is expected that the House and Senate Appropriations Committees continue to receive briefings on a quarterly basis, coinciding with the report submission.

The agreement includes legislative language requiring the Secretary to notify the congressional defense committees on any delays to the proposed timeline for deployment. Legislative language directing the Comptroller General to continue quarterly performance reviews of the deployment of MHS GENESIS is also included. It is expected that the Program Executive Officer, Defense Healthcare Management Systems (PEO DHMS) will facilitate quarterly performance reviews by providing the Comptroller General with regular and in-depth access to the program.

The Under Secretary of Defense (Acquisition and Sustainment) is directed to brief the congressional defense committees not later than 30 days after the full deployment decision on the results of the Full Operational Test and Evaluation. Additionally, the PEO DHMS is directed to provide monthly reports not later than 15 days after the end of each month to the congressional defense committees on the status of all open incident reports, as well as high priority incident reports, in order to better track the progress of resolving the issues identified in the initial deployment of MHS GENESIS.

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

CHANGE IN REPORTING DEADLINES

The reports directed in Senate Report 116-103 under the headings “Traumatic Brain Injury / Psychological Health”, “Joint Warfighter Medical Research Program”, and “Orthotics and Prosthetics Outcomes Research” are all directed to be submitted to the congressional defense committees not later than 12 months after the enactment of this Act.

CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

The agreement provides \$985,499,000 for Chemical Agents and Munitions Destruction, Defense, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
OPERATION AND MAINTENANCE	107,351	107,351
PROCUREMENT	2,218	2,218
RESEARCH, DEVELOPMENT, TEST AND EVALUATION	875,930	875,930
TOTAL, CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE	985,499	985,499

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

The agreement provides \$893,059,000 for Drug Interdiction and Counter-Drug Activities, Defense, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
COUNTER-NARCOTICS SUPPORT	581,739	522,171
Transfer to National Guard Counter-Drug Program		-64,225
Program decrease		-343
Program increase – National Commission on Combatting Synthetic Opioid Trafficking		5,000
DRUG DEMAND REDUCTION PROGRAM	120,922	124,922
Program increase - young Marines drug demand reduction		4,000
NATIONAL GUARD COUNTER-DRUG PROGRAM	91,370	220,595
Transfer from Counter-narcotics support		64,225
Program increase		65,000
NATIONAL GUARD COUNTER-DRUG SCHOOLS	5,371	25,371
Program increase		20,000
TOTAL, DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE	799,402	893,059

OFFICE OF THE INSPECTOR GENERAL

The agreement provides \$363,499,000 for the Office of the Inspector General, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
OPERATION AND MAINTENANCE	360,201	360,201
PROCUREMENT	333	333
RESEARCH, DEVELOPMENT, TEST AND EVALUATION	2,965	2,965
TOTAL, OFFICE OF THE INSPECTOR GENERAL	363,499	363,499

TITLE VII - RELATED AGENCIES

The agreement provides \$1,070,000,000 in Title VII, Related Agencies, as follows:

~~(INSERT COMPUTER TABLE)~~

Insert 98A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL

TITLE VII		
RELATED AGENCIES		
Central Intelligence Agency Retirement and Disability System Fund.....	514,000	514,000
Intelligence Community Management Account (ICMA).....	558,000	556,000
	=====	=====
Total, title VII. Related agencies.....	1,072,000	1,070,000
	=====	=====

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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, 2020.

CENTRAL INTELLIGENCE AGENCY RETIREMENT AND DISABILITY
SYSTEM FUND

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

INTELLIGENCE COMMUNITY MANAGEMENT ACCOUNT

The agreement provides \$556,000,000, a decrease of \$2,000,000 below the budget request, for the Intelligence Community Management Account.

TITLE VIII – GENERAL PROVISIONS

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

(TRANSFER OF FUNDS)

The agreement includes a provision which provides general transfer authority not to exceed \$4,000,000,000. The House bill contained a similar provision.

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

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

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

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

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

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

The agreement includes a provision which provides funding for the Civil Air Patrol Corporation. The House bill contained a similar provision.

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

The agreement retains a provision proposed by the House which prohibits the use of funds to disestablish, close, downgrade from host to extension center, or place a Senior Reserve Officers' Training Corps program on probation.

The agreement includes a provision which allows for expenses related to the acquisition of vehicles for use by the POW/MIA Accounting Agency. The House bill contained no similar provision.

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

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

(RESCISSIONS)

The agreement modifies a provision proposed by the House recommending rescissions and provides for the rescission of \$4,090,652,000. The rescissions agreed to are:

2012 Appropriations:

Shipbuilding and Conversion, Navy:

DDG-51 Destroyer.....\$44,500,000

2013 Appropriations:

Shipbuilding and Conversion, Navy:

LCAC SLEP.....2,000,000

2018 Appropriations:

Aircraft Procurement, Army:

Utility f/w aircraft44,000,000

Missile Procurement, Army:

Indirect fire protection capability5,182,000

Weapons and Tracked Combat Vehicles, Army:

Paladin integrated management97,000,000

Other Procurement, Army:

Tractor Yard.....5,685,000

Aircraft Procurement, Navy:

F/A-18 E/F	46,000,000
C-40.....	68,781,000
Other Procurement, Navy:	
LCS class support equipment.....	9,868,000
LPD class support equipment	9,110,000
AN/SLQ-32 block 3 installation funding.....	4,548,000
Procurement, Marine Corps:	
AAV7A1 PIP	9,046,000
Aircraft Procurement, Air Force:	
KC-46A tanker.....	76,000,000
HC-130J	6,522,000
MQ-9.....	20,400,000
A-10	5,900,000
KC-46 modifications.....	1,200,000
C-130J modifications.....	30,953,000
RQ-4 post production charges ICS	20,000,000
Missile Procurement, Air Force:	
Missile replacement equipment-ballistic	39,173,000
Small diameter bomb	36,800,000
Other Procurement, Air Force:	
AFNET (ARAD).....	26,000,000
2019 Appropriations:	
Operation and Maintenance, Defense-Wide:	
DSCA security cooperation	21,314,000
Aircraft Procurement, Army:	
Apache new build	58,600,000
Missile Procurement, Army:	
Indirect fire protection capability	24,498,000
Javelin (AAWS-M) system summary.....	20,000,000
MLRS modifications.....	23,300,000
Weapons and Tracked Combat Vehicles, Army:	
Armored multi-purpose vehicle.....	37,106,000
Bradley modifications	178,840,000
Other Procurement, Army:	
Embedded crypto mod.....	3,520,000
Joint light tactical vehicle - TADSS	17,258,000
Joint effects targeting system.....	60,900,000
Army command post integrated infrastructure	2,284,000
Global combat support system-Army	6,841,000

Contract writing system	5,927,000
Area mine detection system	5,797,000
Tractor Yard	4,956,000
Aircraft Procurement, Navy:	
Joint Strike Fighter STOVL AP	114,246,000
CH-53K (Heavy Lift) AP	53,693,000
F-18 series	71,300,000
H-1 series	9,250,000
T-45 series	10,520,000
V-22 (tilt/rotor aircraft) Osprey	19,000,000
Joint Strike Fighter CV	12,481,000
Joint Strike Fighter STOVL	16,610,000
Procurement of Ammunition, Navy and Marine Corps:	
Direct support munitions – 5"/54 ammunition	22,000,000
Shipbuilding and Conversion, Navy:	
DDG-51 AP for removal of fiscal year 2022 3 rd ship	51,000,000
LPD-17 AP	102,900,000
Other Procurement, Navy:	
AN/SLQ-32 block 3 installation funding	13,470,000
Unmanned carrier aviation mission control station	11,300,000
Procurement, Marine Corps:	
AAV7A1 PIP	74,756,000
Aircraft Procurement, Air Force:	
F-35	21,532,000
KC-46A tanker	52,000,000
C-130J	1,008,000
MC-130J	38,951,000
Combat rescue helicopter	26,400,000
KC-46 modifications	8,500,000
Initial spares – KC-135	2,200,000
C-17	42,000,000
F-15 – APG82(V)1	19,300,000
F-15C EPAWSS	67,200,000
F-16 modifications – AIFF mode 5	36,000,000
A-10	4,800,000
E-3 modifications	14,553,000
E-8 modifications	19,807,000
HC/MC-130 modifications – block 8.1	17,370,000
Other production charges – F-22 depot activation	30,000,000

MQ-9 spares.....	69,900,000
B-52 modifications.....	31,600,000
MC-130J AP	56,000,000
Other aircraft – BACN.....	15,000,000
Aerial targets	48,000,000
Other aircraft – EW pod.....	25,900,000
Initial spares/repair parts – F-15 EPAWSS	4,034,000
Initial spares/repair parts – KC-46A.....	61,400,000
Missile Procurement, Air Force:	
Missile replacement equipment - ballistic	13,927,000
MMIII modifications	26,052,000
Space Procurement, Air Force:	
Integrated broadcast service.....	4,000,000
Evolved expendable launch vehicle (SPACE)	85,100,000
Evolved expendable launch capability	75,200,000
Procurement of Ammunition, Air Force:	
Massive ordnance penetrator	3,400,000
General purpose bombs – BLU-137	71,800,000
JDAM.....	149,000,000
B61-12 TKA	11,900,000
Procurement, Defense-Wide:	
GMD	197,000,000
GMD AP	115,000,000
STC/NGTC	25,000,000
Research, Development, Test and Evaluation, Army:	
Assured PNT	17,998,000
Infantry support weapons – S62 counter-defilade target engagement	1,998,000
Night vision systems – eng dev – joint effects targeting systems.....	1,150,000
Firefinder – hypervelocity armament system	1,571,000
Soldier systems – warrior dem/val.....	3,000,000
Suite of survivability enhancement systems - EMD.....	5,914,000
Missile warning system modernization	6,776,000
Emerging technology initiatives	7,100,000
AMF joint tactical radio system.....	15,964,000
Assessment and evaluations cyber vulnerabilities.....	13,400,000
Apache product improvement program	4,700,000
Improved turbine engine program	3,000,000

Unmanned aircraft system universal products.....	9,595,000
Combat vehicle improvement programs –	
M113 improvements	7,915,000
Combat vehicle improvement programs – Bradley	25,000,000
Other missile product improvement programs	4,450,000
Information systems security program	
COMSEC equipment	20,745,000
Research, Development, Test and Evaluation, Navy:	
Advanced tactical unmanned aircraft system	4,809,000
V-22A.....	28,651,000
Next generation jammer.....	81,000,000
Information technology development.....	6,300,000
Harpoon modifications.....	5,197,000
Classified program	105,000,000
Research, Development, Test and Evaluation, Air Force:	
KC-135.....	2,600,000
MQ-9.....	49,800,000
ARM/ORD.....	10,000,000
Classified programs	56,500,000
Hard and deeply buried target defeat system.....	4,800,000
B-1B squadrons.....	15,000,000
Airborne warning and control system.....	11,600,000
Airborne reconnaissance systems	26,000,000
RQ-4 UAV	9,650,000
C-130J program	2,700,000
Space rapid capabilities office	74,400,000
Research, Development, Test and Evaluation, Defense-Wide:	
Improved homeland defense interceptors	267,000,000
Defense Health Program, Research, Development, Test and Evaluation:	
JOMIS carryover.....	26,200,000

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

The agreement includes a provision which prohibits the transfer of Department of Defense or Central Intelligence Agency drug interdiction and counter-drug activity funds to other agencies, with certain exceptions. The House included a similar provision.

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

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

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

The agreement includes a provision regarding expired obligations and unexpended balances. The House bill contained a similar provision.

(TRANSFER OF FUNDS)

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

The agreement includes a provision which restricts certain funds used to procure end-items. The House bill contained a similar provision.

The agreement retains a provision proposed by the House which restricts certain funds for any new start advanced concept technology demonstration project or joint capability demonstration project.

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

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

(TRANSFER OF FUNDS)

The agreement includes a provision which directs that up to \$1,000,000 from Operation and Maintenance, Navy shall be available for transfer to the John C. Stennis Center for Public Service Development Trust Fund. The House bill contained no similar provision.

The agreement includes a provision which directs Shipbuilding and Conversion, Navy funding for cost to complete efforts. The House bill contained a similar provision.

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

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

The agreement modifies a provision proposed by the House for the rapid acquisition and deployment of supplies and associated support services.

The agreement retains a provision proposed by the House which restricts the transfer of funds for support to friendly foreign countries in connection with the conduct of operations in which the United States is not participating.

The agreement retains a provision proposed by the House which limits the reprogramming of funds from the Defense Acquisition Workforce Development Fund.

The agreement includes a provision relating to the Joint Department of Defense—Department of Veterans Affairs Medical Facility Demonstration Fund. The House bill contained a similar provision.

(TRANSFER OF FUNDS)

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

The agreement includes a provision which prohibits funds to transfer any individual detained at Guantanamo Bay, Cuba to a country of origin or other foreign country or entity unless the Secretary of Defense makes certain certifications. The House bill contained a similar provision.

The agreement includes a provision which limits funding to Rosoboronexport. The House bill contained a similar provision.

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

The agreement includes a provision which prohibits funds to construct, acquire, or modify any facility in the United States, its territories, or possessions to house any Guantanamo Bay detainee, with certain exceptions. The House bill contained no similar provision.

The agreement modifies a provision proposed by the House which provides for ex gratia payments incidental to combat operations.

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

The agreement retains a provision proposed by the House which provides funding for the National Defense Reserve Fleet.

