TITLE III - PROCUREMENT

The agreement provides \$172,029,494,000 in Title III, Procurement, as follows:

(INSERT PROCUREMENT SUMMARY TABLE) & (Insert 63 A

	BUDGET REQUEST	FINAL BILL
SUMMARY		
ARMY		
AIRCRAFT. MISSILES. WEAPONS AND TRACKED COMBAT VEHICLES. AMMUNITION. OTHER.	3,012,440 4,962,017 3,765,521 2,967,578 8,672,979	3,287,997 4,622,213 4,244,226 2,943,574 8,626,297
TOTAL, ARMY	23,380,535	23,724,307
NAVY		
AIRCRAFT. WEAPONS. AMMUNITION. SHIPS. OTHER. MARINE CORPS.	17,336,760 6,876,385 1,293,273 32,848,950 14,535,257 3,979,212	19,826,909 5,876,828 1,161,205 33,665,493 14,385,665 3,904,532
TOTAL, NAVY	76,869,837	78,820,632
AIR FORCE		
AIRCRAFT. MISSILES. AMMUNITION. OTHER	20,315,204 5,530,446 703,158 30,417,892	20,828,306 4,693,647 589,943 31,327,131
TOTAL, AIR FORCE	56,966,700	57,439,027
SPACE FORCE		
SPACE PROGRAMS	4,714,294	4,064,948
TOTAL, SPACE FORCE	4,714,294	4,064,948
DEFENSE-WIDE	6,156,975	6,392,675
DEFENSE PRODUCTION ACT PURCHASES	968,605	587,905
NATIONAL GUARD AND RESERVE EQUIPMENT		1,000,000
TOTAL PROCUREMENT	169,056,946	172,029,494

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense Appropriations bill for Fiscal Year 2008 (House Report 110-279). Specifically, the dollar threshold for reprogramming funds shall be \$15,000,000 for procurement and research, development, test and evaluation.

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

FUNDING INCREASES

The funding increases outlined in these tables shall be provided only for the specific purposes indicated in the tables. Additional guidance is provided in the overview of this explanatory statement.

PROCUREMENT SPECIAL INTEREST ITEMS

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

CRYSTALS FOR OPTICAL COMPONENTS

The agreement directs the Secretary of Defense to conduct a review of the amount of silicon and germanium optical components in U.S. defense systems that are being sourced from China and submit a report to the congressional defense committees not later than 180 days after the enactment of this Act. The Secretary is encouraged to develop specific plans to phase out the procurement of such components and support domestic growth and component manufacturing including through the use of defense production authorities in chapter 55 of title 50, United States Code, as appropriate. This language replaces the directives under this heading in House Report 118-121 as well as directives under the heading "Silicon and Germanium Crystals for Optical Components" in Senate Report 118-81.

AEROSPACE BEARING REPAIR AND REFURBISHMENT

The agreement directs the Secretary of Defense to submit a report to the congressional defense committees, not later than 180 days after the enactment of this Act, that examines the participation rates of domestic independent service providers for aerospace bearing repair and refurbishment solicitations. The report shall identify any potential cost, schedule, and performance benefits and include comparative data from previous awards relative to past performance. This includes cost overruns or schedule delays, the ability and capacity to provide ongoing life cycle product support, and the ability to meet technical requirements of the request for proposal for such services. Further, the report shall detail actions that the Department of Defense has taken to support domestic independent bearing repair service providers. This language replaces the directives under this heading in Senate Report 118-81 as well as directives under the heading "Repaired and Refurbished Aerospace Bearings" in House Report 118-121.

MUNITIONS STOCK

The agreement directs the Secretary of Defense and Chairman of the Joint Chiefs of Staff to jointly submit a report to the congressional defense committees, not later than 120 days after the enactment of this Act, that identifies current and future munitions shortfalls. The report shall include the following: areas of greatest operational risk in the most pressing theaters; novel munitions employment approaches to create platform optionality and reduce integration cost; munitions that are currently being produced by non-traditional suppliers; potential sources of low-cost components through non-traditional

suppliers; viable paths for system integration through non-traditional suppliers or relationships with traditional suppliers; a strategy for leveraging a broader industrial base for expanding munitions capability and capacity; and an assessment of the extent to which the fiscal year 2025 President's budget request will meet munitions requirements, including total munition requirements and global floor requirements, with estimated procurement costs, quantities, and projected inventory for such munitions identified for each year of the future years defense program. The report shall be submitted in an unclassified form and may include a classified annex.

COUNTER-SMALL UNMANNED AIRCRAFT SYSTEMS

Defeating small, unmanned aircraft systems, which pose significant risks to U.S. military personnel, is a national imperative that deserves concerted focus from the Department of Defense. Therefore, the agreement includes \$100,000,000 for the purpose of accelerating procurement of Counter-Small Unmanned Aircraft Systems (C-sUAS) to address emergent sUAS threats within the Service and Special Operations Command procurement appropriation accounts rather than within the Office of the Secretary of Defense as proposed in the budget request. The agreement directs the Undersecretary of Defense for Acquisition and Sustainment, in coordination with the service acquisition executives for each respective Service and Special Operations Command, to provide quarterly reports to the congressional defense committees beginning on the first day of the fiscal quarter after the date of enactment of this Act until the first day of the fiscal quarter after all such funds have been obligated. Each report shall include current spend plans, current obligation actuals, and an assessment of how this funding is being used to address operational capability gaps. The agreement retains the directive under the heading "Counter-Small Unmanned Aircraft Systems" in Senate Report 118-81.

AIRCRAFT PROCUREMENT, ARMY

The agreement provides \$3,287,997,000 for Aircraft Procurement, Army, as follows:

P-1		Budget Request	Final Bill
3	FUTURE UAS FAMILY Inc. 2 early to need	53,453	0 -53,453
4	UH-72 LAKOTA LIGHT UTILITY HELICOPTER Program increase	0	10,000 10,000
5	SMALL UNMANNED AIRCRAFT SYSTEMS Program increase - accelerate short range reconnaissance fielding	20,769	30,769 10,000
6	AH-64 APACHE BLOCK IIIA REMAN Program decrease	718,578	653,107 -65,471
7	AH-64 APACHE BLOCK IIIA REMAN (AP-CY)	110,360	110,360
8	UH-60 BLACKHAWK M MODEL (MYP) Program increase - additional aircraft for the National Guard	668,258	728,258 60,000
9	UH-60 BLACKHAWK M MODEL (MYP) (AP-CY)	92,494	92,494
10	UH-60 BLACK HAWK L AND V MODELS	153,196	153,196
11	CH-47 HELICOPTER Program increase - additional helicopters Program increase - SOCOM operational loss	202,487	423,887 177,500 43,900
12	CH-47 HELICOPTER (AP-CY)	18,936	18,936
13	MQ-1 PAYLOAD	13,650	13,650
14	GRAY EAGLE MODS2 Program increase - MQ-1C Gray Eagle 25M capability improvement	14,959	82,959 68,000
16	AH-64 MODS	113,127	113,127
17	CH-47 CARGO HELICOPTER MODS Program increase - hybrid enhanced ballistic protection systems Program increase - lightweight ballistic protection systems	20,689	50,689 15,000 15,000
22	UTILITY HELICOPTER MODS Program increase - 60kVA generators for UH-60s Program increase - powered ascenders for aviation readiness Program increase - litter basket stabilization technology for search and rescu	35,879	56,379 15,000 2,500 3,000
23	NETWORK AND MISSION PLAN Program increase - aviation mission common server Program increase - flight scheduling software	32,418	45,168 12,000 750
24	COMMS, NAV SURVEILLANCE	74,912	74,912
25	DEGRADED VISUAL ENVIRONMENT	16,838	16,838

P-1		Budget Request	Final Bill
26	AVIATION ASSURED PNT	67,383	67,383
27	GATM ROLLUP	8,924	8,924
29	UAS MODS	2,258	2,258
30	AIRCRAFT SURVIVABILITY EQUIPMENT Carryover B-kit unit cost adjustment	161,731	121,562 -34,939 -5,230
31	SURVIVABILITY CM	6,526	6,526
32	CMWS	72,041	72,041
33	COMMON INFRARED COUNTERMEASURES (CIRCM)	261,384	261,384
34	COMMON GROUND EQUIPMENT Program increase - aviation ground support equipment	25,752	27,752 2,000
35	AIRCREW INTEGRATED SYSTEMS	22,097	22,097
36	AIR TRAFFIC CONTROL	21,216	21,216
37	LAUNCHER, 2.75 ROCKET	2,125	2,125
	TOTAL, AIRCRAFT PROCUREMENT, ARMY	3,012,440	3,287,997

MISSILE PROCUREMENT, ARMY

The agreement provides \$4,622,213,000 for Missile Procurement, Army, as follows:

P-1		Budget Request	Final Bill
1	LOWER TIER AIR AND MISSILE DEFENSE (AMD)	6,625	6,625
3	M-SHORAD - PROCUREMENT Unjustified growth	400,697	357,697 -43,000
4	MSE MISSILE Transfer to line 4a - advance procurement	1,212,832	960,832 -252,000
4a	MSE MISSILE - AP Transfer from line 4 - advance procurement (FY 2024 for FY2025) Transfer from line 4 - advance procurement (FY 2024 for FY2026)	0	252,000 126,000 126,000
6	PRECISION STRIKE MISSILE (PRSM) Schedule delay Unjustified growth - software maintenance	384,071	334,759 -43,062 -6,250
7	INDIRECT FIRE PROTECTION CAPABILITY INC 2-I Unjustified growth - integrated logistics support Contractor management	313,189	256,753 -40,536 -15,900
8	MID-RANGE CAPABILITY (MRC)	169,519	169,519
9	HELLFIRE SYS SUMMARY	21,976	21,976
10	JOINT AIR-TO-GROUND MSLS (JAGM) Contract delays	303,409	255,269 -48,140
11	LONG RANGE PRECISION MUNITION Program increase - long range precision munition	0	5,000 5,000
12	LONG-RANGE HYPERSONIC WEAPON Early to need Army-requested transfer to RDTE,A line 84	156,821	62,843 -70,265 -23,713
13	JAVELIN (AAWS-M) SYSTEM SUMMARY AUR excess to capacity	199,509	122,147 -77,362
14	TOW 2 SYSTEM SUMMARY Unit cost increase	120,475	110,765 -9,710
15	GUIDED MLRS ROCKET (GMLRS)	886,367	886,367
16	GUIDED MLRS ROCKET (GMLRS) (AP) Program decrease	55,913	30,913 -25,000
17	MLRS REDUCED RANGE PRACTICE ROCKETS	10,334	10,334
18	HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)	179,230	179,230
19	ARMY TACTICAL MSL SYS (ATACMS) - SYSTEM SUMMARY Program increase - ATACMS	7,307	12,307 5,000

P-1		Budget Request	Final Bill
20	LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) Program increase - loitering munition Program increase	0	62,227 10,000 52,227
21	PATRIOT MODS	212,247	212,247
22	STINGER MODS	36,484	36,484
23	AVENGER MODS	22,274	22,274
25	MLRS MODS	168,198	168,198
26	HIMARS MODIFICATIONS	76,266	76,266
27	SPARES AND REPAIR PARTS	6,573	6,573
28	AIR DEFENSE TARGETS	11,701	11,701
UND	RESCISSION NOT PROPERLY ACCOUNT FOR		-9,093
	TOTAL MISSILE PROCUREMENT, ARMY	4,962,017	4,622,213

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

The agreement provides \$4,244,226,000 for Procurement of Weapons and Tracked Combat Vehicles, Army, as follows:

(INSERT PROJECT LEVEL TABLE) & (Inser+69A-B

P-1		Budget Request	Final Bill
1	ARMORED MULTI PURPOSE VEHICLE (AMPV) Program adjustment	554,777	392,099 -162,678
3	MOBILE PROTECTED FIREPOWER STS previously funded	394,635	386,635 -8,000
4	STRYKER UPGRADE Program increase - additional vehicles DVHA1 30mm MCWS testing delays DVHA1 30mm MCWS production early to need	614,282	665,913 80,000 -17,676 -10,693
5	BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE	5,232	5,232
6	BRADLEY PROGRAM (MOD) Carryover Program increase - active protection systems Unjustified growth - modification 7 installation	158,274	182,811 -9,259 40,000 -6,204
7	M109 FOV MODIFICATIONS	90,986	90,986
8	PALADIN INTEGRATED MANAGEMENT (PIM) Program increase	469,152	555,152 86,000
9	IMPROVED RECOVERY VEHICLE (M88 HERCULES)	41,058	41,058
12	JOINT ASSAULT BRIDGE	159,804	159,804
13	ABRAMS UPGRADE PROGRAM Program increase - prognostic and predictive maintenance and predictive logic Transfer from line 14 Program increase	697,883 stics	1,240,323 10,000 102,440 430,000
14	ABRAMS UPGRADE PROGRAM (AP-CY) Transfer to line 13	102,440	0 -102,440
16	PERSONAL DEFENSE WEAPON (ROLL) Excessive unit cost	510	150 -360
17	M240 MEDIUM MACHINE GUN (7.62MM) Program increase - M240 medium machine gun	425	12,500 12,075
19	MACHINE GUN, CAL .50 M2 ROLL	3,420	3,420
20	MORTAR SYSTEMS	8,013	8,013
21	LOCATION & AZIMUTH DETERMINATION SYSTEM (LADS)	3,174	3,174
22	XM320 GRENADE LAUNCHER MODULE (GLM)	14,143	14,143
23	PRECISION SNIPER RIFLE Program increase - Precision Sniper Rifle	5,248	7,748 2,500

P-1		Budget Request	Final Bill
24	CARBINE Program increase - M4 carbine upper receivers	571	8,571 8,000
25	NEXT GENERATION SQUAD WEAPON	292,850	292,850
26	HANDGUN	32	32
27	MK-19 GRENADE MACHINE GUN MODS Program increase - Mk93 mounts	0	10,000 10,000
28	M777 MODS	18,920	18,920
31	M119 MODIFICATIONS	13,097	13,097
32	MORTAR MODIFICATION	423	423
33	ITEMS LESS THAN \$5.0M (WOCV-WTCV)	1,148	1,148
34	PRODUCTION BASE SUPPORT (WOCV-WTCV)	115,024	115,024
35	COMMON REMOTELY OPERATED WEAPONS STATION Program increase - CROWS-AHD	0	15,000 15,000
	TOTAL, WEAPONS AND TRACKED COMBAT VEHICLES, ARMY	3,765,521	4,244,226

PROCUREMENT OF AMMUNITION, ARMY

The agreement provides \$2,943,574,000 for Procurement of Ammunition, Army, as follows:

(INSERT PROJECT LEVEL TABLE) P(Inser+ 70A-B

P-1		Budget Request	Final Bill
1	CTG, 5.56MM, ALL TYPES Excess to need - Ctg, 5.56mm, short range training, M1037, single round	90,853	88,409 -2,444
2	CTG, 7.62MM, ALL TYPES Program increase Excess to need - Ctg, 7.62mm blank, M82 w/M13 link Excess to need - Ctg, 7.62mm 4 ball M80A1/1 tracer M62A1 lead free	65,370	76,732 25,000 -595 -13,043
3	NEXT GENERATION SQUAD WEAPON AMMUNITION Program delays	191,244	176,244 -15,000
4	CTG, HANDGUN, ALL TYPES Excess to need - Ctg 9mm marking red	6,597	6,420 -177
5	CTG, .50 CAL, ALL TYPES Program increase	41,534	64,402 22,868
6	CTG, 20MM, ALL TYPES Program increase	7,925	15,425 7,500
7	CTG, 25MM, ALL TYPES Excess to need - Ctg 25mm TPDS-T M910	38,760	22,804 -15,956
8	CTG, 30MM, ALL TYPES Excess to need - Ctg, 30mm TP, M788, single, f/gun M230	107,805	98,532 -9,273
9	CTG, 40MM, ALL TYPES	148,970	148,970
10	CTG, 50MM, ALL TYPES	28,000	28,000
11	60MM MORTAR, ALL TYPES	35,160	35,160
12	81MM MORTAR, ALL TYPES	40,562	40,562
13	120MM MORTAR, ALL TYPES Excess to need - Ctg, 120mm mortar FRTR, M931 series w/ pract fuze Program increase - 120mm mortar WP smoke	106,784	110,689 -1,095 5,000
14	CARTRIDGES, TANK, 105MM AND 120MM, ALL TYPES	300,368	300,368
15	ARTILLERY CARTRIDGES, 75MM & 105MM	21,298	21,298
16	ARTILLERY PROJECTILE, 155MM, ALL TYPES	150,839	150,839
18	PRECISION ARTILLERY MUNITIONS Carryover	96,406	92,919 -3,487
19	ARTILLERY PROPELLANTS, FUZES AND PRIMERS, ALL TYPES Excess to need - PROP CHG 155mm, M231 series	172,947	163,872 -9,075

P-1		Budget Request	Final Bill
20	MINES & CLEARING CHARGES, ALL TYPES Carryover	71,182	66,182 -5,000
21	CLOSE TERRAIN SHAPING OBSTACLE Program reduction - Close Terrain Shaping Obstacle, XM204	55,374	17,410 -37,964
22	SHOULDER LAUNCHED MUNITIONS, ALL TYPES	18,630	18,630
23	ROCKET, HYDRA 70, ALL TYPES Program increase - Hydra 70 rockets	87,293	120,293 33,000
24	CAD/PAD, ALL TYPES	6,564	6,564
25	DEMOLITION MUNITIONS, ALL TYPES	24,238	24,238
26	GRENADES, ALL TYPES Program increase - 66mm vehicle launched white smoke training grenade Program increase - M18 green smoke hand grenade Program increase - M18 yellow smoke hand grenade Program increase - M18 violet smoke hand grenade	48,374	50,874 1,000 500 500 500
27	SIGNALS, ALL TYPES Excess to need - Signal, hand held red star cluster M158 Early to need - Flare, aircraft countermeasure, RF (Passive)	23,252	13,489 -1,680 -8,083
28	SIMULATORS, ALL TYPES	11,309	11,309
30	AMMO COMPONENTS, ALL TYPES	3,976	3,976
31	NON-LETHAL AMMUNITION, ALL TYPES	3,281	3,281
32	ITEMS LESS THAN \$5 MILLION (AMMO)	17,436	17,436
33	AMMUNITION PECULIAR EQUIPMENT	13,133	13,133
34	FIRST DESTINATION TRANSPORTATION (AMMO)	18,068	18,068
35	CLOSEOUT LIABILITIES	102	102
36	INDUSTRIAL FACILITIES Program increase - melt pour facility modernization	726,135	729,135 3,000
37	CONVENTIONAL MUNITIONS DEMILITARIZATION	183,752	183,752
38	ARMS INITIATIVE	4,057	4,057
	TOTAL, PROCUREMENT OF AMMUNITION, ARMY	2,967,578	2,943,574

OTHER PROCUREMENT, ARMY

The agreement provides \$8,626,297,000 for Other Procurement, Army, as follows:

P-1		Budget Request	Final Bill
1	SEMITRAILERS, FLATBED	22,751	22,751
2	SEMITRAILERS, TANKERS Effort previously funded	40,359	36,486 -3,873
3	HI MOB MULTI-PURP WHLD VEH (HMMWV)	25,904	25,904
4	GROUND MOBILITY VEHICLES (GMV)	36,223	36,223
5	ARNG HMMWV MODERNIZATION PROGRAM Program increase	0	140,000 140,000
6	JOINT LIGHT TACTICAL VEHICLE FAMILY OF VEHICLES Program decrease - production phasing	839,413	541,334 -298,079
7	TRUCK, DUMP, 20T (CCE) Program increase	20,075	35,075 15,000
8	FAMILY OF MEDIUM TACTICAL VEH (FMTV)	110,734	110,734
9	FAMILY OF COLD WEATHER ALL-TERRAIN VEHICLE (CATV)	28,745	28,745
10	FIRETRUCKS & ASSOCIATED FIREFIGHTING EQUIPMNET	55,340	55,340
11	FAMILY OF HEAVY TACTICAL VEHICLES (FHTV) Program increase	66,428	221,428 155,000
12	PLS ESP Contract savings	51,868	47,925 -3,943
14	TACTICAL WHEELED VEHICLE PROTECTION KITS	3,792	3,792
15	MODIFICATION OF IN SVC EQUIP Program increase - HMMWV ABS/ESC retrofit kits	80,326	127,826 47,500
16	PASSENGER CARRYING VEHICLES	2,203	2,203
17	NONTACTICAL VEHICLES, OTHER Prior year underexecution Program increase - airfield deicing equipment	8,246	2,984 -6,762 1,500
18	SIGNAL MODERNIZATION PROGRAM Software ahead of need	161,585	151,166 -10,419
19	TACTICAL NETWORK TECHNOLOGY MOD IN SVC SATCOM obsolescence previously funded Effort previously funded Program increase - SATCOM on the move	358,646	339,344 -12,003 -16,799 9,500
20	DISASTER INCIDENT RESPONSE COMMS TERMINAL	254	254

P-1		Budget Request	Final Bill
21	JCSE EQUIPMENT (USRDECOM)	5,097	5,097
24	DEFENSE ENTERPRISE WIDEBAND SATCOM SYSTEMS	101,181	101,181
25	TRANSPORTABLE TACTICAL COMMAND COMMUNICATIONS	54,849	54,849
26	SHF TERM	41,634	41,634
27	ASSURED POSITIONING, NAVIGATION AND TIMING	202,370	202,370
28	EHF SATELLITE COMMUNICATION Contract delays	19,122	15,576 -3,546
30	GLOBAL BRDCST SVC - GBS Program increase - Joint CONUS communications support environment satellite communications upgrade	531	5,831 5,300
31	COE TACTICAL SERVER INFRASTRUCTURE (TSI)	77,999	77,999
32	HANDHELD MANPACK SMALL FORM FIT (HMS) Leader radio unit cost increases Fielding overestimation Unjustified unit cost growth - manpack radio flyaway cost Cost overestimation - manpack radio support costs	765,109	721,407 -9,890 -5,000 -20,045 -8,767
33	ARMY LINK 16 SYSTEMS	60,767	60,767
35	UNIFIED COMMAND SUITE	18,999	18,999
36	COTS COMMUNICATIONS EQUIPMENT Fielding costs overestimation Phase program growth - low cost tactical radios Program increase - high frequency radios	492,001	406,923 -8,773 -86,305 10,000
37	FAMILY OF MED COMM FOR COMBAT CASUALTY CARE	1,374	1,374
38	ARMY COMMUNICATIONS & ELECTRONICS	52,485	52,485
39	CI AUTOMATION ARCHITECTURE-INTEL	16,767	16,767
41	MULTI-DOMAIN INTELLIGENCE Phase program growth	119,989	100,789 -19,200
42	INFORMATION SYSTEM SECURITY PROGRAM-ISSP	701	701
43	COMMUNICATIONS SECURITY (COMSEC) Carryover	159,712	156,821 -2,891
44	DEFENSIVE CYBER OPERATIONS Transfer to RDTE,A line 228	13,848	0 -13,848
45	INSIDER THREAT PROGRAM - UNIT ACTIVITY MONITORING Transfer to RDTE,A line 228	1,502	0 -1,502
47	BIOMETRIC ENABLING CAPABILITY (BEC)	453	453



P-1		Budget Request	Final Bill
49	BASE SUPPORT COMMUNICATIONS Program increase - land mobile radios	23,278	38,278 15,000
50	INFORMATION SYSTEMS	32,608	32,608
51	EMERGENCY MANAGEMENT MODERNIZATION PROGRAM	4,949	4,949
52	INSTALLATION INFO INFRASTRUCTURE MOD PROGRAM	243,011	243,011
55	JTT/CIBS-M	8,543	8,543
56	TERRESTRIAL LAYER SYSTEMS (TLS) Early to need - TLS BCT manpack production	85,486	56,830 -28,656
58	DCGS-A-INTEL	2,980	2,980
60	TROJAN	30,649	30,649
61	MOD OF IN-SVC EQUIP (INTEL SPT) Program increase - Prophet enhanced ESP kits	4,169	14,169 10,000
62	BIOMETRIC TACTICAL COLLECTION DEVICES	932	932
63	EW PLANNING & MANAGEMENT TOOLS (EWPMT)	21,278	21,278
64	AIR VIGILANCE (AV)	6,641	6,641
65	MULTI-FUNCTION ELECTRONIC WARFARE (MFEW)	15,941	15,941
67	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES Carryover	22,833	19,083 -3,750
68	CI MODERNIZATION	434	434
69	SENTINEL MODS	161,886	161,886
70	NIGHT VISION DEVICES Program decrease Transfer to RDTE,A line 101 Excess IVAS PM costs Program increase - ENVG-B Unjustified request - IVAS 1.0 and 1.1 fielding	141,143	249,122 -8,030 -20,055 -12,912 160,000 -11,024
71	SMALL TACTICAL OPTICAL RIFLE MOUNTED MLRF	15,484	15,484
73	FAMILY OF WEAPON SIGHTS (FWS)	185,634	185,634
74	ENHANCED PORTABLE INDUCTIVE ARTILLERY FUZE SETTER	3,652	3,652
75	FORWARD LOOKING INFRARED (IFLIR)	20,438	20,438
76	COUNTER SMALL UNMANNED AERIAL SYSTEM (C-SUAS) Unjustified growth - Army operational division Unjustified growth - integrated logistics support Transfer from P,DW line 2	365,376	317,725 -16,210 -52,691 21,250



P-1		Budget Request	Final Bill
77	JOINT BATTLE COMMAND - PLATFORM (JBC-P) Acquisition objective met	215,290	154,049 -61,241
78	JOINT EFFECTS TARGETING SYSTEM (JETS)	8,932	8,932
79	COMPUTER BALLISTICS: LHMBC XM32 Prior year underexecution	2,965	1,653 -1,312
80	MORTAR FIRE CONTROL SYSTEM	8,024	8,024
81	MORTAR FIRE CONTROL SYSTEMS MODIFICATIONS	7,399	7,399
82	COUNTERFIRE RADARS Contract savings	99,782	73,799 -25,983
83	ARMY COMMAND POST INTEGRATED INFRASTRUCTURE	78,512	78,512
84	FIRE SUPPORT C2 FAMILY	10,052	10,052
85	AIR & MSL DEFENSE PLANNING & CONTROL SYSTEM	68,892	68,892
86	IAMD BATTLE COMMAND SYSTEM Unjustified growth - engineering change proposals	412,556	399,556 -13,000
87	LIFE CYCLE SOFTWARE SUPPORT (LCSS)	4,270	4,270
88	NETWORK MANAGEMENT INITIALIZATION AND SERVICE	37,194	37,194
89	GLOBAL COMBAT SUPPORT SYSTEM-ARMY (GCSS-A)	1,987	1,987
90	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY	5,318	5,318
91	MOD OF IN-SVC EQUIPMENT (ENFIRE) Program increase - land surveying systems	4,997	14,997 10,000
92	ARMY TRAINING MODERNIZATION	10,130	10,130
93	AUTOMATED DATA PROCESSING EQUIPMENT Ahead of need	61,489	59,426 -2,063
94	ACCESSIONS INFORMATION ENVIRONMENT (AIE)	4,198	4,198
96	HIGH PERF COMPUTING MOD PGM (HPCMP)	76,053	76,053
97	CONTRACT WRITING SYSTEM	6,061	6,061
98	CSS COMMUNICATIONS	56,804	56,804
102	BASE DEFENSE SYSTEMS (BDS)	70,781	70,781
103	CBRN DEFENSE Early to need - NBCRV SSU	63,198	57,198 -6,000
104	TACTICAL BRIDGING	1,157	1,157
105	TACTICAL BRIDGE, FLOAT-RIBBON	82,228	82,228

P-1		Budget Request	Final Bill
106	BRIDGE SUPPLEMENTAL SET	4,414	4,414
110	ROBOTICS AND APPLIQUE SYSTEMS Program increase - soldier borne sensor Effort previously funded	68,893	65,118 5,000 -8,775
112	FAMILY OF BOATS AND MOTORS	4,785	4,785
113	HEATERS AND ECUS Contract savings - improved environmental control units	7,617	7,170 -447
115	PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)	5,356	5,356
116	GROUND SOLDIER SYSTEM Pricing adjustment - systems fielding	167,129	154,262 -12,867
117	MOBILE SOLDIER POWER Quantities previously funded - universal battery charger	15,967	13,284 -2,683
118	FORCE PROVIDER Program increase - arctic basing solutions Program increase - expeditionary base modules - Army National Guard Program increase - expeditionary shelter protection system	34,200	75,200 10,000 5,000 26,000
120	CARGO AERIAL DEL & PERSONNEL PARACHUTE SYSTEM Early to need - M-code capabilities	45,792	42,279 -3,513
121	FAMILY OF ENGR COMBAT AND CONSTRUCTION SETS	12,118	12,118
123	QUALITY SURVEILLANCE EQUIPMENT	2,507	2,507
124	DISTRIBUTION SYSTEMS, PETROLEUM & WATER	40,989	40,989
125	COMBAT SUPPORT MEDICAL	86,829	86,829
126	MOBILE MAINTENANCE EQUIPMENT SYSTEMS Program increase - next generation HMMWV shop equipment contact maintenance vehicle	17,287	137,287 120,000
128	TRACTOR, FULL TRACKED	29,878	29,878
129	ALL TERRAIN CRANES Program increase - Type I all terrain cranes	27,725	35,725 8,000
131	FAMILY OF DIVER SUPPORT EQUIPMENT	1,811	1,811
132	CONST EQUIP ESP Prior year underexecution	8,898	6,534 -2,364
133	ARMY WATERCRAFT ESP	30,592	30,592
134	MANEUVER SUPPORT VESSEL (MSV) Functional transfer - two additional vessels Functional transfer - cost to complete prior year vessels Functional transfer - program delays	149,449	149,449 99,545 49,904 -149,449