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

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

The agreement modifies a provision proposed by the House which limits the use of funds for the T-AO(X) and FFG(X) Frigate programs.

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

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

The agreement includes a provision which makes funding available for a project in a country designated by the Secretary. The House bill contained no similar provision.

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

The agreement includes a provision which places certain limitations on the transfer of funds for the Global Engagement Center. The House bill contained a similar provision.

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

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

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

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

The agreement modifies a provision proposed by the House which allows funding for research, development and evaluation for the modification of certain Joint Strike Fighter aircraft.

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

The agreement retains a provision proposed by the House which prohibits funding in contravention of Executive Order 13175 or section 1501.2(d)(2) of title 40, Code of Federal Regulations.

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

The agreement modifies a provision proposed by the House which requires the Department of Defense to submit reports required by section 596 of the National Defense Authorization Act for Fiscal Year 2020.

The agreement includes a new provision which reduces funding due to favorable foreign exchange rates.

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

The agreement provides \$70,665,000,000 in Title IX, Overseas Contingency Operations/Global War on Terrorism.

MILITARY PERSONNEL

The agreement provides \$4,485,808,000 for Military Personnel, as follows:

~~(INSERT MILPERS OCO TABLE)~~

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

M-1	Budget Request	Final Bill
MILITARY PERSONNEL, ARMY		
BA-1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY	400,180	400,180
RETIRED PAY ACCRUAL	97,644	97,644
BASIC ALLOWANCE FOR HOUSING	121,906	121,906
BASIC ALLOWANCE FOR SUBSISTENCE	14,524	14,524
INCENTIVE PAYS	3,305	3,305
SPECIAL PAYS	24,905	24,905
ALLOWANCES	27,510	27,510
SEPARATION PAY	3,551	3,551
SOCIAL SECURITY TAX	30,600	30,600
TOTAL, BA-1	724,125	724,125
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	833,570	833,570
RETIRED PAY ACCRUAL	203,392	203,392
BASIC ALLOWANCE FOR HOUSING	331,542	331,542
INCENTIVE PAYS	2,024	2,024
SPECIAL PAYS	76,026	76,026
ALLOWANCES	61,647	61,647
SEPARATION PAY	1,009	1,009
SOCIAL SECURITY TAX	63,769	63,769
TOTAL, BA-2	1,572,979	1,572,979
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	94,192	94,192
SUBSISTENCE-IN-KIND	308,078	308,078
TOTAL, BA-4	402,270	402,270
BA-5: PERMANENT CHANGE OF STATION TRAVEL		
OPERATIONAL TRAVEL	4,256	4,256
ROTATIONAL TRAVEL	1,028	1,028
TEMPORARY LODGING EXPENSE	119	119
TOTAL, BA-5	5,403	5,403
BA-6: OTHER MILITARY PERSONNEL COSTS		
INTEREST ON UNIFORMED SERVICES SAVINGS	4,054	4,054
DEATH GRATUITIES	2,800	2,800
UNEMPLOYMENT BENEFITS	21,703	21,703
SGLI EXTRA HAZARD PAYMENTS	9,798	9,798
TOTAL, BA-6	38,355	38,355
TOTAL, MILITARY PERSONNEL, ARMY	2,743,132	2,743,132

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M-1	Budget Request	Final Bill
MILITARY PERSONNEL, NAVY		
BA-1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY	68,443	68,443
RETIRED PAY ACCRUAL	16,700	16,700
BASIC ALLOWANCE FOR HOUSING	23,102	23,102
BASIC ALLOWANCE FOR SUBSISTENCE	2,256	2,256
INCENTIVE PAYS	464	464
SPECIAL PAYS	3,998	3,998
ALLOWANCES	6,868	6,868
SOCIAL SECURITY TAX	5,245	5,245
TOTAL, BA-1	127,076	127,076
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	83,786	83,786
RETIRED PAY ACCRUAL	20,443	20,443
BASIC ALLOWANCE FOR HOUSING	45,506	45,506
INCENTIVE PAYS	161	161
SPECIAL PAYS	9,288	9,288
ALLOWANCES	15,668	15,668
SOCIAL SECURITY TAX	6,410	6,410
TOTAL, BA-2	181,262	181,262
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	9,057	9,057
SUBSISTENCE-IN-KIND	23,095	23,095
TOTAL, BA-4	32,152	32,152
BA-5: PERMANENT CHANGE OF STATION TRAVEL		
ACCESSION TRAVEL	3,151	3,151
OPERATIONAL TRAVEL	698	698
ROTATIONAL TRAVEL	223	223
SEPARATION TRAVEL	4,516	4,516
TOTAL, BA-5	8,588	8,588
BA-6: OTHER MILITARY PERSONNEL COSTS		
UNEMPLOYMENT BENEFITS	3,654	3,654
SGLI EXTRA HAZARD PAYMENTS	3,660	3,660
TOTAL, BA-6	7,314	7,314
TOTAL, MILITARY PERSONNEL, NAVY	356,392	356,392

MILITARY PERSONNEL, MARINE CORPS

BA-1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY	22,993	22,993
RETIRED PAY ACCRUAL	5,610	5,610
BASIC ALLOWANCE FOR HOUSING	8,142	8,142
BASIC ALLOWANCE FOR SUBSISTENCE	764	764
INCENTIVE PAYS	238	238
SPECIAL PAYS	2,382	2,382
ALLOWANCES	2,859	2,859

(112B)

M-1	Budget Request	Final Bill
SEPARATION PAY	878	878
SOCIAL SECURITY TAX	1,759	1,759
TOTAL, BA-1	45,625	45,625
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	22,994	22,994
RETIRED PAY ACCRUAL	5,611	5,611
BASIC ALLOWANCE FOR HOUSING	12,502	12,502
INCENTIVE PAYS	5	5
SPECIAL PAYS	5,284	5,284
ALLOWANCES	6,268	6,268
SEPARATION PAY	877	877
SOCIAL SECURITY TAX	1,759	1,759
TOTAL, BA-2	55,300	55,300
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	2,635	2,635
TOTAL, BA-4	2,635	2,635
BA-6: OTHER MILITARY PERSONNEL COSTS		
INTEREST ON UNIFORMED SERVICES SAVINGS	238	238
SGLI EXTRA HAZARD PAYMENTS	415	415
TOTAL, BA-6	653	653
TOTAL, MILITARY PERSONNEL, MARINE CORPS	104,213	104,213
MILITARY PERSONNEL, AIR FORCE		
BA-1: PAY AND ALLOWANCES OF OFFICERS		
BASIC PAY	127,838	127,838
RETIRED PAY ACCRUAL	31,197	31,197
BASIC ALLOWANCE FOR HOUSING	35,863	35,863
BASIC ALLOWANCE FOR SUBSISTENCE	3,919	3,919
SPECIAL PAYS	8,364	8,364
ALLOWANCES	4,788	4,788
SOCIAL SECURITY TAX	9,780	9,780
TOTAL, BA-1	221,749	221,749
BA-2: PAY AND ALLOWANCES OF ENLISTED PERSONNEL		
BASIC PAY	326,053	326,053
RETIRED PAY ACCRUAL	79,557	79,557
BASIC ALLOWANCE FOR HOUSING	137,589	137,589
SPECIAL PAYS	28,895	28,895
ALLOWANCES	18,225	18,225
SOCIAL SECURITY TAX	24,943	24,943
TOTAL, BA-2	615,262	615,262

M-1	Budget Request	Final Bill
BA-4: SUBSISTENCE OF ENLISTED PERSONNEL		
BASIC ALLOWANCE FOR SUBSISTENCE	33,640	33,640
SUBSISTENCE-IN-KIND	117,601	117,601
TOTAL, BA-4	151,241	151,241
BA-6: OTHER MILITARY PERSONNEL COSTS		
DEATH GRATUITIES	700	700
UNEMPLOYMENT BENEFITS	11,653	11,653
SGLI EXTRA HAZARD PAYMENTS	6,989	6,989
TOTAL, BA-6	19,342	19,342
TOTAL, MILITARY PERSONNEL, AIR FORCE	1,007,594	1,007,594
RESERVE PERSONNEL, ARMY		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	34,812	34,812
TOTAL, BA-1	34,812	34,812
TOTAL, RESERVE PERSONNEL, ARMY	34,812	34,812
RESERVE PERSONNEL, NAVY		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	11,370	11,370
TOTAL, BA-1	11,370	11,370
TOTAL, RESERVE PERSONNEL, NAVY	11,370	11,370
RESERVE PERSONNEL, MARINE CORPS		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	3,552	3,552
ADMINISTRATION AND SUPPORT	47	47
TOTAL, BA-1	3,599	3,599
TOTAL, RESERVE PERSONNEL, MARINE CORPS	3,599	3,599
RESERVE PERSONNEL, AIR FORCE		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	16,428	16,428
TOTAL, BA-1	16,428	16,428
TOTAL, RESERVE PERSONNEL, AIR FORCE	16,428	16,428

(1120)

M-1	Budget Request	Final Bill
NATIONAL GUARD PERSONNEL, ARMY		
BA-1: UNIT AND INDIVIDUAL TRAINING		
PAY GROUP A TRAINING (15 DAYS and DRILLS 24/48)	65,231	65,231
SCHOOL TRAINING	3,324	3,324
SPECIAL TRAINING	115,437	115,437
ADMINISTRATION AND SUPPORT	18,652	18,652
TOTAL, BA-1	202,644	202,644
TOTAL, NATIONAL GUARD PERSONNEL, ARMY	202,644	202,644
NATIONAL GUARD PERSONNEL, AIR FORCE		
BA-1: UNIT AND INDIVIDUAL TRAINING		
SPECIAL TRAINING	5,624	5,624
TOTAL, BA-1	5,624	5,624
TOTAL, NATIONAL GUARD PERSONNEL, AIR FORCE	5,624	5,624
TOTAL, MILITARY PERSONNEL	4,485,808	4,485,808

(112E)

OPERATION AND MAINTENANCE

The agreement provides \$53,891,051,000 for Operation and Maintenance, as follows:

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

insert 113A-J

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

O-1	Budget Request	Final Bill
OPERATION AND MAINTENANCE, ARMY		
111 MANEUVER UNITS (GWOT)	3,146,796	1,410,874
Transfer to title II		-1,735,922
112 MODULAR SUPPORT BRIGADES (GWOT)	127,815	0
Transfer to title II		-127,815
113 ECHELONS ABOVE BRIGADE (GWOT)	742,858	26,502
Transfer to title II		-716,356
114 THEATER LEVEL ASSETS (GWOT)	3,165,381	2,249,490
Transfer to title II		-890,891
Unjustified growth		-25,000
115 LAND FORCES OPERATIONS SUPPORT (GWOT)	1,368,765	136,288
Transfer to title II		-1,232,477
116 AVIATION ASSETS (GWOT)	1,655,846	300,240
Transfer to title II		-1,355,606
121 FORCE READINESS OPERATIONS SUPPORT (GWOT)	6,889,293	4,085,009
Transfer to title II		-2,724,284
Unjustified growth		-80,000
122 LAND FORCES SYSTEMS READINESS (GWOT)	29,985	29,985
123 LAND FORCES DEPOT MAINTENANCE (GWOT)	1,720,258	461,931
Transfer to title II		-1,258,327
131 BASE OPERATIONS SUPPORT (GWOT)	8,163,639	488,606
Insufficient justification		-2,100
Transfer to title II		-7,672,933
FACILITIES SUSTAINMENT, RESTORATION AND		
132 MODERNIZATION (GWOT)	72,657	72,657
135 ADDITIONAL ACTIVITIES (GWOT)	6,397,586	6,372,586
Insufficient justification		-25,000
136 COMMANDERS EMERGENCY RESPONSE PROGRAM (GWOT)	5,000	5,000
137 RESET (GWOT)	1,048,896	1,046,396
Insufficient justification		-2,500
141 US AFRICA COMMAND (GWOT)	203,174	220,174
Transfer from title II - personnel recovery and casualty evacuation support		17,000

113A

O-1	Budget Request	Final Bill
142 US EUROPEAN COMMAND (GWOT) Insufficient justification	173,676	170,876 -2,800
CYBERSPACE ACTIVITIES - CYBERSPACE OPERATIONS		
151 (GWOT)	188,529	188,529
153 CYBERSPACE ACTIVITIES - CYBERSECURITY (GWOT)	5,682	5,682
212 ARMY PREPOSITIONED STOCK (GWOT)	131,954	131,954
421 SERVICEWIDE TRANSPORTATION (GWOT)	721,014	721,014
422 CENTRAL SUPPLY ACTIVITIES (GWOT)	66,845	66,845
423 LOGISTICS SUPPORT ACTIVITIES (GWOT)	9,309	9,309
424 AMMUNITION MANAGEMENT (GWOT)	23,653	23,653
434 OTHER PERSONNEL SUPPORT (GWOT)	109,019	109,019
437 REAL ESTATE MANAGEMENT (GWOT) Insufficient justification	251,355	245,855 -5,500
411 OTHER PROGRAMS (GWOT)	1,568,564	1,568,564
PROGRAM DECREASE NOT ACCOUNTED FOR		-55,000
TOTAL, OPERATION AND MAINTENANCE, ARMY	37,987,549	20,092,038
OPERATION AND MAINTENANCE, NAVY		
1A1A MISSION AND OTHER FLIGHT OPERATIONS (GWOT) Transfer to title II	5,682,156	1,273,047 -4,409,109
1A3A AVIATION TECHNICAL DATA & ENGINEERING SVCS (GWOT) Transfer to title II	60,115	816 -59,299
1A4A AIR OPERATIONS AND SAFETY SUPPORT (GWOT)	9,582	9,582
1A4N AIR SYSTEMS SUPPORT (GWOT)	197,262	197,262
1A5A AIRCRAFT DEPOT MAINTENANCE (GWOT) Transfer to title II	1,322,427	168,246 -1,154,181
1A6A AIRCRAFT DEPOT OPERATIONS SUPPORT (GWOT)	3,594	3,594
1A9A AVIATION LOGISTICS (GWOT)	10,618	10,618
1B1B MISSION AND OTHER SHIP OPERATIONS (GWOT) Transfer to title II	5,582,370	2,399,837 -3,182,533

113B

O-1	Budget Request	Final Bill
1B2B SHIP OPERATIONS SUPPORT & TRAINING (GWOT)	20,334	20,334
1B5B SHIP DEPOT MAINTENANCE (GWOT)	10,426,913	2,990,615
Transfer to title II		-8,061,298
Program increase - U.S.S. Boise		405,000
Program increases - U.S.S. Hartford		110,000
Program increase - U.S.S. Columbus		110,000
1B5B SHIP DEPOT OPERATIONS SUPPORT (GWOT)	2,073,641	0
Transfer to title II		-2,073,641
1C1C COMBAT COMMUNICATIONS (GWOT)	58,092	58,092
1C3C SPACE SYSTEMS AND SURVEILLANCE (GWOT)	18,000	18,000
1C4C WARFARE TACTICS (GWOT)	16,984	16,984
1C5C OPERATIONAL METEOROLOGY AND OCEANOGRAPHY (GWOT)	29,382	29,382
1C6C COMBAT SUPPORT FORCES (GWOT)	608,870	608,870
EQUIPMENT MAINTENANCE AND DEPOT OPERATIONS		
1C7C SUPPORT (GWOT)	7,799	7,799
COMBATANT COMMANDERS DIRECT MISSION SUPPORT		
1CCM (GWOT)	24,800	24,800
1CCY CYBERSPACE ACTIVITIES (GWOT)	363	363
1D4D WEAPONS MAINTENANCE (GWOT)	486,188	473,188
Program transfer to base budget unaccounted for		-13,000
1D7D OTHER WEAPON SYSTEMS SUPPORT (GWOT)	12,189	12,189
BSM1 FSRM (GWOT)	68,667	68,667
BSS1 BASE OPERATING SUPPORT (GWOT)	4,634,042	219,099
Transfer to title II		-4,414,943
2C1H EXPEDITIONARY HEALTH SERVICES SYSTEMS (GWOT)	17,580	17,580
2C3H COAST GUARD SUPPORT (GWOT)	190,000	0
Coast Guard funded in Department of Homeland Security		-190,000
3B1K SPECIALIZED SKILL TRAINING (GWOT)	52,161	52,161
4A1M ADMINISTRATION (GWOT)	8,475	8,475
MILITARY MANPOWER AND PERSONNEL MANAGEMENT		
4A4M (GWOT)	7,653	7,653
4B1N SERVICEWIDE TRANSPORTATION (GWOT)	70,683	70,683

113C

O-1	Budget Request	Final Bill
4B3N ACQUISITION AND PROGRAM MANAGEMENT (GWOT)	11,130	11,130
INVESTIGATIVE AND SECURITY SERVICES (GWOT)	1,559	1,559
4C0P OTHER PROGRAMS (GWOT)	21,054	17,754
Classified adjustment		-3,300
REMOVE ONE-TIME FISCAL YEAR 2019 INCREASE		-26,000
TOTAL, OPERATION AND MAINTENANCE, NAVY	31,734,683	8,772,379
OPERATION AND MAINTENANCE, MARINE CORPS		
1A1A OPERATIONAL FORCES (GWOT)	1,682,877	699,653
Transfer to title II		-968,224
Program increase unaccounted for		-15,000
1A2A FIELD LOGISTICS (GWOT)	232,508	232,508
1A3A DEPOT MAINTENANCE (GWOT)	287,092	54,101
Transfer to title II		-232,991
1B1B MARITIME PREPOSITIONING(GWOT)	100,396	0
Transfer to title II		-100,396
1CCY CYBERSPACE ACTIVITIES (GWOT)	2,000	2,000
BSM1 SUSTAINMENT, RESTORATION & MODERNIZATION (GWOT)	443,292	0
Transfer to title II		-443,292
BSS1 BASE OPERATING SUPPORT (GWOT)	2,278,346	24,570
Transfer to title II		-2,253,776
3B4D TRAINING SUPPORT (GWOT)	30,459	30,459
4A3G SERVICEWIDE TRANSPORTATION (GWOT)	61,400	61,400
4A7G OTHER PROGRAMS (GWOT)	5,100	5,100
TOTAL, OPERATION AND MAINTENANCE, MARINE CORPS	5,123,470	1,109,791
OPERATION AND MAINTENANCE, AIR FORCE		
11A PRIMARY COMBAT FORCES (GWOT)	163,632	163,632
11C COMBAT ENHANCEMENT FORCES (GWOT)	1,049,170	1,014,170
Program decrease unaccounted for		-35,000
11D AIR OPERATIONS TRAINING (GWOT)	111,808	111,808
11M DEPOT MAINTENANCE (GWOT)	3,743,491	1,158,699
Transfer to title II		-2,584,792

(113D)

O-1	Budget Request	Final Bill
11R REAL PROPERTY MAINTENANCE	613,875	137,264
Transfer to title II		-466,611
Unjustified growth		-10,000
11V CYBERSPACE SUSTAINMENT (GWOT)	238,872	10,061
Transfer to title II		-228,811
CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT		
11W (GWOT)	9,282,958	1,683,594
Transfer to title II		-7,579,364
Program decrease unaccounted for		-20,000
11Y FLYING HOUR PROGRAM (GWOT)	6,544,039	2,095,266
Transfer to title II		-4,048,773
Unjustified growth		-400,000
11Z BASE OPERATING SUPPORT (GWOT)	8,762,102	1,488,120
Transfer to title II		-7,223,982
Unjustified growth		-50,000
12A GLOBAL C3I AND EARLY WARNING (GWOT)	13,863	13,863
12C OTHER COMBAT OPS SPT PROGRAMS (GWOT)	272,020	250,020
Unjustified growth		-22,000
12D CYBERSPACE ACTIVITIES (GWOT)	17,657	17,657
12F TACTICAL INTEL AND OTHER SPECIAL ACTIVITIES (GWOT)	36,098	36,098
13A LAUNCH FACILITIES (GWOT)	391	391
13C SPACE CONTROL SYSTEMS (GWOT)	39,990	39,990
15C US NORTHCOM/NORAD (GWOT)	725	725
15D US STRATCOM (GWOT)	926	926
15E US CYBERCOM (GWOT)	35,189	35,189
15F US CENTCOM (GWOT)	163,015	163,015
15G US SOCOM (GWOT)	19,000	19,000
21A AIRLIFT OPERATIONS (GWOT)	1,271,439	1,271,439
21D MOBILIZATION PREPAREDNESS (GWOT)	109,682	109,682
31A OFFICER ACQUISITION (GWOT)	200	200
31B RECRUIT TRAINING (GWOT)	352	352
32A SPECIALIZED SKILL TRAINING (GWOT)	26,802	26,802

113E

O-1	Budget Request	Final Bill
32B FLIGHT TRAINING (GWOT)	844	844
32C PROFESSIONAL DEVELOPMENT EDUCATION (GWOT)	1,199	1,199
32D TRAINING SUPPORT (GWOT)	1,320	1,320
41A LOGISTICS OPERATIONS (GWOT)	164,701	164,701
41B TECHNICAL SUPPORT ACTIVITIES (GWOT)	11,608	11,608
42A ADMINISTRATION (GWOT)	4,814	4,814
42B SERVICEWIDE COMMUNICATIONS (GWOT)	145,204	145,204
42G OTHER SERVICEWIDE ACTIVITIES (GWOT)	98,841	98,841
44A INTERNATIONAL SUPPORT (GWOT)	29,890	29,890
43A OTHER PROGRAMS (GWOT)	52,995	52,995
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE	33,028,712	10,359,379
OPERATION AND MAINTENANCE, DEFENSE-WIDE		
1PL1 JOINT CHIEFS OF STAFF (GWOT)	21,866	21,866
8PL1 JOINT CHIEFS OF STAFF CE2T2 (GWOT)	6,634	6,634
SPECIAL OPERATIONS COMMAND COMBAT DEVELOPMENT		
1PL6 ACTIVITIES (GWOT)	1,121,580	1,090,282
Classified adjustment		-10,000
Classified adjustment		-21,298
1PLU SPECIAL OPERATIONS COMMAND INTELLIGENCE (GWOT)	1,328,201	1,313,201
Program transition unaccounted for		-15,000
1PL7 SPECIAL OPERATIONS COMMAND MAINTENANCE (GWOT)	399,845	399,845
SPECIAL OPERATIONS COMMAND OPERATIONAL SUPPORT		
1PLV (GWOT)	138,458	138,458
1PLR SPECIAL OPERATIONS COMMAND THEATER FORCES (GWOT)	808,729	807,793
Unjustified growth		-936
4GT6 DEFENSE CONTRACT AUDIT AGENCY (GWOT)	1,810	1,810
4GTO DEFENSE CONTRACT MANAGEMENT AGENCY (GWOT)	21,723	21,723
4GT9 DEFENSE INFORMATION SYSTEMS AGENCY (GWOT)	81,133	81,133
4GU9 DEFENSE INFORMATION SYSTEMS AGENCY - CYBER (GWOT)	3,455	3,455

O-1	Budget Request	Final Bill
4GTA DEFENSE LEGAL SERVICES AGENCY (GWOT)	196,124	196,124
ES18 DEFENSE MEDIA ACTIVITY (GWOT)	14,377	14,377
4GTD DEFENSE SECURITY COOPERATION AGENCY (GWOT)	1,927,217	1,439,178
Program adjustment - Security Cooperation Account		-62,790
Transfer to Counter-ISIS Train and Equip Fund for border security		-250,000
Program increase -Baltics regional air defense system		50,000
Program adjustment - George C. Marshall Center Outreach		-249
Program adjustment - Coalition Support Fund		-225,000
4GTI DEFENSE THREAT REDUCTION AGENCY (GWOT)	317,558	317,558
4GTJ DEPARTMENT OF DEFENSE EDUCATION AGENCY (GWOT)	31,620	31,620
4GTN OFFICE OF THE SECRETARY OF DEFENSE (GWOT)	16,666	16,666
4GTQ WASHINGTON HEADQUARTERS SERVICES (GWOT)	6,331	6,331
OTHER PROGRAMS (GWOT)	2,005,285	1,895,139
Classified adjustment		-29,646
Transfer to title II		-80,500
TOTAL, OPERATION AND MAINTENANCE, DEFENSE-WIDE	8,448,612	7,803,193
OPERATION AND MAINTENANCE, ARMY RESERVE		
112 MODULAR SUPPORT BRIGADES (GWOT)	11,927	0
Transfer to title II		-11,927
113 ECHELONS ABOVE BRIGADE (GWOT)	553,455	20,440
Transfer to title II		-533,015
114 THEATER LEVEL ASSETS (GWOT)	119,517	0
Transfer to title II		-119,517
115 LAND FORCES OPERATIONS SUPPORT (GWOT)	550,468	0
Transfer to title II		-550,468
116 AVIATION ASSETS (GWOT)	86,670	0
Transfer to title II		-86,670
LAND FORCES READINESS		
121 FORCES READINESS OPERATIONS SUPPORT (GWOT)	689	689
123 LAND FORCES DEPOT MAINTENANCE (GWOT)	48,503	0
Transfer to title II		-48,503
131 BASE OPERATIONS SUPPORT (GWOT)	615,370	16,463
Transfer title II		-598,907
TOTAL, OPERATION AND MAINTENANCE, ARMY RESERVE	1,986,599	37,592

(1134)

O-1	Budget Request	Final Bill
OPERATION AND MAINTENANCE, NAVY RESERVE		
1A1A MISSION AND OTHER FLIGHT OPERATIONS (GWOT)	654,220	0
Transfer to title II		-654,220
1A3A INTERMEDIATE MAINTENANCE (GWOT)	510	510
1A5A AIRCRAFT DEPOT MAINTENANCE (GWOT)	119,864	11,628
Transfer to title II		-108,236
1C6C COMBAT SUPPORT FORCES (GWOT)	10,898	10,898
BSSR BASE OPERATING SUPPORT (GWOT)	101,376	0
Transfer to title II		-101,376
TOTAL, OPERATION AND MAINTENANCE, NAVY RESERVE	886,868	23,036
OPERATION AND MAINTENANCE, MARINE CORPS RESERVE		
1A1A OPERATING FORCES (GWOT)	114,111	7,627
Transfer to title II		-106,484
1A3A DEPOT MAINTENANCE (GWOT)	18,429	0
Transfer to title II		-18,429
BSS1 BASE OPERATING SUPPORT (GWOT)	107,153	1,080
Transfer to title II		-106,073
TOTAL, OPERATION & MAINTENANCE, MARINE CORPS RESERVE	239,693	8,707
OPERATION AND MAINTENANCE, AIR FORCE RESERVE		
11M DEPOT MAINTENANCE (GWOT)	518,423	24,188
Transfer to title II		-494,235
CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT		
11W (GWOT)	256,512	0
Transfer to title II		-256,512
11Z BASE OPERATING SUPPORT (GWOT)	420,196	5,570
Transfer to title II		-414,626
TOTAL, OPERATION AND MAINTENANCE, AIR FORCE RESERVE	1,195,131	29,758