P-1	Budget Request	Final Bill
136 GENERATORS AND ASSOCIATED EQUIPMENT	78,364	78,364
137 TACTICAL ELECTRIC POWER RECAPITALIZATION Program increase - deployable power generation and distrib	11,088 ution system power unit	19,088 8,000
138 FAMILY OF FORKLIFTS	12,982	12,982
139 COMBAT TRAINING CENTERS SUPPORT	56,619	56,619
140 TRAINING DEVICES, NONSYSTEM	226,379	226,379
141 SYNTHETIC TRAINING ENVIRONMENT (STE)	234,965	234,965
142 GAMING TECHNOLOGY IN SUPPORT OF ARMY TRAINING	9,698	9,698
143 INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE)	36,149	36,149
144 TEST EQUIPMENT MODERNIZATION (TEMOD)	32,623	32,623
145 PHYSICAL SECURITY SYSTEMS (OPA-3)	132,739	132,739
146 BASE LEVEL COMMON EQUIPMENT	34,460	34,460
147 MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) Program increase - rough terrain crane handler service life e	35,239 extension program	50,239 15,000
148 BUILDING, PRE-FAB, RELOCATABLE Excess to need	31,011	12,500 -18,511
149 SPECIAL EQUIPMENT FOR TEST AND EVALUATION	52,481	52,481
151 INITIAL SPARES - C&E	9,169	9,169
999 CLASSIFIED PROGRAMS	1,781	1,781
TOTAL, OTHER PROCUREMENT, ARMY	8,672,979	8,626,297

AIRCRAFT PROCUREMENT, NAVY

The agreement provides \$19,826,909,000 for Aircraft Procurement, Navy, as follows:

P-1		Budget Request	Final Bill
1	F/A-18E/F (FIGHTER) HORNET	41,329	41,329
2	JOINT STRIKE FIGHTER CV Excess to need - AME Excess to need - NRE Unit cost shortfalls JPO requested functional transfer from line 3	2,410,569	2,441,698 -16,360 -32,159 48,519 31,129
3	JOINT STRIKE FIGHTER CV (AP-CY) JPO requested functional transfer to line 2	189,425	158,296 -31,129
4	JSF STOVL Excess to need - AME Excess to need - NRE Unit cost shortfalls JPO requested functional transfer from line 5	2,126,317	2,161,079 -15,646 -27,020 42,666 34,762
5	JSF STOVL (AP-CY) JPO requested functional transfer to line 4	193,125	158,363 -34,762
6	CH-53K (HEAVY LIFT) Contract award delay	1,698,050	1,686,050 -12,000
7	CH-53K (HEAVY LIFT) (AP-CY)	456,567	456,567
8	V-22 (MEDIUM LIFT) Production line shutdown early to need Program increase - five additional CMV-22	27,216	694,916 -7,300 675,000
9	H-1 UPGRADES (UH-1Y/AH-1Z)	4,292	4,292
10	P-8A POSEIDON Program increase - ten additional aircraft	31,257	1,831,257 1,800,000
11	E-2D ADV HAWKEYE Production line shutdown early to need Program increase - two additional aircraft	182,817	571,100 -24,717 413,000
13	MULTI-ENGINE TRAINING SYSTEM (METS)	289,141	289,141
15	KC-130J Program increase - Navy unique fleet essential airlift logistics KC-130J (+1 A/C Reserve)	241,291	360,091 118,800
17	MQ-4 TRITON	416,010	416,010
19	MQ-8 UAV	1,546	1,546
21	MQ-25 Transfer funds to RDT&E, N line 164 in support of two SDTA aircraft due to MS C delays Ahead of need	545,697	-89,852 -455,845
22	MQ-25 (AP-CY) Previously funded	50,576	11,979 -38,597
23	MARINE GROUP 5 UAS Ancillary equipment carryover	89,563	86,063 -3,500

P-1		Budget Request	Final Bill
23A	UC-12W(ER) Program increase - unfunded requirement for 3 UC-12W(ER) with cargo door	0	57,053 57,053
24	F-18 A-D UNIQUE 31C SCS excess growth	116,551	108,226 -8,325
25	F-18E/F AND EA-18G MODERNIZATION AND SUSTAINMENT	605,416	605,416
26	MARINE GROUP 5 UAS SERIES	98,063	98,063
27	AEA SYSTEMS Transmitters unit cost growth Program increase - ALQ-99 Low Band Airborne Electronic Attack	24,110	22,396 -4,214 2,500
28	AV-8 SERIES Historical underexecution	22,829	20,829 -2,000
29	INFRARED SEARCH AND TRACK (IRST)	179,193	179,193
30	ADVERSARY	69,336	69,336
31	F-18 SERIES F/A-18 C/D/E/F and EA-18G training equipment previously funded ECP6506 CPOMS improvements installs ahead of need ECP6486 SATCOM E/F installs previously funded ECP6486 SATCOM G installs previously funded	640,236	626,461 -5,812 -1,573 -2,428 -3,962
32	H-53 SERIES	41,414	41,414
33	MH-60 SERIES MH-60R/S obolescence excess to need	106,495	104,233 -2,262
34	H-1 SERIES Program increase - structural improvements	114,284	124,284 10,000
35	EP-3 SERIES	8,548	8,548
36	E-2 SERIES Radio obsolescence mitigation kits ahead of need Installs ahead of need	183,246	173,735 -4,921 -4,590
37	TRAINER A/C SERIES	16,376	16,376
39	C-130 SERIES BLOS B-Kit installation previously funded OSIP 019-14 GFE excess to need	198,220	191,760 -460 -6,000
40	FEWSG	651	651
41	CARGO/TRANSPORT A/C SERIES	13,930	13,930
42	E-6 SERIES HPTS A and B Kits previously funded Communications upgrade (OSIP 012-07) support costs previously funded Mission systems (OSIP 014-21) training costs unjustified Program increase - capability improvements	164,571	158,783 -5,727 -3,438 -4,064 7,441
43	EXECUTIVE HELICOPTERS SERIES	60,498	60,498
44	T-45 SERIES	170,357	170,357

P-1		Budget Request	Final Bill
45	POWER PLANT CHANGES	21,079	21,079
46	JPATS SERIES	28,005	28,005
48	COMMON ECM EQUIPMENT	53,614	53,614
49	COMMON AVIONICS CHANGES	136,199	136,199
50	COMMON DEFENSIVE WEAPON SYSTEM Program increase - aviation infrared laser aiming device	6,585	13,585 7,000
51	ID SYSTEMS	13,085	13,085
52	P-8 SERIES	316,168	316,168
53	MAGTF EW FOR AVIATION	24,901	24,901
54	MQ-8 SERIES	14,700	14,700
55	V-22 (TILT/ROTOR ACFT) OSPREY MV-22 readiness (OSIP 028-12) ECP 1206 APU K8/K9	215,997	204,840
	improvement previously funded MV-22 readiness (OSIP 028-12) ECP 1115.1 conversion area harness prev MV-22 readiness ECP 1081 aft sponson fuel tank previously funded MV-22 readiness ECP 1196.1 coanda valve reliability improvement previous Other support cost previously funded	•	-1,221 -4,454 -1,457 -1,932 -2,093
56	NEXT GENERATION JAMMER (NGJ) Support equipment (OSIP 002-19) unjustified growth Contract savings	426,396	418,852 -5,024 -2,520
57	F-35 STOVL SERIES Early to need - Lot 19 modifications	311,921	259,412 -52,509
58	F-35 CV SERIES Early to need - Lot 19 modifications	166,909	126,909 -40,000
59	QRC	28,206	28,206
60	MQ-4 SERIES Increment 1 main and forward operating base upgrade previously funded OSIP (004-23) previously funded OSIP (003-23) installation ahead of need	93,951	72,334 -12,809 -3,128 -5,680
62	SPARES AND REPAIR PARTS Program increase - F-35B/C engine spares Program increase - CH-53K initial and outfitting spares	2,451,244	2,697,244 132,000 114,000
63	COMMON GROUND EQUIPMENT Hydraulics particle counter contract award delay Electrical AECTS replacement modification contract award delay Unit cost growth	566,156	559,253 -3,620 -2,717 -566
64	AIRCRAFT INDUSTRIAL FACILITIES Program increase - additive manufacturing tier 2 sustainment	133,815	137,815 4,000
65	WAR CONSUMABLES	44,632	44,632
66	OTHER PRODUCTION CHARGES	49,907	49,907

P-1	Budget Request	Final Bill
67 SPECIAL SUPPORT EQUIPMENT Classified adjustment	404,178	384,850 -19,328
TOTAL, AIRCRAFT PROCUREMENT, NAVY	17,336,760	19,826,909

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WEAPONS PROCUREMENT, NAVY

The agreement provides \$5,876,828,000 for Weapons Procurement, Navy, as follows:

(INSERT PROJECT-LEVEL TABLE) & (Insert 73A-B

P-1		Budget Request	Final Bill
Early to Early to	TIONAL PROMPT STRIKE need - procurement support costs need - TI-22 AUR + C or to RDT&E, N line 97	341,434	-33,290 -108,144 -200,000
	II MODS	1,284,705	1,284,705
3 MISSILE	INDUSTRIAL FACILITIES	7,954	7,954
4 TOMAHA Program	NWK m increase - Tomahawk supply chain	72,908	77,908 5,000
5 AMRAAN Unjustit	M fied request	439,153	385,678 -53,475
	DER ock II unit cost increase eair training block missile unit cost increase	78,165	68,306 -5,477 -4,382
Navy re Unjustii Prograr Block II	RD MISSILE equested realignment to RDTE,N line 125 fied request m increase - second source rocket motor B delays A production delays	969,525	663,758 -12,600 -169,268 50,000 -98,037 -75,862
	RD MISSILE (AP-CY) ied request	227,320	117,620 -109,700
•	DIAMETER BOMB II bit cost growth	65,863	63,035 -2,828
10 RAM		114,896	114,896
	R GROUND MISSILE (JAGM) AUR unit cost growth	79,292	73,924 -5,368
12 HELLFIR	E	6,923	6,923
13 AERIAL 7 EM203	FARGETS GQM-163A excess unit cost	176,588	174,725 -1,863
14 OTHER N	MISSILE SUPPORT	3,687	3,687
15 LRASM Navy re	equested transfer to RDT&E, N line 92 for LRASM C-3	639,636	599,636 -40,000
	TRIKE MISSILE (NSM) trike missile unit cost growth	29,925	25,551 -4,374
17 NAVAL S	TRIKE MISSILE (NSM) (AP-CY)	5,755	5,755
NAVCC	WK MODS MM A kits excess growth ed adjustment	540,944	437,424 -28,620 -74,900
19 ESSM		290,129	290,129

P-1		Budget Request	Final Bill
20	AARGM-ER Program increase - additional AURs	162,429	167,429 5,000
21	AARGM-ER (AP-CY)	33,273	33,273
22	STANDARD MISSILES MODS SM-2 BLK IIIC unit cost growth	89,255	80,536 -8,719
23	WEAPONS INDUSTRIAL FACILITIES Program increase - energetics capactiy for solid rocket motors	2,037	21,037 19,000
25	ORDNANCE SUPPORT EQUIPMENT Classified adjustment	208,154	168,654 -39,500
26	SSTD	4,830	4,830
27	MK-48 TORPEDO Guidance and control previously funded Installation excess cost	308,497	296,347 -10,332 -1,818
28	ASW TARGETS Program increase - alternative ASW training target	14,817	24,817 10,000
29	MK-54 TORPEDO MODS	104,086	104,086
30	MK-48 TORPEDO ADCAP MODS	20,714	20,714
31	MARITIME MINES	58,800	58,800
32	TORPEDO SUPPORT EQUIPMENT	133,187	133,187
33	ASW RANGE SUPPORT	4,146	4,146
34	FIRST DESTINATION TRANSPORTATION	5,811	5,811
35	SMALL ARMS AND WEAPONS	14,165	14,165
36	CIWS MODS	4,088	4,088
37	COAST GUARD WEAPONS	55,172	55,172
38	GUN MOUNT MODS	82,682	82,682
39	LCS MODULE WEAPONS	3,264	3,264
40	AIRBORNE MINE NEUTRALIZATION SYSTEMS	14,357	14,357
42	SPARES AND REPAIR PARTS	177,819	177,819
	TOTAL, WEAPONS PROCUREMENT, NAVY	6,876,385	5,876,828

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS

The agreement provides \$1,161,205,000 for Procurement of Ammunition, Navy and Marine Corps, as follows:

(INSERT PROJECT LEVEL TABLE) (Insert 74A-B

P-1		Budget Request	Final Bill
1	GENERAL PURPOSE BOMBS Unjustified growth	43,519	35,159 -8,360
2	JDAM Miscellaneous support excess growth	73,689	70,049 -3,640
3	AIRBORNE ROCKETS, ALL TYPES MK 66 rocket motor unit cost growth Containers excess growth Smokey Sam excess unit cost growth	67,423	52,046 -12,196 -2,760 -421
4	MACHINE GUN AMMUNITION	11,862	11,862
5	PRACTICE BOMBS Unjustified growth	52,481	44,524 -7,957
6	CARTRIDGES & CART ACTUATED DEVICES	72,426	72,426
7	AIR EXPENDABLE COUNTERMEASURES Dual band decoy contract award delay	104,529	89,369 -15,160
8	JATOS	7,433	7,433
9	5 INCH/54 GUN AMMUNITION Insufficient justification	30,871	10,871 -20,000
10	INTERMEDIATE CALIBER GUN AMMUNITION Unjustified growth	41,261	27,870 -13,391
11	OTHER SHIP GUN AMMUNITION Unjustified growth	44,044	39,595 -4,449
12	SMALL ARMS & LANDING PARTY AMMO	48,478	48,478
13	PYROTECHNIC AND DEMOLITION Unjustified unit cost increase - Sig Kit MK 189, MOD 0	9,521	9,498 -23
14	AMMUNITION LESS THAN \$5 MILLION	1,679	1,679
15	EXPEDITIONARY LOITERING MUNITIONS	249,575	249,575
16	MORTARS CA63 CTG mortar 81MM HE frag unit cost growth BA44 CTG mortar 60MM hardware unit cost growth	61,274	54,851 -4,778 -1,645
17	DIRECT SUPPORT MUNITIONS 7.62mm training round excess to need Cartridge, 30mm 1 HEI–T MK266 / 1 MPLD–T MK264 linked excess to need Cartridge, 30mm APFSDS–T MK258 Mod 1 linked excess to need 20mm training round excess to need 84mm TPT (700) excess to need 84mm anti structure unjustified unit cost growth Excess to need	73,338	53,898 -435 -4,619 -3,160 -994 -693 -5,954 -3,585



P-1		Budget Request	Final Bill
18	INFANTRY WEAPONS AMMUNITION	178,240	168,512
	B542, CTG, 40MM LNKD high explosive dual purpose hardware unit cost gro	•	-1,808
	AB39, CTG, 7.62 millimeter, MK 316 mod contract award delay		-602
	AC15, CAL .50 4 & 1 contract award delay		-3,315
	Cartridge, 7.62mm ball M80 linked excess to need		-1,543
	Cartridge, 9mm ball M882 excess to need		-225
	Cartridge, caliber .50 4 API M8/1 API-T M20 linked excess to need		-157
	Cartridge, 25mm TPDS-T M910 linked excess to need		-4,581
	Cartridge, 5.56mm short range training M862 excess to need		-380
	Cartridge, 9mm blank single round excess to need		-118
	Cartridge, Caliber .50 Linked MK322 Mod 1/Ball (1000m cap) excess to need	i i	-1,226
	M1041 9mm marking (blue) excess to need		-95
	M1041 9mm marking (red) excess to need		-90
	Cartridge, 5.56mm M1042 practice ammunition rifle (blue) excess to need		-981
	Cartridge, 5.56mm M1042 practice ammunition rifle (red) excess to need		-981
	Excess to need		-626
	Program increase - 40mm, Day/Night marker M1110		7,000
19	COMBAT SUPPORT MUNITIONS	15,897	11,133
	GG20 Grenade, Hand Diversionary MK13 MOD excess to need		-894
	G963 Grenade, Hand Riot CS M7A3 excess to need		-307
	DWDN lightweight disposable disrupter excess to need		-467
	Ground burst projectile simulator M115A2 excess to need		-3,096
20	AMMO MODERNIZATION	17,941	17,941
21	ARTILLERY MUNITIONS	82.452	79,096
	M795 metal parts unjustified cost growth	,	-3,356
22	ITEMS LESS THAN \$5 MILLION	5,340	5,340
	TOTAL, PROCUREMENT OF AMMUNITION, NAVY AND MARINE	1,293,273	1,161,205



SHIPBUILDING AND CONVERSION, NAVY

The agreement provides \$33,665,493,000 for Shipbuilding and Conversion, Navy, as follows:

P-1		Budget Request	Final Bill
1	COLUMBIA CLASS SUBMARINE	2,443,598	2,443,598
2	COLUMBIA CLASS SUBMARINE (AP-CY)	3,390,734	3,390,734
	SSBN 828 AP (FF FY26)	[949,654]	[949,654]
	SSBN 829 AP (FF FY27)	[1,299,280]	[1,299,280]
	SSBN 830 AP (FF FY28)	[306,938]	[306,938]
	SSBN 831 AP (FF FY29)	[134,009]	[134,009]
	SSBN 832 AP (FF FY30)	[110,841]	[110,841]
	SSBN 833 AP (FF FY31)	[7,953]	[7,953]
	SSBN 834 AP (FF FY32)	[2,708]	[2,708]
	SSBN 835 AP (FF FY33)	[4,930]	[4,930]
	SSBN 836 AP (FF FY34)	[4,930]	[4,930]
	SSBN 837 AP (FF FY35)	[569,491]	[569,491]
3	CARRIER REPLACEMENT PROGRAM (CVN-80) Joint precision aircraft landing system early to need	1,115,296	1,104,421 -10,875
	Joint precision archait landing system early to need		
4	CARRIER REPLACEMENT PROGRAM (CVN-81)	800,492	800,492
5	VIRGINIA CLASS SUBMARINE	7,129,965	7,129,965
6	VIRGINIA CLASS SUBMARINE (AP-CY)	3,215,539	3,158,782
	Long lead time CFE AP prior year execution delays		-56,757
8	CVN REFUELING OVERHAULS (AP-CY)	817,646	488,446
	CVN 75 RCOH prior year execution delays		-329,200
9	DDG 1000	410,400	392,892
	Mission systems activation unjustified growth		-17,508
10	DDG-51	4,199,179	4,499,179
	Program increase - large surface combatant shipyard infrastructure		300,000
11	DDG-51 (AP-CY)	284,035	1,641,335
	Program increase - advance procurement for additional FY25 DDG 51		1,280,000
	Realignment of fiscal year 2023 funds for advance procurement of additional	al FY25 DDG 51	77,300
13	FFG-FRIGATE	2,173,698	2,183,861
	GFE unjustified growth		-30,287
	Change orders unjustified growth		-9,550
	Program increase - frigate industrial base and workforce development		50,000
15	LPD FLIGHT II (AP-CY)	0	500,000
	Program increase - advance procurement of LPD 33		250,000
	Realignment of fiscal year 2023 funds for advance procurement of LPD 33		250,000
18	LHA REPLACEMENT	1,830,149	1,830,149
21	AS SUBMARINE TENDER	1,733,234	0
	Program adjustment		-1,633,234
	Transfer to RDN, line 45 for AS(X) design		-100,000

P-1		Budget Request	Final Bill
22	TAO FLEET OILER	815,420	815,420
23	TAGOS SURTASS SHIPS	0	513,466
	Transfer from line 32 - T–AGOS		355,166
	Realignment of fiscal year 2022 funds for full funding of T–AGOS construction	n	158,300
25	LCU 1700	62,532	62,532
26	OUTFITTING	557,365	512,019
	Outfitting early to need		-1,918
	CVN 80 outfitting early to need		-4,096
	CVN 74 RCOH outfitting excess growth		-17,862
	DDG 129 outfitting early to need		-11,670
	EPF 16 outfitting early to need		-3,822
	T-AGS outfitting early to need		-5,978
27	SHIP TO SHORE CONNECTOR	0	585,000
	Program increase - four additional SSC		585,000
28	SERVICE CRAFT	63,815	93,815
	Program increase - one additional YRBM	55,515	30,000
29	AUXILIARY PERSONNEL LIGHTER	0	72,000
	Program increase - one additional APL		72,000
30	LCAC SLEP	15,286	15,286
31	AUXILIARY VESSELS (USED SEALIFT)	142,008	142,008
32	COMPLETION OF PY SHIPBUILDING PROGRAMS	1,648,559	1,290,093
	Transfer to line 23 - T-AGOS	, ,	-355,166
	FY 2022 T-ATS CTC early to need		-3,300
	TOTAL, SHIPBUILDING AND CONVERSION, NAVY	32,848,950	33,665,493

SUBMARINE CONSTRUCTION PERFORMANCE

Concerns remain about the VIRGINIA Class Submarine (VCS) construction cost and schedule performance, which impact not only the construction and delivery to the fleet of VCS, but also affect the COLUMBIA Class Submarine (COL) construction schedule. It is noted that the fiscal year 2024 President's budget request includes funds for cost overruns of VCSs procured in fiscal years 2015, 2016, and 2017, and that cost overruns on additional ongoing new VCS construction programs are expected to exceed \$3,000,000,000 in future years. The Secretary of the Navy is directed to submit to the congressional defense committees the most current cost and schedule estimates, by VCS and COL, with the submission of each annual President's budget request until delivery of the twelfth and final COLUMBIA hull. The report shall identify changes from the previous year, and include detailed explanations for all submarines not fully resourced to the Navy's cost estimate, as well as all projected cost-to-complete requirements for previously appropriated submarines.

Additionally, it is noted that in directing a comprehensive Navy shipbuilding review in January, the Secretary of the Navy stated, "I remain concerned with the lingering effects of post-pandemic conditions on our shipbuilders and their suppliers that continue to affect our shipbuilding programs, particularly our COLUMBIA Class Ballistic Missile Submarines...." The Secretary is directed to brief the congressional defense committees on the findings of this review within 30 days of completion. As part of this briefing, the Secretary is directed to identify the Department of the Navy's proposed near-term actions to prevent further SSBN-826 schedule delays, mid-term actions to stabilize production and enable on-time delivery of SSBN-827, and long-term actions to enable the on-time and on-budget delivery of SSBN-828 through SSBN-837.

Further, concerns remain with the technology maturity of certain COL subsystems, which could affect the construction and delivery timelines. Accordingly, the Senior Technical Authority for COL, as designated under section 8669b of title 10, United States Code, is directed to provide directly to the congressional defense committees quarterly updates on the technology readiness of key COL subsystems and components until SSBN-826 completes its first strategic deterrent patrol. These updates shall include, at a minimum, technology maturation metrics and identification of technical, schedule, or other significant issues for the following subsystems: stern area system, advanced carbon dioxide removal unit, integrated power system (including turbine generators), torpedo tubes, strategic weapons system, and such other subsystems or components as the Senior Technical Authority may designate.

Finally, the Comptroller General is directed to conduct a comprehensive review of the VCS program, including: (1) the current status of Block V construction relative to cost, schedule, quality and performance expectations as well as risks to successfully constructing future submarines; (2) the Navy's approach to contracting and funding for Block VI, including expected savings from a multiyear procurement strategy; (3) the Navy's ability to efficiently manage VCS construction during concurrent COL construction; (4) the Navy's strategy for providing VCS to Australia; and (5) the Navy's plans for SSN(X) development. The Comptroller General is directed to provide an update briefing on this comprehensive review to the congressional defense committees not later than October 1, 2024, to be followed with quarterly updates and the final report.

OTHER PROCUREMENT, NAVY

The agreement provides \$14,385,665,000 for Other Procurement, Navy, as follows:

P-1		Budget Request	Final Bill
1	SURFACE POWER EQUIPMENT Propellers and shafts – DDG 1000 blade set cost growth	14,003	12,864 -1,139
2	SURFACE COMBATANT HM&E Ship control systems DDG 51 class cost growth	105,441	99,337 -6,104
3	OTHER NAVIGATION EQUIPMENT Unjustified request	110,286	105,245 -5,041
4	SUB PERISCOPE, IMAGING AND SUPT EQUIP PROG	262,951	262,951
5	DDG MOD Solid state radar equipment support costs excess growth Program increase - bromine free water systems Program increase - artificial intelligence for ready relevant learning	628,532	637,092 -2,940 9,000 2,500
6	FIREFIGHTING EQUIPMENT	34,782	34,782
7	COMMAND AND CONTROL SWITCHBOARD	2,458	2,458
8	LHA/LHD MIDLIFE Amplified announcing system installation unjustified request	104,369	102,403 -1,966
9	LCC 19/20 EXTENDED SERVICE LIFE PROGRAM	10,529	10,529
10	POLLUTION CONTROL EQUIPMENT	23,272	23,272
11	SUBMARINE SUPPORT EQUIPMENT	112,526	112,526
12	VIRGINIA CLASS SUPPORT EQUIPMENT	32,076	32,076
13	LCS CLASS SUPPORT EQUIPMENT	18,832	18,832
14	SUBMARINE BATTERIES	28,221	28,221
15	LPD CLASS SUPPORT EQUIPMENT Mid-life modernization NRE early to need HW/SW obsolescence installation cost growth	91,890	80,994 -4,156 -6,740
16	DDG 1000 CLASS SUPPORT EQUIPMENT SPECTRAL integration previously funded	232,124	220,924 -11,200
17	STRATEGIC PLATFORM SUPPORT EQUIP SWSS (VAMP MOD 3) unjustified growth	25,058	23,403 -1,655
18	DSSP EQUIPMENT	4,623	4,623
20	LCAC	10,794	10,794
21	UNDERWATER EOD EQUIPMENT	19,549	19,549
22	ITEMS LESS THAN \$5 MILLION	86,001	86,001

P-1		Budget Request	Final Bill
23	CHEMICAL WARFARE DETECTORS	3,288	3,288
24	SHIP MAINTENANCE, REPAIR AND MODERNIZATION Early to need	2,746,313	2,514,988 -231,325
25	REACTOR POWER UNITS	2,016	2,016
26	REACTOR COMPONENTS	390,148	390,148
27	DIVING AND SALVAGE EQUIPMENT	18,086	18,086
28	STANDARD BOATS Program increase - diesel fuel outboard motor testing Program increase	74,963	208,578 9,000 124,615
29	OPERATING FORCES IPE Prior year under execution Program increase - oily waste treatment systems Program increase - submarine cradles to mitigate seismic risk during dry-docking availabilities	187,495	210,888 -6,607 10,000 20,000
30	LCS COMMON MISSION MODULES EQUIPMENT	49,060	49,060
31	LCS MCM MISSION MODULES Electromagnetic sweep cables contract award delay	93,961	91,670 -2,291
33	LCS SUW MISSION MODULES	12,102	12,102
34	LCS IN-SERVICE MODERNIZATION Combat system installation excess growth	171,704	154,674 -17,030
35	SMALL & MEDIUM UUV MK 18 advanced sensor package previously funded	61,951	56,856 -5,095
36	LSD MIDLIFE & MODERNIZATION	7,594	7,594
37	SPQ-9B RADAR	7,267	7,267
38	AN/SQQ-89 SURF ASW COMBAT SYSTEM	138,065	138,065
39	SSN ACOUSTIC EQUIPMENT	463,577	463,577
40	UNDERSEA WARFARE SUPPORT EQUIPMENT	23,452	23,452
41	SUBMARINE ACOUSTIC WARFARE SYSTEM ADC MK3 non recurring unjustified request	46,726	41,726 -5,000
42	SSTD	14,560	14,560
43	FIXED SURVEILLANCE SYSTEM	420,069	420,069
44	SURTASS	33,910	33,910
45	AN/SLQ-32	329,513	329,513

P-1		Budget Request	Final Bill
46	SHIPBOARD IW EXPLOIT Mods ECP excess support growth	379,230	376,000 -3,230
47	AUTOMATED IDENTIFICATION SYSTEM (AIS)	4,082	4,082
48	COOPERATIVE ENGAGEMENT CAPABILITY	37,677	37,677
49	NAVAL TACTICAL COMMAND SUPPORT SYSTEM	15,374	15,374
50	ATDLS	50,148	50,148
51	NAVY COMMAND AND CONTROL SYSTEM	3,918	3,918
52	MINESWEEPING SYSTEM REPLACEMENT	16,814	16,814
54	NAVSTAR GPS RECEIVERS (SPACE)	37,319	37,319
55	AMERICAN FORCES RADIO AND TV SERVICE	2,750	2,750
56	STRATEGIC PLATFORM SUPPORT EQUIP	6,437	6,437
57	ASHORE ATC EQUIPMENT ATNAVICS precision approach radar replacement unit cost growth	89,237	88,173 -1,064
58	AFLOAT ATC EQUIPMENT AN/SPN-50(V)1 excess support costs	90,487	88,369 -2,118
59	ID SYSTEMS	59,234	59,234
60	JOINT PRECISION APPROACH AND LANDING SYSTEM	3,343	3,343
61	NAVAL MISSION PLANNING SYSTEMS Next generation naval mission planning system unjustified growth	39,180	34,750 -4,430
62	MARITIME INTEGRATED BROADCAST SYSTEM	6,994	6,994
63	TACTICAL/MOBILE C4I SYSTEMS	52,026	52,026
64	DCGS-N	16,579	16,579
65	CANES	467,587	467,587
66	RADIAC	16,475	16,475
67	CANES-INTELL	48,207	48,207
68	GPETE	25,761	25,761
69	MASF	16,475	16,475
70	INTEG COMBAT SYSTEM TEST FACILITY	6,345	6,345
71	EMI CONTROL INSTRUMENTATION	4,282	4,282