(1134)

O-1	Budget Request	Final Bill
OPERATION AND MAINTENANCE, ARMY NATIONAL GUARD		
111 MANEUVER UNITS (GWOT)	851,567	45,896
Transfer to title II		-805,671
112 MODULAR SUPPORT BRIGADES (GWOT)	195,514	180
Transfer to title II		-195,334
113 ECHELONS ABOVE BRIGADE (GWOT)	774,030	2,982
Transfer to title II		-771,048
114 THEATER LEVEL ASSETS (GWOT)	95,274	548
Transfer to title II		-94,726
115 LAND FORCES OPERATIONS SUPPORT (GWOT)	33,696	0
Transfer to title II		-33,696
116 AVIATION ASSETS (GWOT)	991,048	9,229
Transfer to title II		-981,819
121 FORCE READINESS OPERATIONS SUPPORT (GWOT)	1,584	1,584
123 LAND FORCES DEPOT MAINTENANCE (GWOT)	258,278	0
Transfer to title II		-258,278
131 BASE OPERATIONS SUPPORT (GWOT)	1,175,139	22,063
Transfer to title II		-1,153,076
133 MANAGEMENT AND OPERATIONAL HQ (GWOT)	606	606
432 SERVICEWIDE COMMUNICATIONS (GWOT)	203	203
TOTAL, OPERATION & MAINTENANCE, ARMY NATIONAL GUARD	4,376,939	83,291
OPERATION AND MAINTENANCE, AIR NATIONAL GUARD		
11G MISSION SUPPORT OPERATIONS (GWOT)	3,666	3,666
11M DEPOT MAINTENANCE (GWOT)	946,411	66,944
Transfer to title II		-879,467
11V CYBERSPACE SUSTAINMENT (GWOT)	24,742	0
Transfer to title II		-24,742
CONTRACTOR LOGISTICS SUPPORT AND SYSTEM SUPPORT		
11W (GWOT)	1,392,709	93,620
Transfer to title II		-1,299,089
11Z BASE SUPPORT (GWOT)	924,454	12,679
Transfer to title II		-911,775
TOTAL, OPERATION & MAINTENANCE, AIR NATIONAL GUARD	3,291,982	176,909

113I

AFGHANISTAN SECURITY FORCES FUND

AFGHAN NATIONAL ARMY	1,589,658	1,589,658
Sustainment	1,313,047	1,313,047
Infrastructure	37,152	37,152
Equipment and Transportation	120,868	120,868
Training and Operations	118,591	118,591
AFGHAN NATIONAL POLICE	660,357	660,357
Sustainment	422,806	422,806
Infrastructure	2,358	2,358
Equipment and Transportation	127,081	127,081
Training and Operations	108,112	108,112
AFGHAN AIR FORCE	1,825,515	1,825,515
Sustainment	893,829	893,829
Infrastructure	8,611	8,611
Equipment and Transportation	566,967	566,967
Training and Operations	356,108	356,108
AFGHAN SPECIAL SECURITY FORCES	728,448	728,448
Sustainment	437,909	437,909
Infrastructure	21,131	21,131
Equipment and Transportation	153,806	153,806
Training and Operations	115,602	115,602
UNDISTRIBUTED REDUCTION		-604,000

TOTAL, AFGHANISTAN SECURITY FORCES FUND	4,803,978	4,199,978
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COUNTER-ISIS TRAIN AND EQUIP FUND

IRAQ	745,000	745,000
SYRIA	300,000	200,000
TRANSFER FROM DEFENSE SECURITY COOPERATION AGENCY FORCES FUND		250,000

TOTAL, COUNTER-ISIS TRAIN AND EQUIP FUND	1,045,000	1,195,000
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TOTAL, OPERATION AND MAINTENANCE	134,149,216	53,891,051
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AIR FORCE FLYING HOUR FUNDING EXECUTION FOR OVERSEAS CONTINGENCY
OPERATIONS

The review of the fiscal year 2020 budget request uncovered some disturbing data points that have called the budget formulation process for flying hours in the overseas contingency operations (OCO) request into question. Budget execution data revealed that the Air Force moved approximately \$594,000,000 in fiscal year 2018 and \$695,000,000 in fiscal year 2019 from OCO flying hours to other OCO expenses. It is acknowledged that budgetary requirements change, perhaps even more so with the dynamic nature of overseas contingency operations. Accordingly, the House and Senate Appropriations Committees provide flexibility for these emerging requirements by providing procedures on how the Services are able to make budgetary realignments. However, the Air Force has chosen to apply these procedures differently than intended. This means that over \$1,289,000,000 of OCO funding has been spent by the Air Force over the past two fiscal years on unbudgeted expenses. Frustratingly, it was only after the fact that the congressional defense committees found out what was purchased with the asset provided from the flying hour account.

The fact that the Air Force has moved roughly 25 percent from the OCO flying hour funding request for each of the past two years indicates more of a fundamental issue with the initial request as opposed to an anomaly. Therefore, the agreement includes a new reduction to the Air Force OCO flying hours funding request to more closely align with historical execution.

COUNTER-ISIS TRAIN AND EQUIP FUND

The agreement continues support under this heading for the Iraqi Security Forces, Kurdish Peshmerga, and the Syrian Democratic Forces to participate in activities to counter ISIS and their associated groups. The agreement does not include funding for Iraqi security forces that are not engaged in such activities and continues the requirement that the Secretary of Defense ensure elements are appropriately vetted and receiving commitments from them to promote respect for human rights and the rule of law.

The Secretary of Defense has not fully complied with the quarterly reporting requirements under this heading in the Department of Defense Appropriations Act, 2019 (division A of Public Law 115–245) and is directed to submit all overdue reports not later than 45 days after the enactment of this Act.

JORDAN

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

PROCUREMENT

The agreement provides \$11,793,461,000 for Procurement, as follows:

~~(INSERT PROCUREMENT OCO TABLE)~~

insert 110A-S

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

P-1	Budget Request	Final Bill
AIRCRAFT PROCUREMENT, ARMY		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
3 MQ-1 UAV Program increase - additional aircraft	54,000	144,000 90,000
15 CH-47	25,000	25,000
21 MULTI SENSOR ABN RECON	80,260	80,260
24 GRCS SEMA MODS	750	750
26 EMARSS SEMA MODS	22,180	22,180
27 UTILITY/CARGO AIRPLANE MODS	8,362	8,362
29 NETWORK AND MISSION PLAN	10	10
31 DEGRADED VISUAL ENVIRONMENT	49,450	49,450
33 RQ-7 UAV MODS Program increase	0	60,000 60,000
37 CMWS	130,219	130,219
38 COMMON INFRARED COUNTERMEASURES (CIRCM)	9,310	9,310
45 LAUNCHER GUIDED MISSILE: LONGBOW HELLFIRE	2,000	2,000
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	381,541	531,541
TOTAL, AIRCRAFT PROCUREMENT, ARMY	381,541	531,541

MISSILE PROCUREMENT, ARMY		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
2 M-SHORAD	158,300	158,300
3 MSE MISSILE	37,938	37,938
6 HELLFIRE SYSTEM SUMMARY	236,265	236,265
8 JAVELIN (AAWS-M) SYSTEM SUMMARY	4,389	4,389
11 GUIDED MLRS ROCKET (GMLRS)	431,596	431,596
14 ATACMS SYSTEM SUMMARY	130,770	130,770

(116A)

P-1	Budget Request	Final Bill
15 LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS)	83,300	83,300
19 STINGER MODS	7,500	7,500
22 MLRS MODS Unjustified spares growth	348,000	333,531 -14,469
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	1,438,058	1,423,589
OCO/GWOT FOR BASE REQUIREMENTS		
1 SYSTEM INTEGRATION AND TEST Transfer to title III	113,857	0 -113,857
2 M-SHORAD Transfer to title III	103,800	0 -103,800
3 MSE MISSILE Transfer to title III	698,603	0 -698,603
4 INDIRECT FIRE PROTECTION CAPABILITY INC 2-1 Transfer to title III	9,337	0 -9,337
6 HELLFIRE SYSTEM SUMMARY Transfer to title III	193,284	0 -193,284
7 JAGM Transfer to title III	233,353	0 -233,353
8 JAVELIN (AAWS-M) SYSTEM SUMMARY Transfer to title III	138,405	0 -138,405
9 TOW 2 SYSTEM SUMMARY Transfer to title III	114,340	0 -114,340
10 TOW 2 SYSTEM SUMMARY (AP) Transfer to title III	10,500	0 -10,500
11 GUIDED MLRS ROCKET (GMLRS) Transfer to title III	797,213	0 -797,213
12 MLRS REDUCED RANGE PRACTICE ROCKETS (RRPR) Transfer to title III	27,555	0 -27,555
14 ATACMS SYSTEM SUMMARY Transfer to title III	209,842	0 -209,842
16 PATRIOT MODS Transfer to title III	279,464	0 -279,464
17 ATACMS MODS Transfer to title III	85,320	0 -85,320

(116B)

P-1	Budget Request	Final Bill
18 GMLRS MODS Transfer to title III	5,094	0 -5,094
19 STINGER MODS Transfer to title III	81,615	0 -81,615
20 AVENGER MODS Transfer to title III	14,107	0 -14,107
21 ITAS/TOW MODS Transfer to title III	3,469	0 -3,469
22 MLRS MODS Transfer to title III	39,019	0 -39,019
23 HIMARS MODS Transfer to title III	12,483	0 -12,483
24 SPARES AND REPAIR PARTS Transfer to title III	26,444	0 -26,444
25 AIR DEFENSE TARGETS Transfer to title III	10,593	0 -10,593
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	3,207,697	0
TOTAL, MISSILE PROCUREMENT, ARMY	4,645,755	1,423,589

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS

2 ARMORED MULTI PURPOSE VEHICLE (AMPV) Revised vehicle pricing estimate	221,638	214,490 -7,148
3 STRYKER (MOD)	4,100	4,100
8 IMPROVED RECOVERY VEHICLE (M88A2 HERCULES)	80,146	80,146
13 M1 ABRAMS TANK (MOD)	13,100	13,100
15 M240 MEDIUM MACHINE GUN (7.62MM)	900	900
16 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYS	2,400	2,400
19 MORTAR SYSTEMS	18,941	18,941
20 XM320 GRENADE LAUNCHER MODULE (GLM)	526	526
23 CARBINE	1,183	1,183
25 COMMON REMOTELY OPERATED WEAPONS STATION	4,182	4,182

116C

P-1	Budget Request	Final Bill
26 HANDGUN	248	248
31 M2 50 CAL MACHINE GUN MODS	6,090	6,090
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	353,454	346,306
<hr/>		
TOTAL, PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY	353,454	346,306
<hr/>		
PROCUREMENT OF AMMUNITION, ARMY		
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OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS

1 CTG, 5.56MM, ALL TYPES	567	567
2 CTG, 7.62MM, ALL TYPES	40	40
3 CTG, HANDGUN, ALL TYPES	17	17
4 CTG, .50 CAL, ALL TYPES	189	189
7 CTG, 30MM, ALL TYPES	24,900	24,900
15 PROJ 155MM EXTENDED RANGE M982	36,052	36,052
16 ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES	7,271	7,271
19 SHOULDER LAUNCHED MUNITIONS, ALL TYPES	176	176
20 ROCKET, HYDRA 70, ALL TYPES	79,459	79,459
27 ITEMS LESS THAN \$5M (AMMO)	11	11
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	148,682	148,682

OCO/GWOT FOR BASE REQUIREMENTS

1 CTG, 5.56MM, ALL TYPES Transfer to title III	68,949	0 -68,949
2 CTG, 7.62MM, ALL TYPES Transfer to title III	114,228	0 -114,228
3 CTG, HANDGUN, ALL TYPES Transfer to title III	17,807	0 -17,807
4 CTG, 50 CAL, ALL TYPES Transfer to title III	63,966	0 -63,966
5 CTG, 20MM, ALL TYPES Transfer to title III	35,920	0 -35,920

116D

P-1		Budget Request	Final Bill
6	CTG, 25MM, ALL TYPES Transfer to title III	8,990	0 -8,990
7	CTG, 30MM, ALL TYPES Transfer to title III	68,813	0 -68,813
8	CTG, 40MM, ALL TYPES Transfer to title III	103,952	0 -103,952
9	60MM MORTAR, ALL TYPES Transfer to title III	50,580	0 -50,580
10	81MM MORTAR, ALL TYPES Transfer to title III	59,373	0 -59,373
11	120MM MORTAR, ALL TYPES Transfer to title III	125,452	0 -125,452
12	CARTRIDGES, TANK, 105MM AND 120MM, ALL TYPES Transfer to title III	171,284	0 -171,284
13	ARTILLERY CARTRIDGES, 75MM & 105MM, ALL TYPES Transfer to title III	44,675	0 -44,675
14	ARTILLERY PROJECTILE, 155MM, ALL TYPES Transfer to title III	266,037	0 -266,037
15	PROJ 155MM EXTENDED RANGE M982 Transfer to title III	57,434	0 -57,434
16	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES Transfer to title III	271,602	0 -271,602
17	MINES AND CLEARING CHARGES, ALL TYPES Transfer to title III	55,433	0 -55,433
18	SHOULDER LAUNCHED MUNITIONS, ALL TYPES Transfer to title III	74,878	0 -74,878
19	ROCKET, HYDRA 70, ALL TYPES Transfer to title III	175,994	0 -175,994
20	CAD/PAD, ALL TYPES Transfer to title III	7,595	0 -7,595
21	DEMOLITION MUNITIONS, ALL TYPES Transfer to title III	51,651	0 -51,651
22	GRENADES, ALL TYPES Transfer to title III	40,592	0 -40,592
23	SIGNALS, ALL TYPES Transfer to title III	18,609	0 -18,609

116E

P-1	Budget Request	Final Bill
24 SIMULATORS, ALL TYPES Transfer to title III	16,054	0 -16,054
25 AMMO COMPONENTS, ALL TYPES Transfer to title III	5,261	0 -5,261
26 NON-LETHAL AMMUNITION, ALL TYPES Transfer to title III	715	0 -715
27 ITEMS LESS THAN \$5M (AMMO) Transfer to title III	9,213	0 -9,213
28 AMMUNITION PECULIAR EQUIPMENT Transfer to title III	10,044	0 -10,044
29 FIRST DESTINATION TRANSPORT (AMMO) Transfer to title III	18,492	0 -18,492
30 CLOSEOUT LIABILITIES Transfer to title III	99	0 -99
31 INDUSTRIAL FACILITIES Transfer to title III	474,511	0 -474,511
32 CONVENTIONAL MUNITIONS DEMILITARIZATION Transfer to title III	202,512	0 -202,512
33 ARMS INITIATIVE Transfer to title III	3,833	0 -3,833
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	2,694,548	0
TOTAL, PROCUREMENT OF AMMUNITION, ARMY	2,843,230	148,682

OTHER PROCUREMENT, ARMY

OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
10 FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)	26,917	26,917
11 PLS ESP	16,941	16,941
12 HEAVY EXPANDED MOBILE TACTICAL TRUCK EXT SERV	62,734	62,734
14 TACTICAL WHEELED VEHICLE PROTECTION KITS	50,000	50,000
15 MODIFICATION OF IN SERVICE EQUIPMENT Program management carryover	28,000	26,515 -1,485
22 TACTICAL NETWORK TECHNOLOGY MOD IN SERVICE	40,000	40,000
29 TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	6,930	6,930

(116F)

P-1	Budget Request	Final Bill
31 ASSURED POSITIONING, NAVIGATION AND TIMING	11,778	11,778
32 SMART-T (SPACE)	825	825
40 RADIO TERMINAL SET, MIDS LVT(2)	350	350
47 COTS COMMUNICATION EQUIPMENT	20,400	20,400
48 FAMILY OF MED COMM FOR COMBAT CASUALTY CARE	1,231	1,231
51 CI AUTOMATION ARCHITECTURE	6,200	6,200
59 BASE SUPPORT COMMUNICATIONS	20,482	20,482
60 INFORMATION SYSTEMS	55,800	55,800
63 INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	75,820	75,820
68 DCGS-A	38,613	38,613
70 TROJAN	1,337	1,337
71 MOD OF IN-SVC EQUIPMENT (INTEL SUPPORT)	2,051	2,051
75 BIOMETRIC TACTICAL COLLECTION DEVICES	1,800	1,800
82 FAMILY OF PERSISTENT SURVEILLANCE CAP MX sensors unjustified growth	71,493	31,493 -40,000
83 COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	6,917	6,917
85 SENTINEL MODS	20,000	20,000
86 NIGHT VISION DEVICES	3,676	3,676
94 JOINT BATTLE COMMAND - PLATFORM (JBC-P)	25,568	25,568
97 COMPUTER BALLISTICS: LHMCB XM32	570	570
98 MORTAR FIRE CONTROL SYSTEM	15,975	15,975
103 AIR AND MSL DEFENSE PLANNING & CONTROL SYS	14,331	14,331
112 ARMY TRAINING MODERNIZATION	6,014	6,014
113 AUTOMATED DATA PROCESSING EQUIPMENT	32,700	32,700
124 FAMILY OF NON-LETHAL EQUIPMENT (FNLE)	25,480	25,480
125 BASE DEFENSE SYSTEMS (BDS) Unjustified growth	47,110	39,984 -7,126
126 CBRN DEFENSE Unit cost discrepancies	18,711	17,461 -1,250

1164

P-1	Budget Request	Final Bill
128 TACTICAL BRIDGING	4,884	4,884
133 GROUND STANDOFF MINE DETECTION SYSTEM (GSTAMIDS) Unit cost discrepancies	4,500	3,655 -845
135 HUSKY MOUNTED DETECTION SYSTEM (HMDS) Unit cost discrepancies	34,253	28,071 -6,182
136 ROBOTIC COMBAT SUPPORT SYSTEM (RCSS)	3,300	3,300
140 RENDER SAFE SETS KITS OUTFITS	84,000	84,000
143 HEATERS AND ECUS	8	8
145 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)	5,101	5,101
146 GROUND SOLDIER SYSTEM	1,760	1,760
148 FORCE PROVIDER	56,400	56,400
150 CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM	2,040	2,040
154 DISTRIBUTION SYSTEMS, PETROLEUM & WATER HIPPO unit cost growth	13,986	12,409 -1,577
155 COMBAT SUPPORT MEDICAL	2,735	2,735
159 SCRAPERS, EARTHMOVING Narrative discrepancies	4,669	3,910 -759
160 LOADERS	380	380
162 TRACTOR, FULL TRACKED	8,225	8,225
164 HIGH MOBILITY ENGINEER EXCAVATOR (HMEE)	3,000	3,000
166 CONST EQUIP ESP	3,870	3,870
167 ITEMS LESS THAN \$5M (CONST EQUIP)	350	350
171 GENERATORS AND ASSOCIATED EQUIP	2,436	2,436
173 FAMILY OF FORKLIFTS	5,152	5,152
175 TRAINING DEVICES, NONSYSTEM	2,106	2,106
181 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE)	1,395	1,395
184 RAPID EQUIPPING SOLDIER SUPPORT EQUIPMENT Overestimation of requirements	24,122	18,000 -6,122
185 PHYSICAL SECURITY SYSTEMS (OPA3)	10,016	10,016
187 MODIFICATION OF IN-SERVICE EQUIPMENT (OPA3)	33,354	33,354

1164

P-1	Budget Request	Final Bill
189 BUILDING, PRE-FAB, RELOCATABLE Army requested transfer from title III	62,654	77,054 14,400
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	1,131,450	1,080,504
OCO/GWOT FOR BASE REQUIREMENTS		
999 CLASSIFIED PROGRAMS Transfer to title III	8,200	0 -8,200
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	8,200	0
TOTAL, OTHER PROCUREMENT, ARMY	1,139,650	1,080,504

AIRCRAFT PROCUREMENT, NAVY

OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
26 STUASL0 UAV	7,921	7,921
27 MQ-9 REAPER Program decrease - new production aircraft	77,000	53,108 -23,892
36 EP-3 SERIES	5,488	5,488
46 SPECIAL PROJECT AIRCRAFT	3,498	3,498
51 COMMON ECM EQUIPMENT	3,406	3,406
53 COMMON DEFENSIVE WEAPON SYSTEM	3,274	3,274
62 QRC	18,458	18,458
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	119,045	95,153
TOTAL, AIRCRAFT PROCUREMENT, NAVY	119,045	95,153

WEAPONS PROCUREMENT, NAVY

OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
5 SIDEWINDER Program increase - additional munitions	0	34,200 34,200
11 JAGM Contract delays	90,966	75,729 -15,237
15 AERIAL TARGETS	6,500	6,500
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	97,466	116,429

116I

OCO/GWOT FOR BASE REQUIREMENTS

	Budget Request	Final Bill
1 TRIDENT II MODS	1,177,251	0
Transfer to title III		-1,177,251
2 MISSILE INDUSTRIAL FACILITIES	7,142	0
Transfer to title III		-7,142
3 TOMAHAWK	386,730	0
Transfer to title III		-386,730
4 AMRAAM	224,502	0
Transfer to title III		-224,502
5 SIDEWINDER	119,456	0
Transfer to title III		-119,456
7 STANDARD MISSILE	404,523	0
Transfer to title III		-404,523
8 STANDARD MISSILE (AP-CY)	96,085	0
Transfer to title III		-96,085
9 SMALL DIAMETER BOMB II	118,466	0
Transfer to title III		-118,466
10 RAM	106,765	0
Transfer to title III		-106,765
12 HELLFIRE	1,525	0
Transfer to title III		-1,525
15 AERIAL TARGETS	145,880	0
Transfer to title III		-145,880
16 DRONES AND DECOYS	20,000	0
Transfer to title III		-20,000
17 OTHER MISSILE SUPPORT	3,388	0
Transfer to title III		-3,388
18 LRASM	143,200	0
Transfer to title III		-143,200
19 LCS OTH MISSILE	38,137	0
Transfer to title III		-38,137
20 ESSM	128,059	0
Transfer to title III		-128,059
21 HARPOON MODS	25,447	0
Transfer to title III		-25,447

P-1		Budget Request	Final Bill
22	HARM MODS Transfer to title III	183,740	0 -183,740
23	STANDARD MISSILE MODS Transfer to title III	22,500	0 -22,500
24	WEAPONS INDUSTRIAL FACILITIES Transfer to title III	1,958	0 -1,958
25	FLEET SATELLITE COMM FOLLOW-ON Transfer to title III	67,380	0 -67,380
27	ORDNANCE SUPPORT EQUIPMENT Transfer to title III	109,427	0 -109,427
28	SSTD Transfer to title III	5,561	0 -5,561
29	MK-48 TORPEDO Transfer to title III	114,000	0 -114,000
30	ASW TARGETS Transfer to title III	15,095	0 -15,095
31	MK-54 TORPEDO MODS Transfer to title III	119,453	0 -119,453
32	MK-48 TORPEDO ADCAP MODS Transfer to title III	39,508	0 -39,508
33	QUICKSTRIKE MINE Transfer to title III	5,183	0 -5,183
34	TORPEDO SUPPORT EQUIPMENT Transfer to title III	79,028	0 -79,028
35	ASW RANGE SUPPORT Transfer to title III	3,890	0 -3,890
36	FIRST DESTINATION TRANSPORTATION Transfer to title III	3,803	0 -3,803
37	SMALL ARMS AND WEAPONS Transfer to title III	14,797	0 -14,797
38	CIWS MODS Transfer to title III	44,126	0 -44,126
39	COAST GUARD WEAPONS Transfer to title III	44,980	0 -44,980
40	GUN MOUNT MODS Transfer to title III	66,376	0 -66,376

116K

P-1	Budget Request	Final Bill
41 LCS MODULE WEAPONS	14,585	0
Transfer to title III		-14,585
43 AIRBORNE MINE NEUTRALIZATION SYSTEMS	7,160	0
Transfer to title III		-7,160
45 SPARES AND REPAIR PARTS	126,138	0
Transfer to title III		-126,138
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	4,235,244	0
TOTAL, WEAPONS PROCUREMENT, NAVY	4,332,710	116,429

PROCUREMENT OF AMMO, NAVY & MARINE CORPS

OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS

1 GENERAL PURPOSE BOMBS	26,978	26,978
2 JDAM	12,263	12,263
3 AIRBORNE ROCKETS, ALL TYPES	45,020	45,020
4 MACHINE GUN AMMUNITION	33,577	33,577
5 PRACTICE BOMBS	11,903	11,903
6 CARTRIDGES & CART ACTUATED DEVICES	15,081	15,081
7 AIR EXPENDABLE COUNTERMEASURES	16,911	16,911
11 OTHER SHIP GUN AMMUNITION	3,262	3,262
12 SMALL ARMS & LANDING PARTY AMMO	1,010	1,010
13 PYROTECHNIC AND DEMOLITION	537	537
16 MORTARS	1,930	1,930
17 DIRECT SUPPORT MUNITIONS	1,172	1,172
18 INFANTRY WEAPONS AMMUNITION	2,158	2,158
19 COMBAT SUPPORT MUNITIONS	965	965
21 ARTILLERY MUNITIONS	32,047	32,047
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	204,814	204,814

OCO/GWOT FOR BASE REQUIREMENTS

1 GENERAL PURPOSE BOMBS	36,028	0
Transfer to title III		-36,028

116L

P-1		Budget Request	Final Bill
2	JDAM Transfer to title III	70,413	0 -70,413
3	AIRBORNE ROCKETS, ALL TYPES Transfer to title III	31,756	0 -31,756
4	MACHINE GUN AMMUNITION Transfer to title III	4,793	0 -4,793
5	PRACTICE BOMBS Transfer to title III	34,708	0 -34,708
6	CARTRIDGES & CART ACTUATED DEVICES Transfer to title III	45,738	0 -45,738
7	AIR EXPENDABLE COUNTERMEASURES Transfer to title III	77,301	0 -77,301
8	JATOS Transfer to title III	7,262	0 -7,262
9	5 INCH/54 GUN AMMUNITION Transfer to title III	22,594	0 -22,594
10	INTERMEDIATE CALIBER GUN AMMUNITION Transfer to title III	37,193	0 -37,193
11	OTHER SHIP GUN AMMUNITION Transfer to title III	39,491	0 -39,491
12	SMALL ARMS & LANDING PARTY AMMO Transfer to title III	47,896	0 -47,896
13	PYROTECHNIC AND DEMOLITION Transfer to title III	10,621	0 -10,621
15	AMMUNITION LESS THAN \$5M Transfer to title III	2,386	0 -2,386
16	MORTARS Transfer to title III	55,543	0 -55,543
17	DIRECT SUPPORT MUNITIONS Transfer to title III	131,765	0 -131,765
18	INFANTRY WEAPONS AMMUNITION Transfer to title III	78,056	0 -78,056
19	COMBAT SUPPORT MUNITIONS Transfer to title III	40,048	0 -40,048
20	AMMO MODERNIZATION Transfer to title III	14,325	0 -14,325