P-1		Budget Request	Final Bill
73	IN-SERVICE RADARS AND SENSORS I-Stalker install cost excess growth	255,256	290,413 -2,054
	Program increase - next generation surface search radar additional units SPEIR Block I early to need		58,000 -20,789
74	BATTLE FORCE TACTICAL NETWORK	74,180	74,180
75	SHIPBOARD TACTICAL COMMUNICATIONS	29,776	29,776
76	SHIP COMMUNICATIONS AUTOMATION	96,916	96,916
77	COMMUNICATIONS ITEMS UNDER \$5M	14,107	14,107
78	SUBMARINE BROADCAST SUPPORT	73,791	73,791
79	SUBMARINE COMMUNICATION EQUIPMENT	83,178	83,178
80	SATELLITE COMMUNICATIONS SYSTEMS	72,871	72,903
	Commercial broadband satellite program support costs growth Program increase - concurrent multi-link antenna		-2,668 2,700
81	NAVY MULTIBAND TERMINAL (NMT)	37,921	37,921
82	JOINT COMMUNICATIONS SUPPORT ELEMENT Unjustified growth	5,065	3,858 -1,207
83	INFO SYSTEMS SECURITY PROGRAM (ISSP) Key management afloat support costs growth	154,890	153,716 -1,174
84	MIO INTEL EXPLOITATION TEAM	1,079	1,079
85	CRYPTOLOGIC COMMUNICATIONS EQUIP	17,483	17,483
86	COAST GUARD EQUIPMENT Historical underexecution	77,458	73,458 -4,000
88	SONOBUOYS - ALL TYPES	311,177	311,177
89	MINOTAUR	5,396	5,396
90	WEAPONS RANGE SUPPORT EQUIPMENT	147,556	147,556
91	AIRCRAFT SUPPORT EQUIPMENT	162,273	161,203
	Lightweight matting contract award delay		-1,070
92	ADVANCED ARRESTING GEAR (AAG)	11,930	11,930
93	ELECTROMAGNETIC AIRCRAFT LAUNCH SYSTEM	17,836	17,836
94	METEOROLOGICAL EQUIPMENT	19,703	19,703
95	LEGACY AIRBORNE MCM Modifications insufficient justification	12,202	8,452 -3,750
97	AVIATION SUPPORT EQUIPMENT	82,115	82,115
98	UMCS-UNMAN CARRIER AVIATION MISSION CNTRL UCA transport system unit cost growth Historical underexecution	152,687	143,713 -1,974 -7,000

P-1		Budget Request	Final Bill
99	ARCHITECT & CAP FOR AUTONOMY IN NAV ENTER	1,612	1,612
100	SHIP GUN SYSTEMS EQUIPMENT	6,404	6,404
101	HARPOON SUPPORT EQUIPMENT	227	227
102	SHIP MISSILE SUPPORT EQUIPMENT SPY radar refurbishment excess growth NATO SEASPARROW acquisition strategy adjustment SSDS ship unit cost savings	294,511	280,563 -9,432 -1,134 -3,382
103	TOMAHAWK SUPPORT EQUIPMENT	92,432	92,432
104	STRATEGIC MISSILE SYSTEMS EQUIP Fire control SSI increment 15 production unit cost growth	325,318	322,738 -2,580
105	SSN COMBAT CONTROL SYSTEMS	133,063	133,063
106	ASW SUPPORT EQUIPMENT Program increase - Secure Autonomous Data Link for Undersea Warfare (USW) Portable Ranges (SADL-UP)	27,469	37,319 9,850
107	EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT	27,864	27,864
108	ITEMS LESS THAN \$5 MILLION	6,171	6,171
109	ANTI-SHIP MISSILE DECOY SYSTEM	56,630	56,630
110	SUBMARINE TRAINING DEVICE MODS	76,954	76,954
111	SURFACE TRAINING EQUIPMENT MB040 BFTT/ATD/TSTC installation excess growth	209,487	207,369 -2,118
112	PASSENGER CARRYING VEHICLES	3,827	3,827
113	GENERAL PURPOSE TRUCKS	4,570	4,570
114	CONSTRUCTION & MAINTENANCE EQUIP Program increase - GPS-based machine control systems	56,829	60,829 4,000
115	FIRE FIGHTING EQUIPMENT	16,583	16,583
116	TACTICAL VEHICLES	24,236	24,236
117	AMPHIBIOUS EQUIPMENT	4,504	4,504
118	POLLUTION CONTROL EQUIPMENT	3,898	3,898
119	ITEMS LESS THAN \$5 MILLION	67,286	67,286
120	PHYSICAL SECURITY VEHICLES	1,286	1,286
121	SUPPLY EQUIPMENT	33,258	33,258
122	FIRST DESTINATION TRANSPORTATION	6,977	6,977
123	SPECIAL PURPOSE SUPPLY SYSTEMS	659,529	659,529

P-1		Budget Request	Final Bill
124 T	RAINING SUPPORT EQUIPMENT	2,083	2,083
125 T	RAINING AND EDUCATION EQUIPMENT	106,542	106,542
126 C	OMMAND SUPPORT EQUIPMENT	44,448	44,448
127 N	IEDICAL SUPPORT EQUIPMENT Program increase - fleet hospital program	12,529	17,529 5,000
129 N	AVAL MIP SUPPORT EQUIPMENT	5,408	5,408
130 O	PERATING FORCES SUPPORT EQUIPMENT	12,105	12,105
131 C	4ISR EQUIPMENT	7,670	7,670
132 E	NVIRONMENTAL SUPPORT EQUIPMENT	52,597	52,597
133 P	C-UAS unjustified growth	108,901	104,973 -3,928
134 E	INTERPRISE INFORMATION TECHNOLOGY	42,154	42,154
139 N	EXT GENERATION ENTERPRISE SERVICE	177,585	177,585
140 C	Persistent cyber training environment unjustified request	23,176	14,176 -9,000
142 S	PARES AND REPAIR PARTS	645,900	645,900
143 V	IRGINIA CLASS (VACL) SPARES AND REPAIR PARTS	470,000	470,000
999 C	Classified adjustment	16,290	17,990 1,700
	UNDISTRIBUTED REDUCTION	0	-9,566
т	OTAL, OTHER PROCUREMENT, NAVY	14,535,257	14,385,665

PROCUREMENT, MARINE CORPS

The agreement provides \$3,904,532,000 for Procurement, Marine Corps, as follows:

(INSERT PROJECT LEVEL TABLE) & (Insert 79A-C

P-1		Budget Request	Final Bill
1	AAV7A1 PIP	3,353	3,353
2	AMPHIBIOUS COMBAT VEHICLE FAMILY OF VEHICLES Production support excess growth	557,564	554,009 -3,555
3	LAV PIP	42,052	42,052
4	155MM LIGHTWEIGHT TOWED HOWITZER	489	489
5	ARTILLERY WEAPONS SYSTEM Unit cost growth unjustified	165,268	160,060 -5,208
6	WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION	14,004	14,004
7	TOMAHAWK Carryover	105,192	93,648 -11,544
8	NAVAL STRIKE MISSILE (NSM)	169,726	169,726
9	NAVAL STRIKE MISSILE (NSM) (AP-CY)	39,244	39,244
10	GROUND BASED AIR DEFENSE Lightweight marine air defense system contract award delay Program increase - medium range intercept capability Program increase	249,103	280,018 -4,585 4,500 31,000
11	ANTI-ARMOR MISSILE-JAVELIN LWCLU surcharge unjustified	54,883	53,640 -1,243
12	FAMILY ANTI-ARMOR WEAPON SYSTEMS (FOAAWS) Unit cost growth	23,627	20,608 -3,019
13	ANTI-ARMOR MISSILE-TOW	2,007	2,007
14	GUIDED MLRS ROCKET (GMLRS)	8,867	8,867
15	COMMON AVIATION COMMAND AND CONTROL SYSTEM Engineering/fielding support excess growth AN/TSQ-297 small form factor unit cost growth	75,382	72,214 -2,474 -694
16	REPAIR AND TEST EQUIPMENT	53,590	53,590
17	MODIFICATION KITS	1,782	1,782
18	ITEMS UNDER \$5 MILLION (COMM & ELEC) SBNVG unit cost growth	122,917	115,016 -7,901
19	AIR OPERATIONS C2 SYSTEMS CTN system production cost growth ECPs excess growth	23,744	18,714 -2,786 -2,244
20	GROUND/AIR TASK ORIENTED RADAR (G/ATOR)	66,291	66,291
21	ELECTRO MAGNETIC SPECTRUM OPERATIONS (EMSO) MEGFoS dismounted backpackable systems early to need MEGFoS dismounted small form factor early to need Transfer to RDTE, N line 218 for small form factor acceleration	177,270	133,117 -34,637 -6,516 -3,000

P-1		Budget Request	Final Bill
22	GCSS-MC	4,144	4,144
23	FIRE SUPPORT SYSTEM Mobile shelter modernization contract award delay	58,483	55,308 -3,175
24	INTELLIGENCE SUPPORT EQUIPMENT	148,062	148,062
26	UNMANNED AIR SYSTEMS (INTEL) Long range/ long endurance unit cost growth Short range/ short endurance unit cost growth	52,273	48,252 -2,302 -1,719
27	DCGS-MC Program increase - Distributed Common Ground/Surface System- Marine Corps All-Source SCI workstations	68,289	73,419 5,130
28	UAS PAYLOADS	19,088	19,088
31	EXPEDITIONARY SUPPORT EQUIPMENT	2,010	2,010
32	MARINE CORPS ENTERPRISE NETWORK (MCEN) Network transport excess growth	259,044	238,358 -20,686
33	COMMON COMPUTER RESOURCES	27,966	27,966
34	COMMAND POST SYSTEMS Unit cost growth	71,109	69,143 -1,966
35	RADIO SYSTEMS LRS FoS TEAMS II independent mast contract award delay	544,059	512,512 -31,547
36	COMM SWITCHING & CONTROL SYSTEMS	46,276	46,276
37	COMM & ELEC INFRASTRUCTURE SUPPORT	27,111	27,111
38	CYBERSPACE ACTIVITIES	27,583	27,583
40	UNMANNED EXPEDITIONARY SYSTEMS	13,564	13,564
43	COMMERCIAL CARGO VEHICLES	34,169	34,169
44	MOTOR TRANSPORT MODIFICATIONS	17,299	17,299
45	JOINT LIGHT TACTICAL VEHICLE Vehicle kits previously funded Test support excess to need	232,501	221,657 -6,600 -4,244
46	TRAILERS Program increase - Project 7/11 modular operations cells	2,034	17,034 15,000
47	TACTICAL FUEL SYSTEMS	12,956	12,956
48	POWER EQUIPMENT ASSORTED Lack of requirement	28,899	26,449 -2,450
49	AMPHIBIOUS SUPPORT EQUIPMENT	15,691	15,691
50	EOD SYSTEMS Program increase - demolition equipment set	41,200	44,200 3,000
51	PHYSICAL SECURITY EQUIPMENT	53,949	53,949

P-1		Budget Request	Final Bill
52	FIELD MEDICAL EQUIPMENT Program increase - damage control resuscitation and damage control	5,457 surgery equipment	13,957 8,500
53	TRAINING DEVICES Program increase - individual combat aircrew display system	96,577	101,577 5,000
54	FAMILY OF CONSTRUCTION EQUIPMENT	29,883	29,883
55	ULTRA-LIGHT TACTICAL VEHICLE (ULTV) Hardware and support costs previously funded	17,034	13,319 -3,715
56	ITEMS LESS THAN \$5 MILLION Program increase - Ultra-Lightweight Camouflage Net System	27,691	48,691 21,000
57	SPARES AND REPAIR PARTS	35,657	35,657
999	CLASSIFIED PROGRAMS	2,799	2,799
	TOTAL. PROCUREMENT MARINE CORPS	3,979,212	3,904,532

AIRCRAFT PROCUREMENT, AIR FORCE

The agreement provides \$20,828,306,000 for Aircraft Procurement, Air Force, as follows:

P-1		Budget Request	Final Bill
1	B-21 RAIDER Classified adjustment	1,617,093	1,562,693 -54,400
2	B-21 RAIDER (AP-CY)	708,000	708,000
3	F-35 Program increase - three F-35A aircraft JPO requested functional transfer from line 4 Unit cost shortfalls Excess to need - NRE Excess to need - AME	4,877,121	5,237,889 277,353 83,415 103,740 -63,371 -40,369
4	F-35 (AP-CY) JPO requested functional transfer to line 3	402,000	318,585 -83,415
5	F-15EX Unjustified growth Air Force requested transfer to line 81 for F-15EX depot activation Early to need - depot activation Early to need - retrofit funding Air Force requested technical adjustment to line 25A for F-15EX	2,670,039	2,431,261 -38,420 -36,460 -43,450 -40,648 -79,800
6	F-15EX (AP-CY)	228,000	228,000
7	KC-46A MDAP GFE (LAIRCM) previously funded Cost overestimation - other government costs Phase program growth - commodities activation Excess to need	2,882,590	2,783,927 -4,821 -9,071 -48,110 -36,661
8	C-130J Program increase - eight additional aircraft for the Air National Guard Program increase - shortfall adjustment	34,921	1,153,521 840,000 278,600
11	MH-139A Unjustified growth	228,807	223,201 -5,606
12	COMBAT RESCUE HELICOPTER Program increase - ten aircraft Reduce carryover - obsolescence Reduce duplicative funding - sustaining engineering and program management Unjustified growth - training systems	282,533	597,408 400,000 -34,175 -32,600 -18,350
13	CIVIL AIR PATROL A/C Program increase	3,013	11,900 8,887
15	TARGET DRONES Excess to need - QF-16	42,226	34,526 -7,700

P-1		Budget Request	Final Bill
17	E-11 BACN/HAG	67,367	67,367
19	B-2A	107,980	92,400
	LO signature mods previously funded	, , , , ,	-2,565
	IFF mode 5/S installation ahead of need		-6,215
	Contract savings - display modernization		-4,700
	Early to need		-2,100
20	B-1B	12,757	9,782
	Early to need - radio crypto modernization	12,00	-2,975
21	B-52	65,815	26,936
	VLF/LF delays	33,513	-10,383
	Air Force requested transfer to RDT&E,AF line 145		-14,017
	Reduce carryover		-3,417
	Tactical data link unjustified growth		-11,062
22	LARGE AIRCRAFT INFRARED COUNTERMEASURES	21,723	21,723
24	E-11 BACN/HAG	58,923	56,923
24	Other government costs unjustified request	30,923	-1,000
	FFRDC support unjustified request		-1,000
25	F-15	34,830	28,580
	Reduce carryover - advanced display core processor		-6,250
25A	F-15EX	0	79,800
	Air Force requested technical adjustment from line 5		79,800
26	F-16	297,342	250,548
	Overestimation of SLEP induction rate		-30,393
	Reduce carryover - communication suite upgrades		-16,401
27	F-22A	794,676	359,679
	Sensor enhancement contract award delays		-434,997
28	F-35 MODIFICATIONS	451,798	329,398
	Early to need - Lot 19 modifications	, , , ,	-122,400
29	F-15 EPAW	280,658	221,339
	Depot activation ahead of need	200,000	-12,000
	Installation excess to need		-22,010
	Unjustified growth - program management		-16,100
	Cost overestimation - production kits		-9,209
31	C-5	24,377	22,187
	Lavatory installation unjustified growth		-2,190
32	C-17A	140,560	120,710
	Schedule delays - beyond line of sight		-19,850
33	C-32A	19,060	19,060
34	C-37A	13,454	13,454