116M

P-1	Budget Request	Final Bill
21 ARTILLERY MUNITIONS	188,876	0
Transfer to title III		-188,876
22 ITEMS LESS THAN \$5M	4,521	0
Transfer to title III		-4,521
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	981,314	0
TOTAL, PROCUREMENT OF AMMO, NAVY & MARINE CORPS	1,186,128	204,814
OTHER PROCUREMENT, NAVY		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
20 UNDERWATER EOD PROGRAMS	5,800	5,800
42 FIXED SURVEILLANCE SYSTEM	310,503	310,503
85 SONOBUOYS - ALL TYPES	2,910	2,910
88 AIRCRAFT SUPPORT EQUIPMENT	13,420	13,420
94 AVIATION SUPPORT EQUIPMENT	500	500
103 EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT	15,307	9,007
Navy EOD equipment unjustified request		-6,300
108 PASSENGER CARRYING VEHICLES	173	173
109 GENERAL PURPOSE TRUCKS	408	408
111 FIRE FIGHTING EQUIPMENT	785	735
Excess cost growth		-50
117 SUPPLY EQUIPMENT	100	100
118 FIRST DESTINATION TRANSPORTATION	510	510
122 COMMAND SUPPORT EQUIPMENT	2,800	2,800
123 MEDICAL SUPPORT EQUIPMENT	1,794	1,794
126 OPERATING FORCES SUPPORT EQUIPMENT	1,090	1,090
128 ENVIRONMENTAL SUPPORT EQUIPMENT	200	200
129 PHYSICAL SECURITY EQUIPMENT	1,300	1,300
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	357,600	351,250
TOTAL, OTHER PROCUREMENT, NAVY	357,600	351,250

(116N)

P-1	Budget Request	Final Bill
PROCUREMENT, MARINE CORPS		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
12 GUIDED MLRS ROCKET (GMLRS)	16,919	16,919
45 EOD SYSTEMS	3,670	3,670
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	20,589	20,589
TOTAL, PROCUREMENT, MARINE CORPS	20,589	20,589
AIRCRAFT PROCUREMENT, AIR FORCE		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
6 C-130J Program increase - four aircraft for the Air National Guard	0	338,000 338,000
17 MQ-9 Unit cost adjustment Program increase - twelve aircraft	172,240	376,440 -10,800 215,000
18 RQ-20B PUMA	12,150	12,150
22 LAIRCM	53,335	53,335
67 MQ-9 UAS PAYLOADS	19,800	19,800
69 INITIAL SPARES / REPAIR PARTS	44,560	44,560
72 AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT	7,025	7,025
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	309,110	851,310
TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE	309,110	851,310
MISSILE PROCUREMENT, AIR FORCE		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
4 JASSM	20,900	20,900
8 HELLFIRE	180,771	180,771
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	201,671	201,671
TOTAL, MISSILE PROCUREMENT, AIR FORCE	201,671	201,671

(1160)

P-1	Budget Request	Final Bill	
PROCUREMENT OF AMMUNITION, AIR FORCE			
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS			
1	ROCKETS	84,960	84,960
2	CARTRIDGES	52,642	52,642
4	GENERAL PURPOSE BOMBS	545,309	545,309
15	FLARES	93,272	93,272
16	FUZES	157,155	152,480
	FMU-152 cost growth		-4,675
17	SMALL ARMS	6,095	6,095
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		939,433	934,758
OCO/GWOT FOR BASE REQUIREMENTS			
1	ROCKETS	133,268	0
	Transfer to title III		-133,268
2	CARTRIDGES	140,449	0
	Transfer to title III		-140,449
3	PRACTICE BOMBS	29,313	0
	Transfer to title III		-29,313
4	GENERAL PURPOSE BOMBS	85,885	0
	Transfer to title III		-85,885
6	JDAM	1,066,224	0
	Transfer to title III		-1,066,224
7	B61	80,773	0
	Transfer to title III		-80,773
9	CAD/PAD	47,069	0
	Transfer to title III		-47,069
10	EXPLOSIVE ORDNANCE DISPOSAL	6,133	0
	Transfer to title III		-6,133
11	SPARES AND REPAIR PARTS	533	0
	Transfer to title III		-533
12	MODIFICATIONS	1,291	0
	Transfer to title III		-1,291
13	ITEMS LESS THAN \$5M	1,677	0
	Transfer to title III		-1,677

(116P)

P-1	Budget Request	Final Bill
15 FLARES	36,116	0
Transfer to title III		-36,116
16 FUZES	1,734	0
Transfer to title III		-1,734
17 SMALL ARMS	37,496	0
Transfer to title III		-37,496
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	1,667,961	0
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE	2,607,394	934,758
OTHER PROCUREMENT, AIR FORCE		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
1 PASSENGER CARRYING VEHICLES	1,276	1,276
4 CARGO AND UTILITY VEHICLES	9,702	9,702
5 JOINT LIGHT TACTICAL VEHICLE	40,999	40,999
7 SPECIAL PURPOSE VEHICLES	52,502	52,502
8 FIRE FIGHTING/CRASH RESCUE VEHICLES	16,652	16,652
9 MATERIALS HANDLING VEHICLES	2,944	2,944
10 RUNWAY SNOW REMOVAL AND CLEANING EQUIPMENT	3,753	3,753
11 BASE MAINTENANCE SUPPORT VEHICLES	11,837	11,837
27 GENERAL INFORMATION TECHNOLOGY	5,000	5,000
31 AIR FORCE PHYSICAL SECURITY SYSTEM	106,919	106,919
48 TACTICAL C-E EQUIPMENT	306	306
52 BASE COMM INFRASTRUCTURE	4,300	4,300
54 PERSONAL SAFETY AND RESCUE EQUIPMENT	22,200	22,200
59 MOBILITY EQUIPMENT	26,535	26,535
60 FUEL SUPPORT EQUIPMENT (FSE)	4,040	4,040
61 BASE MAINTENANCE AND SUPPORT EQUIPMENT	20,067	20,067
999 CLASSIFIED PROGRAMS	3,209,066	3,419,769
Classified adjustment		210,703
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	3,538,098	3,748,801

1160

P-1	Budget Request	Final Bill
OCO/GWOT FOR BASE REQUIREMENTS		
999 CLASSIFIED PROGRAMS	655,000	0
Transfer to title III		-444,297
Classified adjustment		-210,703
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	655,000	0
TOTAL, OTHER PROCUREMENT, AIR FORCE	4,193,098	3,748,801
PROCUREMENT, DEFENSE-WIDE		
OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS		
9 TELEPORT PROGRAM	3,800	3,800
12 DEFENSE INFORMATION SYSTEM NETWORK	12,000	12,000
27 COUNTER IED & IMPROVISED THREAT TECHNOLOGIES	4,590	4,590
999 CLASSIFIED PROGRAMS	51,380	48,452
Program decrease		-2,928
50 MANNED ISR	5,000	5,000
51 MC-12	5,000	5,000
52 MH-60 BLACKHAWK	28,100	25,264
Labor and program support excess growth		-2,836
54 UNMANNED ISR	8,207	8,207
56 U-28	31,500	31,500
57 MH-47 CHINOOK	37,500	34,281
Excess growth		-3,219
59 MQ-9 UAV	1,900	1,900
64 ORDNANCE ITEMS LESS THAN \$5M	138,252	138,252
65 INTELLIGENCE SYSTEMS	16,500	16,500
67 OTHER ITEMS LESS THAN \$5M	28	28
70 TACTICAL VEHICLES	2,990	2,990
71 WARRIOR SYSTEMS LESS THAN \$5M	37,512	37,512
72 COMBAT MISSION REQUIREMENTS	10,000	10,000
74 OPERATIONAL ENHANCEMENTS INTELLIGENCE	7,594	7,594

116R

P-1	Budget Request	Final Bill
75 OPERATIONAL ENHANCEMENTS	45,194	45,194
SUBTOTAL, OCO/GWOT FOR DIRECT WAR AND ENDURING COSTS	447,047	438,064
OCO/GWOT FOR BASE REQUIREMENTS		
999 CLASSIFIED PROGRAMS	5,000	0
Transfer to title III		-5,000
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	5,000	0
TOTAL, PROCUREMENT, DEFENSE-WIDE	452,047	438,064
NATIONAL GUARD & RESERVE EQUIPMENT		
TOTAL, NATIONAL GUARD & RESERVE EQUIPMENT	0	1,300,000
TOTAL PROCUREMENT	23,143,022	11,793,461

1165

NATIONAL GUARD AND RESERVE EQUIPMENT

The agreement provides \$1,300,000,000 for National Guard and Reserve Equipment. Of that amount \$395,000,000 is designated for the Army National Guard; \$395,000,000 for the Air National Guard; \$205,000,000 for the Army Reserve; \$75,000,000 for the Navy Reserve; \$25,000,000 for the Marine Corps Reserve; and \$205,000,000 for the Air Force Reserve.

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

The Secretary of Defense is directed to ensure that the account is executed by the Chiefs of the National Guard and reserve components with priority consideration given to the following items: acoustic hailing devices; cold weather and mountaineering gear and equipment, including small unit support vehicles; counter-UAS systems; crashworthy, ballistically tolerant auxiliary fuel systems; detect and avoid systems for MQ-9 aircraft; MQ-9 deployable launch and recovery element mission support kits; modular small arms range simulators; radiological screening portals; solar mobile power systems; and training systems and simulators.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The agreement provides \$834,222,000 for Research, Development, Test and Evaluation, as follows:

~~(INSERT RDTE OCO TABLE)~~

Insert 118A-C

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

R-1	Budget Request	Final Bill
RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY		
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS		
74 AIR AND MISSILE DEFENSE ENGINEERING	500	500
79 SOLDIER SUPPORT AND SURVIVABILITY	3,000	3,000
85 LOGISTICS AND ENGINEER EQUIPMENT ADV DEV	1,085	1,085
95 M-SHORAD Transfer to title IV	6,000	0 -6,000
97 ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING	4,529	4,529
105 INTEGRATED BASE DEFENSE (BA4)	2,000	2,000
151 COMMON INFRARED COUNTERMEASURES (CIRCM) QRC phase 3 development funding excess	11,770	0 -11,770
159 AIRCRAFT SURVIVABILITY DEVELOPMENT	77,420	77,420
163 ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	19,527	19,527
174 ELECTRONIC WARFARE DEVELOPMENT	3,200	3,200
200 COUNTERINTEL AND HUMAN INTEL MODERNIZATION	1,875	1,875
238 SECURITY AND INTELLIGENCE ACTIVITIES Unjustified increase	22,904	12,904 -10,000
246 TACTICAL UNMANNED AERIAL VEHICLES Duplicative research and development efforts	34,100	17,050 -17,050
247 AIRBORNE RECONNAISSANCE SYSTEMS Prior year carryover	14,000	2,000 -12,000
252 BIOMETRICS ENABLED INTELLIGENCE	2,214	2,214
SUBTOTAL, OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS	204,124	147,304
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY	204,124	147,304

118A

R-1	Budget Request	Final Bill
RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY		
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS		
28 AIR/OCEAN TACTICAL APPLICATIONS	2,400	2,400
38 RETRACT LARCH	22,000	22,000
57 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	14,178	14,178
69 LAND ATTACK TECHNOLOGY	1,428	1,428
143 SHIP SELF DEFENSE (DETECT & CONTROL)	1,122	1,122
228 MARINE CORPS COMMUNICATIONS SYSTEMS	15,000	15,000
999 CLASSIFIED PROGRAMS	108,282	108,282
SUBTOTAL, OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS	164,410	164,410
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY	164,410	164,410
RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE		
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS		
48 TECH TRANSITION PROGRAM	26,450	26,450
72 SPACE RAPID CAPABILITIES OFFICE	17,885	17,885
177 JOINT COUNTER RCIED ELECTRONIC WARFARE	4,000	4,000
217 INTEL DATA APPLICATIONS	1,200	1,200
999 CLASSIFIED PROGRAMS	78,713	78,713
SUBTOTAL, OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS	128,248	128,248
OCO/GWOT FOR BASE REQUIREMENTS		
999 CLASSIFIED PROGRAMS	322,000	0
Transfer to title IV		-322,000
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	322,000	0
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE	450,248	128,248

(118B)

R-1	Budget Request	Final Bill
RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE WIDE		
OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS		
10 COUNTER IMPROVISED-THREAT ADVANCED STUDIES	1,677	1,677
25 COMBATING TERRORISM TECHNOLOGY SUPPORT	25,230	25,230
27 COUNTER IMPROVISED-THREAT SIMULATION	49,528	49,528
94 COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING	113,590	113,590
258 OPERATIONAL ENHANCEMENTS	726	726
259 WARRIOR SYSTEMS	6,000	6,000
261 UNMANNED ISR	5,000	5,000
999 CLASSIFIED PROGRAMS	200,199	192,509
Program decrease		-7,690
SUBTOTAL, OCO/GWOT FOR DIRECT AND ENDURING WAR COSTS	401,950	394,260
OCO/GWOT FOR BASE REQUIREMENTS		
999 CLASSIFIED PROGRAMS	426,000	0
Transfer to title IV		-426,000
SUBTOTAL, OCO/GWOT FOR BASE REQUIREMENTS	426,000	0
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE WIDE	827,950	394,260
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION	1,646,732	834,222

(118c)

REVOLVING AND MANAGEMENT FUNDS

The agreement provides \$20,100,000 for Defense Working Capital Funds.