P-1		Budget Request	Final Bill
35	GLIDER MODS	5,270	5,270
36	T-6	2,942	2,942
37	T-1	10,950	10,950
38	T-38 Installs ahead of need	125,340	115,340 -10,000
40	U-2 MODS	54,727	54,727
42	C-12	446	446
44	VC-25A MOD	29,707	29,707
45	C-40	8,921	8,921
46	C-130 Program increase - improved modular airborne firefighting system	71,177	91,177 20,000
47	C-130J MODS CWR ahead of need Block 8.1 other government costs unjustified growth	121,258	111,958 -4,000 -5,300
48	C-135 Ahead of need Unjustified growth	153,595	117,591 -11,744 -24,260
49	COMPASS CALL	144,686	144,686
50	COMBAT FLIGHT INSPECTION - CFIN	446	446
51	RC-135	220,138	220,138
52	E-3	1,350	1,350
53	E-4	13,055	13,055
56	H-1	816	816
57	H-60	4,207	4,207
60	HC/MC-130 MODIFICATIONS	101,055	101,055
61	OTHER AIRCRAFT Air Force requested transfer from line 66 for full combat mission trainers Air Force requested transfer from RDT&E,AF Line 95 for Sentinel	54,134	73,403 11,619 7,650
62	MQ-9 MODS	98,063	98,063
64	SENIOR LEADER C3 SYSTEM - AIRCRAFT C-37 installation cost adjustment	24,847	24,347 -500

P-1		Budget Request	Final Bill
65	CV-22 MODS	153,006	153,006
66	INITIAL SPARES/REPAIR PARTS	781,521	865,790
	Air Force requested transfer to line 61 for full combat mission trainers		-11,619
	Program increase - F-35A engine spares		132,000
	Contract delays - KC-46A spares		-36,112
67	AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT	157,664	172,347
	Program increase - future pilot training center beddown (MUNS equipment)	·	2,683
	Program increase - training and equipment for KC-135 classic associations		12,000
68	B-2A	1,838	1,838
69	B-2B	15,207	15,207
72	MC-130J	10,117	10,117
74	F-16	1,075	6,984
	Program increase - future pilot training center beddown (F-16 post production support)		5,909
75	F-22A	38,418	38,418
79	INDUSTRIAL RESPONSIVENESS	18,874	18,874
80	WAR CONSUMABLES	27,482	23,126
	ALE-70 towed decoy unit cost adjustment		-4,356
81	OTHER PRODUCTION CHARGES	1,478,044	1,264,042
	Combat training range system pods unit cost adjustment		-1,951
	Air Force requested transfer from line 5 for F-15EX depot activation		36,460
	Classified adjustment		-204,102
	Early to need - T-7 depot activation funding		-44,409
999	CLASSIFIED PROGRAMS	17,165	17,165
	TOTAL, AIRCRAFT PROCUREMENT, AIR FORCE	20,315,204	20,828,306

AIR FORCE DIVESTMENTS

It is understood that the Air Force intends to replace fighter air wings selected for legacy divestitures with a flying mission when possible. However, it is further understood that in some instances, a non-flying replacement mission has been identified to replace legacy divestitures, and that resources must be budgeted effectively to ensure the success of such follow-on missions.

Therefore, the Secretary of the Air Force is directed to submit a report to the congressional defense committees, not later than 60 days after the enactment of this Act, identifying the resources requested in the fiscal year 2025 President's budget request and the associated future years defense program that support the stand-up of new capabilities at air wings slated for divestiture of legacy platforms.

C-130J RECAPITALIZATION

The agreement includes an increase of \$840,000,000 for eight additional C-130J aircraft for the Air National Guard, to replace existing C-130H aircraft. There is concern that if air wings are directed to operate a mixed fleet of C-130Hs and C-130Js, that could increase local maintenance burdens and decrease the overall readiness of the force. Therefore, the Secretary of the Air Force is directed to, through the existing Strategic Basing Process, prioritize upgrading existing C-130H squadrons with C-130J aircraft at a one-to-one ratio.

MISSILE PROCUREMENT, AIR FORCE

The agreement provides \$4,693,647,000 for Missile Procurement, Air Force, as follows:

(INSERT PROJECT LEVEL TABLE) (Insert 82A - B

P-1		Budget Request	Final Bill
1	MISSILE REPLACEMENT EQUIPMENT-BALLISTIC (M30GLG) PTR unjustified unit cost growth	69,319	63,059 -6,260
3	GROUND BASED STRATEGIC DETERRENT Transfer to RDT&E,AF line 95	539,300	0 -539,300
4	LONG RANGE STAND-OFF WEAPON	66,816	66,816
5	REPLACEMENT EQUIPMENT & WAR CONSUMABLES DCSA production units unjustified cost growth Program increase - future pilot training center beddown (MUNS equipment Program increase - future pilot training center beddown (F-16 support equipment pilot training center beddown (F-16 support equipment)		33,844 -6,367 1,478 1,415
6	JOINT AIR-SURFACE STANDOFF MISSILE Contract modification phasing	915,996	868,596 -47,400
7	JOINT AIR-SURFACE STANDOFF MISSILE	769,672	769,672
8	JOINT STRIKE MISSILE F-35 integration ahead of need	161,011	159,511 -1,500
9	LRASM0	87,796	87,796
10	LRASMO (AP-CY)	99,871	99,871
11	SIDEWINDER (AIM-9X)	95,643	95,643
12	AMRAAM	489,049	489,049
13	AMRAAM (AP-CY) Unjustified request	212,410	53,103 -159,307
14	PREDATOR HELLFIRE MISSILE	1,049	1,049
15	SMALL DIAMETER BOMB	48,734	48,734
16	SMALL DIAMETER BOMB II	291,553	291,553
17	STAND-IN ATTACK WEAPON (SIAW)	41,947	41,947
18	INDUSTRIAL PREPAREDNESS	793	793
19	ICBM FUZE MOD	115,745	115,745
20	ICBM FUZE MOD (AP-CY)	43,044	43,044
21	MINUTEMAN III MODIFICATIONS Ahead of need	48,639	43,239 -5,400

P-1		Budget Request	Final Bill
22	AIR LAUNCH CRUISE MISSILE	41,494	38,930
	CATIKS unjustified cost growth		-968
	GMFC equipment unjustified cost growth		-1,596
23	MISSILE SPARES / REPAIR PARTS (INITIAL)	6,840	6,840
24	MISSILE SPARES / REPAIR PARTS (REPLEN)	75,191	75,191
29	SPECIAL UPDATE PROGRAMS	419,498	347,904
	Classified adjustment		-71,594
999	CLASSIFIED PROGRAMS	851,718	851,718
	TOTAL, MISSILE PROCUREMENT, AIR FORCE	5,530,446	4,693,647



PROCUREMENT OF AMMUNITION, AIR FORCE

The agreement provides \$589,943,000 for Procurement of Ammunition, Air Force, as follows:

(INSERT PROJECT LEVEL TABLE) & (Insert 83A

1 ROCKETS 18,483 18,483 2 CARTRIDGES 101,104 94,773 Unjustified increase - small cal/ground munitions 2,863 Excess to need - Ctg, 25mm, TP (PGU-23/U) 3,468 4 GENERAL PURPOSE BOMBS 142,118 107,154 Previously funded Items -14,855 Excess to need - MK84 fin assembly 500 Excess to need - BDU-50/B -18,999 Excess to need - BDU-33 -750 5 MASSIVE ORDNANCE PENETRATOR 14,074 1,250 Excess to need - Massive Ordnance Penetrator 14,074 1,2824 6 JOINT DIRECT ATTACK MUNITION 132,364 100,672 PSC other government costs unjustified growth -3,877 Excess to need - JDAM talk kit -27,815 7 B-61 68 0 Program adjustment -68 0 8 B-61 TRAINER 10,100 10,100 9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 I				
2 CARTRIDGES	P-1		Budget Request	Final Bill
Unjustified increase - small cal/ground munitions Excess to need - Ctg, 25mm, TP (PGU-23/U) 4 GENERAL PURPOSE BOMBS Previously funded items Excess to need - MK84 fin assembly Excess to need - BDU-50/B Excess to need - BDU-50/B Excess to need - BDU-50/B Excess to need - BDU-33 5 MASSIVE ORDNANCE PENETRATOR Excess to need - Massive Ordnance Penetrator Excess to need - Jayan tail kit 6 JOINT DIRECT ATTACK MUNITION PSC other government costs unjustified growth Excess to need - JDAM tail kit 7 B-61 Program adjustment 8 B-61 TRAINER 10,100 10,100 10,100 10,100 10 CAD/PAD 51,487 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 EXPENDABLE COUNTERMEASURES 79,786 79,786 FUZES Historic underexecution 2,367 Excess to need - SP,786 Expendable COUNTERMEASURES 79,786 179,786 179,786 179,786	1	ROCKETS	18,483	18,483
Excess to need - Ctg, 25mm, TP (PGU-23/U) 4 GENERAL PURPOSE BOMBS Previously funded items Excess to need - MK84 fin assembly Excess to need - BDU-50/B Excess to need - BDU-50/B Excess to need - BDU-33 5 MASSIVE ORDNANCE PENETRATOR Excess to need - Massive Ordnance Penetrator 6 JOINT DIRECT ATTACK MUNITION PSC other government costs unjustified growth Excess to need - JDAM tail kit 7 B-61 Program adjustment 8 B-61 TRAINER 10,100 10,100 10,100 9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 EXPENDABLE COUNTERMEASURES 79,786 79,786 FUZES Historic underexecution 2,3,468 10,107,15,457 10,485 10,407 10,407 11 SPARES 10,507 11 SPARES 10,507 11 SPARES 10,507 11 SPARES AND REPAIR PARTS 10,100	2	CARTRIDGES	101,104	94,773
### GENERAL PURPOSE BOMBS Previously funded items Excess to need - MK84 fin assembly Excess to need - BDU-50/B Excess to need - BDU-50/B Excess to need - BDU-33 14,074		Unjustified increase - small cal/ground munitions		-2,863
Previously funded items -14,855 Excess to need - MK84 fin assembly -500 Excess to need - BDU-50/B -18,859 Excess to need - BDU-33 -750 5 MASSIVE ORDNANCE PENETRATOR 14,074 1,250 Excess to need - Massive Ordnance Penetrator -12,824 6 JOINT DIRECT ATTACK MUNITION 132,364 100,672 PSC other government costs unjustified growth -3,877 Excess to need - JDAM tail kit 68 0 Program adjustment 68 0 Program adjustment 10,100 10,100 9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES Historic underexecution 29,306 29,306		Excess to need - Ctg, 25mm, TP (PGU-23/U)		-3,468
Excess to need - MK84 fin assembly	4	GENERAL PURPOSE BOMBS	142,118	107,154
Excess to need - BDU-50/B -18,859 Excess to need - BDU-33 -750		Previously funded items		-14,855
Excess to need - BDU-33 -750 MASSIVE ORDNANCE PENETRATOR Excess to need - Massive Ordnance Penetrator -12,824 JOINT DIRECT ATTACK MUNITION PSC other government costs unjustified growth Excess to need - JDAM tail kit -27,815 B-61 Program adjustment -68 B-61 TRAINER 10,100 10,100 CAD/PAD 51,487 51,487 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 SPARES AND REPAIR PARTS 585 585 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 EXPENDABLE COUNTERMEASURES 79,786 79,786 FUZES Historic underexecution 29,306 29,306		Excess to need - MK84 fin assembly		-500
5 MASSIVE ORDNANCE PENETRATOR Excess to need - Massive Ordnance Penetrator 14,074 1,250 6 JOINT DIRECT ATTACK MUNITION PSC other government costs unjustified growth Excess to need - JDAM tail kit 132,364 100,672 7 B-61 Program adjustment 68 0 8 B-61 TRAINER 10,100 10,100 9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES Historic underexecution 109,562 82,226 17 SMALL ARMS 29,306 29,306		Excess to need - BDU-50/B		-18,859
Excess to need - Massive Ordnance Penetrator -12,824 6 JOINT DIRECT ATTACK MUNITION 132,364 100,672 PSC other government costs unjustified growth Excess to need - JDAM tail kit -27,815 7 B-61 68 0 0 Program adjustment 10,100 10,100 9 CAD/PAD 151,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES 109,562 82,226 Historic underexecution 29,306 29,306		Excess to need - BDU-33		-750
Excess to need - Massive Ordnance Penetrator -12,824 6	5	MASSIVE ORDNANCE PENETRATOR	14,074	1,250
PSC other government costs unjustified growth Excess to need - JDAM tail kit -27,815 7		Excess to need - Massive Ordnance Penetrator		-12,824
PSC other government costs unjustified growth Excess to need - JDAM tail kit 7 B-61 Program adjustment 8 B-61 TRAINER 10,100 9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 13 FIRST DESTINATION TRANSPORTATION 14 ITEMS LESS THAN \$5,000,000 15 EXPENDABLE COUNTERMEASURES 16 FUZES Historic underexecution 17 SMALL ARMS 18 B-61 FV 27,815 68 0 0 68	6	JOINT DIRECT ATTACK MUNITION	132,364	100,672
7 B-61 Program adjustment 68 0 Program adjustment 0 Program adjustment 0 Program adjustment 10,100 10,707 6,707 6,707 6,707 6,707 6,707 11 11 SPARES AND REPAIR PARTS 585		PSC other government costs unjustified growth		-3,877
Program adjustment -68 8 B-61 TRAINER 10,100 10,100 9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES Historic underexecution 109,562 82,226 -27,336 17 SMALL ARMS 29,306 29,306		Excess to need - JDAM tail kit		-27,815
8 B-61 TRAINER 10,100 10,100 9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES	7	B-61	68	0
9 CAD/PAD 51,487 51,487 10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES Historic underexecution 109,562 82,226 6-27,336 17 SMALL ARMS 29,306 29,306		Program adjustment		-68
10 EXPLOSIVE ORDNANCE DISPOSAL 6,707 6,707 11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES	8	B-61 TRAINER	10,100	10,100
11 SPARES AND REPAIR PARTS 585 585 13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES	9	CAD/PAD	51,487	51,487
13 FIRST DESTINATION TRANSPORTATION 2,299 2,299 14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES Historic underexecution 109,562 82,226 -27,336 17 SMALL ARMS 29,306 29,306	10	EXPLOSIVE ORDNANCE DISPOSAL	6,707	6,707
14 ITEMS LESS THAN \$5,000,000 5,115 5,115 15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES	11	SPARES AND REPAIR PARTS	585	585
15 EXPENDABLE COUNTERMEASURES 79,786 79,786 16 FUZES 109,562 82,226 Historic underexecution -27,336 17 SMALL ARMS 29,306 29,306	13	FIRST DESTINATION TRANSPORTATION	2,299	2,299
16 FUZES 109,562 82,226 Historic underexecution -27,336 17 SMALL ARMS 29,306 29,306	14	ITEMS LESS THAN \$5,000,000	5,115	5,115
Historic underexecution -27,336 17 SMALL ARMS 29,306 29,306	15	EXPENDABLE COUNTERMEASURES	79,786	79,786
Historic underexecution -27,336 17 SMALL ARMS 29,306 29,306	16	FUZES	109.562	82.226
			,	
TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE 703,158 589,943	17	SMALL ARMS	29,306	29,306
		TOTAL, PROCUREMENT OF AMMUNITION, AIR FORCE	703,158	589,943