OTHER DEPARTMENT OF DEFENSE PROGRAMS

DEFENSE HEALTH PROGRAM

The agreement provides \$347,746,000 for the Defense Health Program, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

	Budget Request	Final Bill
IN-HOUSE CARE	57,459	57,459
PRIVATE SECTOR CARE	287,487	287,487
CONSOLIDATED HEALTH SUPPORT	2,800	2,800
TOTAL, OPERATION AND MAINTENANCE	347,746	347,746

DRUG INTERDICTION AND COUNTER-DRUG ACTIVITIES, DEFENSE

The agreement provides \$153,100,000 for Drug Interdiction and Counter-drug Activities, Defense.

OFFICE OF THE INSPECTOR GENERAL

The agreement provides \$24,254,000 for the Office of the Inspector General.

GENERAL PROVISIONS – THIS TITLE

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

(TRANSFER OF FUNDS)

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

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

The agreement retains a provision proposed by the House which prohibits the use of the Counter-ISIS Train and Equip Fund to procure or transfer man-portable air defense systems.

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

The agreement retains a provision proposed by the House which prohibits the use of assistance and sustainment to the military and national security forces of Ukraine to procure or transfer man-portable air defense systems.

The agreement retains a provision proposed by the House which restricts funds provided in Operation and Maintenance, Defense-Wide for payments under Coalition Support Fund for reimbursement to the Government of Pakistan until certain conditions are met.

(TRANSFER OF FUNDS)

The agreement modifies a provision proposed by the House which provides funds to the Department of Defense to improve intelligence, surveillance, and reconnaissance capabilities.

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

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

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

(RESCISSIONS)

The agreement modifies a provision proposed by the House recommending rescissions and provides for the rescission of \$1,134,742,000. The rescissions agreed to are:

2018 Appropriations:

Weapons and Tracked Combat Vehicles, Army:

Bradley program modifications\$30,000,000

Aircraft Procurement, Air Force:

MQ-9 17,600,000

HC/MC-130 modifications – MC ABMN 14,700,000

2019 Appropriations:

Operation and Maintenance, Defense-Wide:

DSCA security cooperation55,000,000

Coalition Support Fund.....30,000,000

Afghanistan Security Forces Fund:

Afghanistan Security Forces Fund.....396,000,000

Counter-ISIS Train and Equip Fund:

Counter-ISIS Train and Equip Fund.....450,000,000

Missile Procurement, Army:

Hellfire 13,176,000

Weapons and Tracked Combat Vehicles, Army:

Bradley program modifications50,000,000

Common remotely operated weapons station.....2,477,000

Other Procurement, Army:

Information systems.....8,750,000

Procurement of Ammunition, Navy and Marine Corps:

JT direct attack munition	16,574,000
Aircraft Procurement, Air Force:	
Large aircraft infrared countermeasures	24,713,000
Missile Procurement, Air Force:	
Hellfire	25,752,000

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

TITLE X – NATURAL DISASTER RELIEF

GENERAL PROVISION – THIS TITLE

The agreement includes a new provision which restricts funding in this title to be used only for specific purposes.

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE I					
MILITARY PERSONNEL					
Military Personnel, Army.....	42,690,042	43,347,472	42,746,972	+56,930	-600,500
Military Personnel, Navy.....	30,164,481	31,831,199	31,710,431	+1,545,950	-120,768
Military Personnel, Marine Corps.....	13,779,038	14,175,211	14,098,666	+319,628	-76,545
Military Personnel, Air Force.....	30,074,691	31,284,959	31,239,149	+1,164,458	-45,810
Reserve Personnel, Army.....	4,836,947	4,964,671	4,922,087	+85,140	-42,584
Reserve Personnel, Navy.....	2,049,021	2,123,947	2,115,997	+66,976	-7,950
Reserve Personnel, Marine Corps.....	782,390	838,854	833,604	+51,214	-5,250
Reserve Personnel, Air Force.....	1,860,406	2,038,040	2,014,190	+153,784	-23,850
National Guard Personnel, Army.....	8,600,945	8,808,305	8,704,320	+103,375	-103,985
National Guard Personnel, Air Force.....	3,699,080	4,063,845	4,060,651	+361,571	-3,194
	=====	=====	=====	=====	=====
Total, title I, Military Personnel.....	138,537,041	143,476,503	142,446,067	+3,909,026	-1,030,436
	=====	=====	=====	=====	=====
Total, Tricare Accrual payments (permanent, indefinite authority).....	---	---	---	---	---
Total, including Tricare.....	138,537,041	143,476,503	142,446,067	+3,909,026	-1,030,436
	=====	=====	=====	=====	=====



DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE II					
OPERATION AND MAINTENANCE					
Operation and Maintenance, Army.....	40,145,482	22,797,873	39,597,083	-548,399	+16,799,210
Operation and Maintenance, Navy.....	48,034,826	25,952,718	47,622,510	-412,316	+21,669,792
Operation and Maintenance, Marine Corps.....	6,540,049	3,928,045	7,868,468	+1,328,419	+3,940,423
Operation and Maintenance, Air Force.....	40,379,184	21,278,499	42,736,365	+2,357,181	+21,457,866
Operation and Maintenance, Space Force.....	---	72,436	40,000	+40,000	-32,436
Operation and Maintenance, Defense-Wide.....	35,613,354	37,399,341	37,491,073	+1,877,719	+91,732
Operation and Maintenance, Army Reserve.....	2,781,402	1,080,103	2,984,494	+203,092	+1,904,391
Operation and Maintenance, Navy Reserve.....	1,018,006	261,284	1,102,616	+84,610	+841,332
Operation and Maintenance, Marine Corps Reserve.....	271,570	61,090	289,076	+17,506	+227,986
Operation and Maintenance, Air Force Reserve.....	3,191,734	2,231,445	3,227,318	+35,584	+995,873
Operation and Maintenance, Army National Guard.....	7,118,831	3,335,755	7,461,947	+343,116	+4,126,192
Operation and Maintenance, Air National Guard.....	6,420,697	3,612,156	6,655,292	+234,595	+3,043,136
United States Court of Appeals for the Armed Forces...	14,662	14,771	14,771	+109	---
Environmental Restoration, Army.....	235,809	207,518	251,700	+15,891	+44,182
Environmental Restoration, Navy.....	365,883	335,932	385,000	+19,117	+49,068
Environmental Restoration, Air Force.....	365,808	302,744	485,000	+119,192	+182,256
Environmental Restoration, Defense-Wide.....	19,002	9,105	19,002	---	+9,897
Environmental Restoration, Formerly Used Defense Sites	248,673	216,499	275,000	+26,327	+58,501
Overseas Humanitarian, Disaster, and Civic Aid.....	117,663	108,600	135,000	+17,337	+26,400
Cooperative Threat Reduction Account.....	350,240	338,700	373,700	+23,460	+35,000

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Department of Defense Acquisition Workforce Development Fund.....	450,000	400,000	400,000	-50,000	---
Total, title II, Operation and Maintenance.....	193,682,875	123,944,614	199,415,415	+5,732,540	+75,470,801

TITLE III

PROCUREMENT

Aircraft Procurement, Army.....	4,299,566	3,696,429	3,771,329	-528,237	+74,900
Missile Procurement, Army.....	3,145,256	---	2,995,673	-149,583	+2,995,673
Procurement of Weapons and Tracked Combat Vehicles, Army.....	4,486,402	4,715,566	4,663,597	+177,195	-51,969
Procurement of Ammunition, Army.....	2,276,330	---	2,578,575	+302,245	+2,578,575
Other Procurement, Army.....	7,844,691	7,443,101	7,581,524	-263,167	+138,423
Aircraft Procurement, Navy.....	20,092,199	18,522,204	19,605,513	-486,686	+1,083,309
Weapons Procurement, Navy.....	3,711,576	---	4,017,470	+305,894	+4,017,470
Procurement of Ammunition, Navy and Marine Corps.....	952,682	---	843,401	-109,281	+843,401
Shipbuilding and Conversion, Navy.....	24,150,087	23,783,710	23,975,378	-174,709	+191,668
Other Procurement, Navy.....	9,097,138	9,652,956	10,075,257	+978,119	+422,301
Procurement, Marine Corps.....	2,719,870	3,090,449	2,898,422	+178,552	-192,027
Aircraft Procurement, Air Force.....	17,112,337	16,784,279	17,512,361	+400,024	+728,082
Missile Procurement, Air Force.....	2,585,004	2,889,187	2,575,890	-9,114	-313,297
Space Procurement, Air Force.....	2,343,642	2,414,383	2,353,383	+9,741	-61,000
Procurement of Ammunition, Air Force.....	1,485,856	---	1,625,661	+139,805	+1,625,661

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Other Procurement, Air Force.....	20,884,225	20,687,857	21,410,021	+525,796	+722,164
Procurement, Defense-Wide.....	6,822,180	5,109,416	5,332,147	-1,490,033	+222,731
National Guard and Reserve Equipment.....	1,300,000	---	---	-1,300,000	---
Defense Production Act Purchases	53,578	34,393	64,393	+10,815	+30,000
Joint Urgent Operational Needs Fund.....	---	99,200	---	---	-99,200
	=====	=====	=====	=====	=====
Total, title III, Procurement.....	135,362,619	118,923,130	133,879,995	-1,482,624	+14,956,865
	=====	=====	=====	=====	=====
TITLE IV					
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Army.....	11,083,824	12,192,771	12,543,435	+1,459,611	+350,664
Research, Development, Test and Evaluation, Navy	18,510,564	20,270,499	20,155,115	+1,644,551	-115,384
Research, Development, Test and Evaluation, Air Force.....	41,229,475	45,616,122	45,566,955	+4,337,480	-49,167
Research, Development, Test and Evaluation, Defense-Wide	23,691,836	24,346,953	25,938,027	+2,246,191	+1,591,074
Operational Test and Evaluation, Defense.....	381,009	221,200	227,700	-153,309	+6,500
	=====	=====	=====	=====	=====
Total, title IV, Research, Development, Test and Evaluation.....	94,896,708	102,647,545	104,431,232	+9,534,524	+1,783,687
	=====	=====	=====	=====	=====

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE V					
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds.....	1,641,115	1,226,211	1,564,211	-76,904	+338,000
Defense Counterintelligence and Security Agency Working Capital Fund.....	---	200,000	---	---	-200,000
	=====	=====	=====	=====	=====
Total, title V, Revolving and Management Funds...	1,641,115	1,426,211	1,564,211	-76,904	+138,000
	=====	=====	=====	=====	=====

DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE VI					
OTHER DEPARTMENT OF DEFENSE PROGRAMS					
Defense Health Program					
Operation and maintenance.....	30,953,422	31,812,090	31,321,665	+368,243	-490,425
Procurement.....	873,160	454,324	446,359	-426,801	-7,965
Research, development, test and evaluation.....	2,180,937	732,273	2,306,095	+125,158	+1,573,822
Total, Defense Health Program 1/.....	34,007,519	32,998,687	34,074,119	+66,600	+1,075,432
Chemical Agents and Munitions Destruction, Defense:					
Operation and maintenance.....	105,997	107,351	107,351	+1,354	---
Procurement.....	1,091	2,218	2,218	+1,127	---
Research, development, test and evaluation.....	886,728	875,930	875,930	-10,798	---
Total, Chemical Agents 2/.....	993,816	985,499	985,499	-8,317	---
Drug Interdiction and Counter-Drug Activities,					
Defense1/.....	881,525	799,402	893,059	+11,534	+93,657
Office of the Inspector General 1/.....	329,273	363,499	363,499	+34,226	---
Total, title VI, Other Department of Defense Programs.....	36,212,133	35,147,087	36,316,176	+104,043	+1,169,089

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

TITLE VII					
RELATED AGENCIES					
Central Intelligence Agency Retirement and Disability System Fund.....	514,000	514,000	514,000	---	---
Intelligence Community Management Account (ICMA).....	522,424	558,000	556,000	+33,576	-2,000
	=====	=====	=====	=====	=====
Total, title VII, Related agencies.....	1,036,424	1,072,000	1,070,000	+33,576	-2,000
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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE VIII					
GENERAL PROVISIONS					
Additional transfer authority (Sec.8005).....	(4,000,000)	(5,000,000)	(4,000,000)	---	(-1,000,000)
FFRDC (Sec.8025).....	-179,000	---	---	+179,000	---
Rescissions (Sec.8043).....	-2,508,005	---	-4,090,652	-1,582,647	-4,090,652
National grants (Sec.8050).....	44,000	---	44,000	---	+44,000
O&M, Defense-wide transfer authority (Sec.8054).....	(30,000)	(30,000)	(30,000)	---	---
John C. Stennis Center for Public Service Development Trust Fund (O&M, Navy transfer authority)(Sec.8069).....	(1,000)	---	(1,000)	---	(+1,000)
Fisher House Foundation (Sec.8068).....	10,000	---	10,000	---	+10,000
Revised economic assumptions (Sec.8133).....	-250,000	---	-81,559	+168,441	-81,559
Fisher House O&M Army Navy Air Force transfer authority (Sec.8090).....	(11,000)	(11,000)	(11,000)	---	---
Defense Health O&M transfer authority (Sec.8094).....	(113,000)	(127,000)	(127,000)	(+14,000)	---
Public Schools on Military Installations (Sec.8121)...	270,000	---	315,000	+45,000	+315,000
Revised fuel costs.....	750,000	---	---	-750,000	---
Working Capital Fund, Army excess cash balances	-50,000	---	---	+50,000	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Working Capital Fund, Navy excess cash balances.....	-50,000	---	---	+50,000	---
Total, title VIII, General Provisions.....	-1,963,005	---	-3,803,211	-1,840,206	-3,803,211