OTHER PROCUREMENT, AIR FORCE

The agreement provides \$31,327,131,000 for Other Procurement, Air Force, as follows:

P-1		Budget Request	Final Bill
1	PASSENGER CARRYING VEHICLES	6,123	6,123
2	MEDIUM TACTICAL VEHICLE	3,961	3,961
3	CAP VEHICLES	1,027	2,000
	Program increase	-,	973
4	CARGO AND UTILITY VEHICLES	45,036	47,910
	Air Force requested transfer from line 11		328
	Air Force requested transfer from OM,AF line 11R		1,974
	Program increase - future pilot training center beddown (BOST vehicles)		269
	Program increase - future pilot training center beddown (F-35 support)		184
	Program increase - future pilot training center beddown (F-16 support)		119
5	JOINT LIGHT TACTICAL VEHICLE	57,780	42,615
-	Unjustified unit cost growth		-15,165
6	SECURITY AND TACTICAL VEHICLES	390	390
7	SPECIAL PURPOSE VEHICLES	79,023	82,560
	Truck tank fuels 1200 gal unjustified unit cost growth		-7,628
	Air Force requested transfer from line 11		340
	Air Force requested transfer from OM,AF line 11R		3,440
	Program increase - future pilot training center beddown (BOST vehicles)		1,769
	Program increase - future pilot training center beddown (F-35 support)		221
	Program increase - future pilot training center beddown (F-16 support)		395
	Program increase - R-11 refuelers for arctic operations		5,000
8	FIRE FIGHTING/CRASH RESCUE VEHICLES	70,252	71,412
	Program increase - future pilot training center beddown (BOST vehicles)		1,160
9	MATERIALS HANDLING VEHICLES	73,805	76,000
	Air Force requested transfer from line 11		285
	Air Force requested transfer from OM,AF line 11R		1,805
	Program increase - future pilot training center beddown (BOST vehicles)		105
10	RUNWAY SNOW REMOV AND CLEANING EQU	22,030	34,375
	Program increase - future pilot training center beddown (BOST vehicles)		345
	Program increase - snow removal equipment for arctic operations		12,000
11	BASE MAINTENANCE SUPPORT VEHICLES	223,354	245,634
	Air Force requested transfer to line 4		-328
	Air Force requested transfer to line 7		-340
	Air Force requested transfer to line 9		-285
	Air Force requested transfer from OM,AF line 11R		18,233
	Program increase - base maintenance vehicles for arctic operations		5,000
13	COMSEC EQUIPMENT	98,600	86,836
	KIV-78 ahead of need		-11,764

P-1		Budget Request	Final Bill
15	INTERNATIONAL INTEL TECH & ARCHITECTURES	5,393	5,393
16	INTELLIGENCE TRAINING EQUIPMENT	5,012	5,012
17	INTELLIGENCE COMM EQUIPMENT	40,042	40,042
18	AIR TRAFFIC CONTROL & LANDING SYS Manportable TACAN readiness support costs unjustified	67,581	65,578 -2,003
19	NATIONAL AIRSPACE SYSTEM	3,841	3,841
20	BATTLE CONTROL SYSTEM - FIXED	1,867	1,867
22	3D EXPEDITIONARY LONG-RANGE RADAR Unjustified growth Program increase - additional three-dimensional expeditionary long	83,735	178,723 -5,012
	range radars and spares		100,000
23	WEATHER OBSERVATION FORECAST Numerical weather modeling previously funded	28,530	27,530 -1,000
24	STRATEGIC COMMAND AND CONTROL	73,593	73,593
25	CHEYENNE MOUNTAIN COMPLEX	8,221	8,221
26	MISSION PLANNING SYSTEMS Unjustified cost growth	17,078	14,254 -2,824
29	STRATEGIC MISSION PLANNING & EXECUTION SYSTEM	3,861	3,861
30	GENERAL INFORMATION TECHNOLOGY Program increase - four remote simulator instructor stations Full combat mission training unjustified request Air Force requested transfer from OM,AF line 12A for mission partner environment nodes Tactical Data Networks Enterprise - high capacity backbone contract termination	206,142	175,093 3,000 -28,800 30,951 -36,200
31	AF GLOBAL COMMAND & CONTROL SYS	2,582	2,582
32	BATTLEFIELD AIRBORNE CONTROL NODE (BACN) Program adjustment	30	0 -30
33	MOBILITY COMMAND AND CONTROL	3,768	3,768
34	AIR FORCE PHYSICAL SECURITY SYSTEM Program delays OSD requested transfer from P,DW line 2 Program increase - integrated base defense security system community cybersecurity	208,704	256,311 -2,893 46,500 4,000
35	COMBAT TRAINING RANGES P6 combat training system ahead of need	346,340	332,543 -13,797



P-1		Budget Request	Final Bill
36	MINIMUM ESSENTIAL EMERGENCY COMM GASNTi2 FFRDC support unjustified GASNTi2 HEMP contract award delay GASNTi2 non-HEMP contract award delay	84,102	74,909 -2,470 -5,546 -2,714
	Program increase - future pilot training center beddown (MUNS equipment)		1,537
37	WIDE AREA SURVEILLANCE (WAS)	11,594	11,594
38	C3 COUNTERMEASURES	148,818	148,818
44	AIR & SPACE OPERATIONS CENTER (AOC)	5,032	5,032
46	BASE INFORMATION TRANSPT INFRAST (BITI) WIRED Air Force requested transfer from OM,AF line 11Z	108,532	322,704 214,172
47	AFNET CSCS PMA previously funded	154,911	152,618 -2,293
48	JOINT COMMUNICATIONS SUPPORT ELEMENT	5,381	5,381
49	USCENTCOM Unjustified growth	18,025	11,896 -6,129
50	USSTRATCOM	4,436	4,436
51	USSPACECOM Ahead of need	27,073	20,773 -6,300
52	TACTICAL C-E EQUIPMENT Early to need - operational control system (BAO Kit) Unjustified growth - mobile communications system	226,819	220,348 -55 -6,416
53	RADIO EQUIPMENT Program increase - future pilot training center beddown (ELMR)	30,407	31,607 1,200
54	BASE COMM INFRASTRUCTURE Unjustified growth	113,563	103,945 -9,618
55	COMM ELECT MODS Program increase - ARCHER North Warning System	98,224	115,224 17,000
56	PERSONAL SAFETY AND RESCUE EQUIPMENT Program increase - in-flight pilot physiological monitoring	60,473	61,473 1,000
57	POWER CONDITIONING EQUIPMENT	9,235	9,235
58	MECHANIZED MATERIAL HANDLING EQUIPMENT Storage aid system unjustified unit cost growth Material storage and distribution system unjustified unit cost growth	15,662	12,181 -1,521 -1,960



P-1		Budget Request	Final Bill
59	BASE PROCURED EQUIPMENT	77,875	60,526
	Program increase - critical arctic munitions storage		4,300
	Projects funded out of cycle		-26,916
	Unjustified growth		-10,733
	Program increase - civil engineering survey equipment		10,000
	Program increase - disaster relief mobile kitchen trailer		5,000
	Program increase - training and equipment for KC-135 classic association		1,000
60	ENGINEERING AND EOD EQUIPMENT	280,734	293,968
	Air Force requested transfer from OM,AF line 12Q for RDS and RIIDS	,	2,284
	Air Force requested transfer from OM,AF line 11R		5,950
	Program increase - EOD directed energy systems (RADBO)		5,000
61	MOBILITY EQUIPMENT	207,071	161,338
٠.	Air Force requested transfer from OM,AF line 11R		25,200
	Lack of justification		-70,933
62	FUELS SUPPORT EQUIPMENT	218,790	144,271
	Cost growth		-11,257
	Schedule discrepancies		-63,262
63	BASE MAINTENANCE AND SUPPORT EQUIPMENT	51,914	58,597
	Program increase - future pilot training center beddown (F-16		
	support equipment)		1,683
	Program increase - long-range radar site battery energy storage system		5,000
65	DARP RC135	28,882	28,882
66	DCGS-AF	129,655	129,655
70	SPECIAL UPDATE PROGRAM	1,042,833	1,042,833
999	CLASSIFIED PROGRAMS	25,456,490	26,183,199
	Classified adjustment		726,709
71	SPARES AND REPAIR PARTS (CYBER)	1,032	1,032
72	SPARES AND REPAIR PARTS	12,628	12,628
	TOTAL, OTHER PROCUREMENT, AIR FORCE	30,417,892	31,327,131

PROCUREMENT, SPACE FORCE

The agreement provides \$4,064,948,000 for Procurement, Space Force, as follows:

(INSERT PROJECT LEVEL TABLE) (Insert 85A-B

P-1		Budget Request	Final Bill
1	AF SATELLITE COMM SYSTEM	64,345	64,345
3	COUNTERSPACE SYSTEMS Underexecution	52,665	50,165 -2,500
4	FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS	25,057	25,057
5	FABT FORCE ELEMENT TERMINAL Management services excess to need	121,634	113,084 -8,550
7	GENERAL INFORMATION TECH - SPACE	3,451	3,451
8	GPSIII FOLLOW ON Underexecution Unjustified request	119,700	59,148 -11,252 -49,300
9	GPS III SPACE SEGMENT Unjustified growth - SV03-10 production	121,770	103,670 -18,100
10	GLOBAL POSTIONING (SPACE)	893	893
11	HERITAGE TRANSITION Contract award delay	6,110	0 -6,110
12	JOINT TACTICAL GROUND STATIONS	580	580
13	SPACEBORNE EQUIP (COMSEC) Excess to need	83,168	50,766 -32,402
14	MILSATCOM	44,672	44,672
15	SBIR HIGH (SPACE) Underexecution	39,438	34,589 -4,849
16	SPECIAL SPACE ACTIVITIES Classified adjustment	840,913	379,578 -461,335
17	MOBILE USER OBJECTIVE SYSTEM	101,147	101,147
18	NATIONAL SECURITY SPACE LAUNCH Cost savings	2,142,846	2,097,246 -45,600
20	PTES HUB Underexecution	56,482	50,225 -6,257
21	ROCKET SYSTEMS LAUNCH PROGRAM Historical underexecution	74,848	71,757 -3,091

P-1	Budget Request	Final Bill
22 SPACE DEVELOPMENT AGENCY LAUNCH	529,468	529,468
23 SPACE MODS	166,596	166,596
24 SPACELIFT RANGE SYSTEM SPACE	114,505	114,505
25 SPARES AND REPAIR PARTS	906	906
26 POWER CONDITIONING EQUIPMENT	3,100	3,100
TOTAL, PROCUREMENT, SPACE FORCE	4,714,294	4,064,948

NATIONAL SECURITY SPACE LAUNCH

The agreement directs the Secretary of Defense and the Director of National Intelligence to utilize the Space Force launch enterprise phase 2 contract or phase 3 contract upon award for all National Security Space Launch class missions unless they certify to the congressional defense and intelligence committees that commercial launch or delivery on orbit procurement for a designated mission is in the national security interest of the United States government and outline the rationale for such a determination.

PROCUREMENT, DEFENSE-WIDE

The agreement provides \$6,392,675,000 for Procurement, Defense-Wide, as follows:

(INSERT PROJECT LEVEL TABLE) P(Inser+87A-D

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

1 MAJOR EQUIPMENT, DPAA 516 2 MAJOR EQUIPMENT, OSD Program increase - APFIT Program increase - Nearing protection Program decrease - Mentor Protégé Program underexecution Air Force physical security systems - OSD requested transfer to OP,AF line 34 Counter small unmanned earial system - OSD requested transfer to OP,A line 76 Warrior systems < SSM - OSD requested transfer to P,DW line 75 11 INFORMATION SYSTEMS SECURITY Thunderdome ahead of need 12,275 12 TELEPORT PROGRAM SOMSAT insufficient justification 42,399 14 ITEMS LESS THAN \$5 MILLION 47,538 15 DEFENSE INFORMATION SYSTEM NETWORK Program increase - unified video dissemination system for INDOPACOM 39,472 16 WHITE HOUSE COMMUNICATION AGENCY Ahead of need 118,523 17 SENIOR LEADERSHIP ENTERPRISE 94,591 18 JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER Program growth insufficient justification 107,637 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 33,047 28 MAJOR EQUIPMENT Agency migrations late contract awards 21,355 30 MAJOR EQUIPMENT 2,135 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108 36 SM-3 IIAS	Final Bill	Budget Request		P-1
Program increase - APFIT Program increase - hearing protection Program decrease - Mentor Protégé Program underexecution Air Force physical security systems - OSD requested transfer to OP,AF line 34 Counter small unmanned aerial system - OSD requested transfer to OP,AF line 76 Warrior systems <\$5M - OSD requested transfer to OP,AF line 76 Warrior systems <\$5M - OSD requested transfer to P,DW line 75 11 INFORMATION SYSTEMS SECURITY Thunderdome ahead of need 12 TELEPORT PROGRAM SOMSAT insufficient justification 14 ITEMS LESS THAN \$5 MILLION 15 DEFENSE INFORMATION SYSTEM NETWORK Program increase - unified video dissemination system for INDOPACOM 16 WHITE HOUSE COMMUNICATION AGENCY Ahead of need 17 SENIOR LEADERSHIP ENTERPRISE 94,591 18 JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	516	516	MAJOR EQUIPMENT, DPAA	1
Thunderdome ahead of need 12 TELEPORT PROGRAM SOMSAT insufficient justification 14 ITEMS LESS THAN \$5 MILLION 47,538 15 DEFENSE INFORMATION SYSTEM NETWORK Program increase - unified video dissemination system for INDOPACOM 16 WHITE HOUSE COMMUNICATION AGENCY Ahead of need 17 SENIOR LEADERSHIP ENTERPRISE 94,591 18 JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) 33,047 Agency migrations late contract awards 28 MAJOR EQUIPMENT 2,135 30 MAJOR EQUIPMENT 2,135 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	408,006 200,000 30,000 -8,000 -46,500 -21,250 -32,250		Program increase - APFIT Program increase - hearing protection Program decrease - Mentor Protégé Program underexecution Air Force physical security systems - OSD requested transfer to OP,AF line 3 Counter small unmanned aerial system - OSD requested transfer to OP,A line	2
SOMSAT insufficient justification 14 ITEMS LESS THAN \$5 MILLION 47,538 15 DEFENSE INFORMATION SYSTEM NETWORK Program increase - unified video dissemination system for INDOPACOM 16 WHITE HOUSE COMMUNICATION AGENCY Ahead of need 17 SENIOR LEADERSHIP ENTERPRISE 94,591 18 JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30 MAJOR EQUIPMENT 11 THAAD 216,782 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS	10,012 -2,263	12,275		11
15 DEFENSE INFORMATION SYSTEM NETWORK Program increase - unified video dissemination system for INDOPACOM 16 WHITE HOUSE COMMUNICATION AGENCY Ahead of need 17 SENIOR LEADERSHIP ENTERPRISE 94,591 18 JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30 MAJOR EQUIPMENT THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	34,399 -8,000	42,399		12
Program increase - unified video dissemination system for INDOPACOM 16 WHITE HOUSE COMMUNICATION AGENCY Ahead of need 17 SENIOR LEADERSHIP ENTERPRISE 18 JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30 MAJOR EQUIPMENT THAAD 216,782 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	47,538	47,538	ITEMS LESS THAN \$5 MILLION	14
Ahead of need 17 SENIOR LEADERSHIP ENTERPRISE 94,591 18 JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER 107,637 Program growth insufficient justification 33,047 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) 33,047 Agency migrations late contract awards 30,355 PCMV lack of acquisition plan 2,135 30 MAJOR EQUIPMENT 2,135 30 MAJOR EQUIPMENT, TJS 3,747 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	44,172 4,700	39,472		15
JOINT REGIONAL SECURITY STACKS (JRSS) 22,714 19 JOINT SERVICE PROVIDER Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30,355 30 MAJOR EQUIPMENT, TJS 31,747 31 THAAD 31 THAAD 3216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	111,123 -7,400	118,523		16
19 JOINT SERVICE PROVIDER Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30 MAJOR EQUIPMENT 31 THAAD 31 THAAD 32 AEGIS BMD 374,756 38 BMDS AN/TPY-2 RADARS 30 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637 107,637	94,591	94,591	SENIOR LEADERSHIP ENTERPRISE	17
Program growth insufficient justification 20 FOURTH ESTATE NETWORK OPTIMIZATION (4ENO) Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30,355 30 MAJOR EQUIPMENT 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	22,714	22,714	JOINT REGIONAL SECURITY STACKS (JRSS)	18
Agency migrations late contract awards 28 MAJOR EQUIPMENT PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30 MAJOR EQUIPMENT, TJS 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 20,108	102,637 -5,000	107,637		19
PCMV lack of acquisition plan 29 MAJOR EQUIPMENT 30 MAJOR EQUIPMENT, TJS 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	29,677 -3,370	33,047		20
30 MAJOR EQUIPMENT, TJS 3,747 31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	30,134 -221	30,355		28
31 THAAD 216,782 33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	2,135	2,135	MAJOR EQUIPMENT	29
33 AEGIS BMD 374,756 35 BMDS AN/TPY-2 RADARS 29,108	3,747	3,747	MAJOR EQUIPMENT, TJS	30
35 BMDS AN/TPY-2 RADARS 29,108	216,782	216,782	THAAD	31
	374,756	374,756	AEGIS BMD	33
36 SM-3 IIAS 432,824	29,108	29,108	BMDS AN/TPY-2 RADARS	35
•	432,824	432,824	SM-3 IIAS	36
37 ARROW 3 UPPER TIER SYSTEMS 80,000	80,000	80,000	ARROW 3 UPPER TIER SYSTEMS	37
38 SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD) 40,000	40,000	40,000	SHORT RANGE BALLISTIC MISSILE DEFENSE (SRBMD)	38