TITLE IX

OVERSEAS CONTINGENCY OPERATIONS/GLOBAL WAR ON
TERRORISM (GWOT)

Military Personnel

Military Personnel, Army (GWOT)	2,929,154	2,743,132	2,743,132	-186,022	---
Military Personnel, Navy (GWOT).....	385,461	356,392	356,392	-29,069	---
Military Personnel, Marine Corps (GWOT)	109,232	104,213	104,213	-5,019	---
Military Personnel, Air Force (GWOT)	964,508	1,007,594	1,007,594	+43,086	---
Reserve Personnel, Army (GWOT).....	37,007	34,812	34,812	-2,195	---
Reserve Personnel, Navy (GWOT).....	11,100	11,370	11,370	+270	---
Reserve Personnel, Marine Corps (GWOT).....	2,380	3,599	3,599	+1,219	---
Reserve Personnel, Air Force (GWOT).....	21,076	16,428	16,428	-4,648	---
National Guard Personnel, Army (GWOT).....	195,283	202,644	202,644	+7,361	---
National Guard Personnel, Air Force (GWOT).....	5,460	5,624	5,624	+164	---
Total, Military Personnel.....	4,660,661	4,485,808	4,485,808	-174,853	---

Operation and Maintenance



DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Operation & Maintenance, Army (GWOT)	18,548,500	37,987,549	20,092,038	+1,543,538	-17,895,511
Operation & Maintenance, Navy (GWOT)	5,172,155	31,734,683	8,772,379	+3,600,224	-22,962,304
(Coast Guard) (by transfer) (GWOT).....	---	(190,000)	---	---	(-190,000)
Operation & Maintenance, Marine Corps (GWOT)	1,292,995	5,123,470	1,109,791	-183,204	-4,013,679
Operation & Maintenance, Air Force (GWOT).....	9,828,674	33,028,712	10,359,379	+530,705	-22,669,333
Operation & Maintenance, Defense-Wide (GWOT)	8,105,991	8,448,612	7,803,193	-302,798	-645,419
(Coalition support funds) (GWOT).....	(900,000)	---	(225,000)	(-675,000)	(+225,000)
Operation & Maintenance, Army Reserve (GWOT).....	41,887	1,986,599	37,592	-4,295	-1,949,007
Operation & Maintenance, Navy Reserve (GWOT).....	25,637	886,868	23,036	-2,601	-863,832
Operation & Maintenance, Marine Corps Reserve (GWOT)...	3,345	239,693	8,707	+5,362	-230,986
Operation & Maintenance, Air Force Reserve (GWOT)....	60,500	1,195,131	29,758	-30,742	-1,165,373
Operation & Maintenance, Army National Guard (GWOT)....	110,729	4,376,939	83,291	-27,438	-4,293,648
Operation & Maintenance, Air National Guard (GWOT)....	15,870	3,291,982	176,909	+161,039	-3,115,073
Subtotal.....	43,206,283	128,300,238	48,496,073	+5,289,790	-79,804,165
Afghanistan Security Forces Fund (GWOT).....	4,920,000	4,803,978	4,199,978	-720,022	-604,000
Counter-ISIS Train and Equip Fund (GWOT).....	1,352,200	1,045,000	1,195,000	-157,200	+150,000
Total, Operation and Maintenance.....	49,478,483	134,149,216	53,891,051	+4,412,568	-80,258,165

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Procurement					
Aircraft Procurement, Army (GWOT).....	346,963	381,541	531,541	+184,578	+150,000
Missile Procurement, Army (GWOT).....	1,729,904	4,645,755	1,423,589	-306,315	-3,222,166
Procurement of Weapons and Tracked Combat Vehicles, Army (GWOT).....	1,102,108	353,454	346,306	-755,802	-7,148
Procurement of Ammunition, Army (GWOT).....	299,075	2,843,230	148,682	-150,393	-2,694,548
Other Procurement, Army (GWOT).....	1,364,045	1,139,650	1,080,504	-283,541	-59,146
Aircraft Procurement, Navy (GWOT).....	232,119	119,045	95,153	-136,966	-23,892
Weapons Procurement, Navy (GWOT).....	14,134	4,332,710	116,429	+102,295	-4,216,281
Procurement of Ammunition, Navy and Marine Corps (GWOT).....	229,783	1,186,128	204,814	-24,969	-981,314
Other Procurement, Navy (GWOT).....	181,173	357,600	351,250	+170,077	-6,350
Procurement, Marine Corps (GWOT).....	58,023	20,589	20,589	-37,434	---
Aircraft Procurement, Air Force (GWOT).....	955,248	309,110	851,310	-103,938	+542,200
Missile Procurement, Air Force (GWOT).....	493,526	201,671	201,671	-291,855	---
Procurement of Ammunition, Air Force (GWOT).....	1,371,516	2,607,394	934,758	-436,758	-1,672,636
Other Procurement, Air Force (GWOT).....	3,677,276	4,193,098	3,748,801	+71,525	-444,297
Procurement, Defense-Wide (GWOT).....	572,135	452,047	438,064	-134,071	-13,983
National Guard and Reserve Equipment (GWOT).....	---	---	1,300,000	+1,300,000	+1,300,000
Total, Procurement.....	12,627,028	23,143,022	11,793,461	-833,567	-11,349,561

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

Research, Development, Test and Evaluation					
Research, Development, Test & Evaluation, Army (GWOT)	300,604	204,124	147,304	-153,300	-56,820
Research, Development, Test & Evaluation, Navy (GWOT)	167,812	164,410	164,410	-3,402	---
Research, Development, Test & Evaluation, Air Force (GWOT)	321,934	450,248	128,248	-193,686	-322,000
Research, Development, Test and Evaluation, Defense-Wide (GWOT)	403,044	827,950	394,260	-8,784	-433,690

Total, Research, Development, Test and Evaluation	1,193,394	1,646,732	834,222	-359,172	-812,510
Revolving and Management Funds					
Defense Working Capital Funds (GWOT)	15,190	20,100	20,100	+4,910	---

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

Other Department of Defense Programs					
Defense Health Program:					
Operation & Maintenance (GWOT).....	352,068	347,746	347,746	-4,322	---
Drug Interdiction and Counter-Drug Activities, Defense (GWOT).....	153,100	163,596	153,100	---	-10,496
Office of the Inspector General (GWOT).....	24,692	24,254	24,254	-438	---
Total, Other Department of Defense Programs.....	529,860	535,596	525,100	-4,760	-10,496
	=====	=====	=====	=====	=====
TITLE IX General Provisions					
Additional transfer authority (GWOT) (Sec.9002).....	(2,000,000)	(4,500,000)	(2,000,000)	---	(-2,500,000)
Ukraine Security Assistance Initiative (GWOT)	250,000	---	---	-250,000	---
Intelligence, Surveillance, and Reconnaissance (GWOT) (Sec.9018).....	500,000	---	250,000	-250,000	+250,000
Readiness (GWOT)	---	---	---	---	---
Rescissions (GWOT) (Sec.9023).....	-1,340,616	---	-1,134,742	+205,874	-1,134,742
Total, General Provisions.....	-590,616	---	-884,742	-294,126	-884,742
	=====	=====	=====	=====	=====
Total, title IX (OCO/GWOT).....	67,914,000	163,980,474	70,665,000	+2,751,000	-93,315,474
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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
TITLE X NATURAL DISASTER RELIEF					
OPERATION AND MAINTENANCE					
Operation and Maintenance, Navy (emergency).....	---	---	427,000	+427,000	+427,000
Operation and Maintenance, Marine Corps (emergency)...	---	---	394,000	+394,000	+394,000
Operation and Maintenance, Air Force (emergency).....	---	---	110,000	+110,000	+110,000
Operation and Maintenance, Army National Guard (emergency).....	---	---	45,700	+45,700	+45,700
Total, Operation and Maintenance.....	---	---	976,700	+976,700	+976,700
PROCUREMENT					
Other Procurement, Navy (emergency).....	---	---	75,015	+75,015	+75,015
Procurement, Marine Corps (emergency).....	---	---	73,323	+73,323	+73,323
Aircraft Procurement, Air Force (emergency).....	---	---	204,448	+204,448	+204,448
Other Procurement, Air Force (emergency).....	---	---	77,974	+77,974	+77,974
Total, Procurement.....	---	---	430,760	+430,760	+430,760
RESEARCH, DEVELOPMENT, TEST AND EVALUATION					
Research, Development, Test and Evaluation, Navy (emergency).....	---	---	130,444	+130,444	+130,444
REVOLVING AND MANAGEMENT FUNDS					
Defense Working Capital Funds (emergency).....	---	---	233,500	+233,500	+233,500
Total, title X.....	---	---	1,771,404	+1,771,404	+1,771,404

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

OTHER APPROPRIATIONS					
ADDITIONAL SUPPLEMENTAL APPROPRIATIONS FOR DISASTER RELIEF ACT, 2019 P.L. 116-20					
Operation and Maintenance					
Operations and Maintenance, Marine Corps (emergency)...	381,000	---	---	-381,000	---
Operations and Maintenance, Air Force (emergency).....	670,000	---	---	-670,000	---

Total, Additional Supplemental Appropriations for Disaster Relief Act, 2019.....	1,051,000	---	---	-1,051,000	---
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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request

EMERGENCY SUPPLEMENTAL APPROPRIATIONS FOR HUMANITARIAN ASSISTANCE					
AND SECURITY AT THE SOUTHERN BORDER ACT, 2019 P.L. 116-26					
Operation and Maintenance					
Operations and Maintenance, Army (emergency).....	92,800	---	---	-92,800	---
Operations and Maintenance, Navy (emergency).....	13,025	---	---	-13,025	---
Operations and Maintenance, Air Force (emergency)....	18,000	---	---	-18,000	---
Operations and Maintenance, Army National Guard (emergency).....	21,024	---	---	-21,024	---

Total, Emergency Supplemental Appropriations for Humanitarian Assistance and Security at the Southern Border Act, 2019.....	144,849	---	---	-144,849	---
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Total, Other Appropriations.....	1,195,849	---	---	-1,195,849	---
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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Grand total.....	668,515,759	690,617,564	687,756,289	+19,240,530	-2,861,275
Appropriations.....	(601,913,915)	(526,637,090)	(619,410,537)	(+17,496,622)	(+92,773,447)
Emergency appropriations.....	(1,195,849)	---	(1,771,404)	(+575,555)	(+1,771,404)
Global War on Terrorism (GWOT).....	(69,254,616)	(163,980,474)	(71,799,742)	(+2,545,126)	(-92,180,732)
Rescissions.....	(-2,508,005)	---	(-4,090,652)	(-1,582,647)	(-4,090,652)
Rescissions (GWOT).....	(-1,340,616)	---	(-1,134,742)	(+205,874)	(-1,134,742)
(Transfer Authority).....	(4,155,000)	(5,168,000)	(4,169,000)	(+14,000)	(-999,000)
(Transfer Authority) (GWOT).....	(2,000,000)	(4,500,000)	(2,000,000)	---	(-2,500,000)

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DEPARTMENT OF DEFENSE APPROPRIATIONS ACT, 2020

(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
RECAPITULATION					
Title I - Military Personnel.....	138,537,041	143,476,503	142,446,067	+3,909,026	-1,030,436
Title II - Operation and Maintenance.....	193,682,875	123,944,614	199,415,415	+5,732,540	+75,470,801
Title III - Procurement.....	135,362,619	118,923,130	133,879,995	-1,482,624	+14,956,865
Title IV - Research, Development, Test and Evaluation.....	94,896,708	102,647,545	104,431,232	+9,534,524	+1,783,687
Title V - Revolving and Management Funds.....	1,641,115	1,426,211	1,564,211	-76,904	+138,000
Title VI - Other Department of Defense Programs.....	36,212,133	35,147,087	36,316,176	+104,043	+1,169,089
Title VII - Related Agencies.....	1,036,424	1,072,000	1,070,000	+33,576	-2,000
Title VIII - General Provisions (net).....	-1,963,005	---	-3,803,211	-1,840,206	-3,803,211
Title IX - Global War on Terrorism (GWOT).....	67,914,000	163,980,474	70,665,000	+2,751,000	-93,315,474
Title X - Natural Disaster Relief (emergency).....	---	---	1,771,404	+1,771,404	+1,771,404
Total, Department of Defense.....	667,319,910	690,617,564	687,756,289	+20,436,379	-2,861,275
Scorekeeping adjustments.....	7,577,090	7,858,815	7,858,815	+281,725	---
Total, mandatory and discretionary.....	674,897,000	698,476,379	695,615,104	+20,718,104	-2,861,275

- 1/ Included in Budget under Operation and Maintenance
- 2/ Included in Budget under Procurement
- 3/ Contributions to Department of Defense Medicare-Eligible Retiree Health Care Fund (Sec. 725, P.L. 108-375)

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