P-1		Budget Request	Final Bill
39	DEFENSE OF GUAM PROCUREMENT	169,627	169,627
40	AEGIS ASHORE PHASE III	2,390	2,390
41	IRON DOME	80,000	80,000
42	AEGIS BMD HARDWARE AND SOFTWARE	27,825	27,825
43	PERSONNEL ADMINISTRATION	3,704	3,704
46	VEHICLES Early to need	366	356 -10
47	OTHER MAJOR EQUIPMENT	12,787	12,787
48	DTRA CYBER ACTIVITIES Ahead of need	21,413	19,964 -1,449
49	AUTOMATION/EDUCATIONAL SUPPORT & LOGISTICS	1,358	1,358
50	MAJOR EQUIPMENT	13,012	13,012
51	CYBERSPACE OPERATIONS Unjustified growth - DMSS Unjustified growth - joint common access platform Unjustified growth - training	129,082	93,980 -4,445 -22,159 -8,498
53	ARMED OVERWATCH/TARGETING Support equipment previously funded	266,846	264,688 -2,158
54	MANNED ISR Low cost modifications carryover	7,000	6,000 -1,000
55	MC-12	600	600
57	ROTARY WING UPGRADES AND SUSTAINMENT Program increase - degraded visual environment pilotage system ASE B-kits early to need	261,012	270,366 15,000 -5,646
58	UNMANNED ISR Program increase - SOCOM ISR	26,997	29,497 2,500
59	NON-STANDARD AVIATION Unjustified request - theater basing initiatives	25,782	20,782 -5,000
60	U-28 Low cost modifications unjustified growth	7,198	5,915 -1,283
61	MH-47 CHINOOK Program increase - SOCOM operational loss	149,883	224,283 74,400
62	CV-22 MODIFICATION	75,981	75,981
63	MQ-9 UNMANNED AERIAL VEHICLE	17,684	17,684
64	PRECISION STRIKE PACKAGE B-kits unit cost growth	108,497	104,380 -4,117

P-1		Budget Request	Final Bill
65	AC/MC-130J Program increase - MC-130J airborne mission networking upgrades RFCM A-kit unit cost growth RFCM interim contractor support previously funded	319,754	312,921 10,000 -833 -1,000
	RFCM tech refresh early to need		-15,000
66	C-130 MODIFICATIONS	18,796	18,796
67	UNDERWATER SYSTEMS Program increase - deep submergence collective propulsion	66,111	73,111 7,000
68	ORDNANCE ITEMS <\$5M GOPSS man-packable PSS munitions unit cost growth	147,831	147,033 -798
69	INTELLIGENCE SYSTEMS Program increase - family of unmanned ground systems	203,400	208,400 5,000
70	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	5,718	5,718
71	OTHER ITEMS <\$5M BDP light early to need Integration excess growth	108,816	106,131 -1,685 -1,000
72	COMBATANT CRAFT SYSTEMS	55,064	55,064
73	SPECIAL PROGRAMS	20,412	20,412
74	TACTICAL VEHICLES Program increase - GMV 1.1	56,561	66,561 10,000
75	WARRIOR SYSTEMS <\$5M Program increase - CUAS group 3 defeat acceleration Program increase - enhanced night vision devices Program increase - resilient waveform communications Program increase - OSD requested transfer from line 2	329,837	408,700 40,613 1,000 5,000 32,250
76	COMBAT MISSION REQUIREMENTS	4,987	4,987
77	OPERATIONAL ENHANCEMENTS INTELLIGENCE	23,639	23,639
78	OPERATIONAL ENHANCEMENTS	322,341	322,341
79	CHEMICAL BIOLOGICAL SITUATIONAL AWARENESS Aerosol and vapor chemical agent detector early to need Joint bio tactical detection system early to need Joint chemical agent detector solid liquid adaptor unit cost savings	159,884	149,631 -2,458 -7,025 -770
80	CB PROTECTION & HAZARD MITIGATION Program increase - protective clothing Program increase - smallpox antiviral treatment Advanced anticonvulsant system support cost excess growth Special purpose unit rapid capability development and deployment early to ne Uniform integrated protective ensemble family of systems air excess engineering support growth	231,826 eed	239,255 2,000 10,000 -432 -3,756

P-1	Budget Request	Final Bill
999 CLASSIFIED PROGRAMS Classified adjustment	658,529	669,925 11,396
TOTAL, PROCUREMENT, DEFENSE-WIDE	6,156,975	6,392,675

DEFENSE PRODUCTION ACT PURCHASES

The agreement provides \$587,905,000 for Defense Production Act Purchases, as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

	Budget Request	Final Bill
DEFENSE PRODUCTION ACT PURCHASES	968,605	578,905
Program increase - aluminum-scandium master alloy production		10,000
Program increase - domestic aluminum casting		23,000
Program increase - heavy forging capacity improvement program		8,000
Program increase - manufacturing of hypersonic components Program increase - new domestic source of solid rocket motor production		5,000
and modernization at scale		14,300
Program increase - secure composite shipping containers		9,000
Execution risk		-450,000
TOTAL, DEFENSE PRODUCTION ACT PURCHASES	968,605	587,905

DEFENSE PRODUCTION ACT EXECUTABILITY AND OVERSIGHT

The agreement notes that unobligated balances for the Defense Production Act have significantly increased in the past four fiscal years, which results in delayed industrial capacity expansion and uncertainty to the defense industrial base regarding the Department's plans. It is expected that funding appropriated to the Defense Production Act Purchases account continue to conform to the purposes communicated to the House and Senate Defense Appropriations Subcommittees during review of the fiscal year 2024 President's budget request, and that any changes to the Department's plans be communicated to the same Subcommittees not less than 30 days prior to execution of funds.

PRINTED CIRCUIT BOARDS

It is noted that printed circuit boards are key components of advanced defense technologies and that a strong domestic defense industrial base includes the ability to fabricate printed circuit boards. It is understood that the Department of Defense intends to use the Defense Production Act Purchases account to address domestic industrial base shortfalls for printed circuit boards in fiscal year 2024. The Secretary of Defense is encouraged to prioritize Defense Production Act investments in support of domestic printed circuit board fabrication.

NATIONAL GUARD AND RESERVE EQUIPMENT

The agreement provides \$1,000,000,000 for National Guard and Reserve Equipment, as follows:

EXPLANATION OF PROJECT LEVEL ADJSTMENTS (In thousands of dollars)

	Budget Request	Final Bill
ARMY NATIONAL GUARD	0	310,000
Program increase - miscellaneous equipment		310,000
AIR NATIONAL GUARD	0	300,000
Program increase - miscellaneous equipment		300,000
ARMY RESERVE	0	155,000
Program increase - miscellaneous equipment		155,000
NAVY RESERVE	0	57,000
Program increase - miscellaneous equipment		57,000
MARINE CORPS RESERVE	0	23,000
Program increase - miscellaneous equipment		23,000
AIR FORCE RESERVE	0	155,000
Program increase - miscellaneous equipment		155,000
TOTAL, NATIONAL GUARD AND RESERVE EQUIPMENT	0	1,000,000

NATIONAL GUARD AND RESERVE EQUIPMENT

The agreement includes an appropriation of \$1,000,000,000 for the National Guard and Reserve Equipment Account. Of that amount, \$310,000,000 is for the Army National Guard; \$300,000,000 is for the Air National Guard; \$155,000,000 is for the Army Reserve; \$57,000,000 is for the Navy Reserve; \$23,000,000 is for the Marine Corps Reserve; and \$155,000,000 is for the Air Force Reserve to meet urgent equipment needs in the coming fiscal year. The agreement includes direction for the component commanders of the Army Reserve, Navy Reserve, Marine Forces Reserve, Air Force Reserve, Army National Guard, and Air National Guard to submit to the congressional defense committees a detailed assessment of their component's modernization priorities, not later than 30 days after the enactment of this Act.

The Secretary of Defense is directed to ensure that the National Guard and Reserve Equipment Account is executed by the Chiefs of the National Guard and reserve components with priority consideration given to the following items: acoustic hailing devices; aircraft survivability equipment and weapons training aids; aircraft wash systems; aviation fleet management dashboard software; crashworthy, ballistically tolerant auxiliary fuel systems for UH–60 helicopters; degraded visual environment systems; F-16 simulators; high mobility multi-purpose wheeled vehicle modernization; KC–135 aircraft emergency response refuel equipment kits; KC–135 aircrew ground cooling units; land surveying systems; laser chemical threat detection systems; lightweight, rapidly deployable, computer-based artillery call for fire training and simulation; litter stabilization systems; M917A3 heavy dump trucks; modern acoustic and thermal aviation blankets; modular small arms ranges and small arms training simulators and tools; secure enterprise, emergency, and social communication; software defined radios; UH–72A/B mission equipment modernization; upgraded commercial-off-the-shelf ground mapping for C–130 aircraft; and vehicle-mounted, man-portable radiological nuclear detection systems.

AIRCRAFT TRAINING SIMULATORS

Not later than 30 days after the submission of the fiscal year 2025 President's budget request, the Chief of Staff of the Air Force, in coordination with the Chief of the National Guard Bureau, shall provide documentation to the congressional defense committees, illustrating how they have programmed appropriately for the sufficient resourcing of aircraft training simulators, to include simulators for F-16s, for the Air National Guard in accordance with current Department of the Air Force policy regarding concurrent and proportional modernization to ensure total force readiness.

TITLE IV - RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The agreement provides \$148,320,479,000 in Title IV, Research, Development, Test and Evaluation, as follows:

(INSERT RDTE SUMMARY TABLE) (Inser+ 91A

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	FINAL BILL
RECAPITULATION		
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY	15,775,381	17,115,037
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY	26,922,225	27,964,807
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FOR	RCE. 46,565,356	47,340,416
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE	19,199,340	18,669,844
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE	36,085,834	36,892,886
OPERATIONAL TEST AND EVALUATION, DEFENSE	331,489	337,489
GRAND TOTAL. RESEARCH. DEVELOPMENT. TEST AND	===========	*===*===
EVALUATION	144,879,625	148,320,479

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Secretary of Defense is directed to continue to follow the reprogramming guidance as specified in the report accompanying the House version of the Department of Defense Appropriations bill for Fiscal Year 2008 (House Report 110-279). Specifically, the dollar threshold for reprogramming funds shall be \$15,000,000 for procurement and research, development, test and evaluation.

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

FUNDING INCREASES

The funding increases outlined in these tables shall be provided only for the specific purposes indicated in the tables. Additional guidance is provided in the overview of this explanatory statement.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION SPECIAL INTEREST ITEMS

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

RAPID ACQUISITION AUTHORITY

Section 229 of the National Defense Authorization Act for Fiscal Year 2024 (Public Law 118-31) provided new rapid acquisition authorities to the Secretaries of the military departments. Section 8139 of this Act restates the applicable funding limitations from section 3601 of title 10, United States Code. The agreement notes that, over the past fiscal year, Rapid Acquisition Authority notifications required by law have not been timely or comprehensive. The Secretary of Defense is directed to provide a briefing to the House and Senate Defense Appropriations Subcommittees, not later than 30 days after the enactment of this Act, that describes how the utilization of Rapid Acquisition Authority will be communicated in a more complete and timely fashion in fiscal year 2024 and thereafter.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

The agreement provides \$17,115,037,000 for Research, Development, Test and Evaluation, Army, as follows:

(INSERT PROJECT LEVEL TABLE) & (Insert 94A-P

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [in thousands of dollars]

R-1		Budget Request	Final Bill
1	DEFENSE RESEARCH SCIENCES	296,670	334,670
	Program increase - joint research laboratories		18,000
	Program increase - quantum computing center		10,000
	Program increase - development of crystalline porous materials		5,000
	Program increase - unmanned aerial systems hybrid propulsion		5,000
2	UNIVERSITY RESEARCH INITIATIVES	75,672	85,672
	Program increase - cyber autonomy range	•	3,000
	Program increase - soldier touchpoint center		7,000
3	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	108,946	124,946
	Program increase - renewable energy technologies		5,000
	Program increase - biotechnology advancements		1,000
	Program increase - materials in extreme dynamic environments		5,000
	Program increase - quantum and photonics research		5,000
4	CYBER COLLABORATIVE RESEARCH ALLIANCE	5,459	5,459
5	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASIC RESEARCH	10,708	10,708
6	ARMY AGILE INNOVATION AND DEVELOPMENT-APPLIED RESEARCH	5,613	1,000
	Undefined requirement		-4,613
8	COUNTER IMPROVISED-THREAT ADVANCED STUDIES	6,242	6,242
9	LETHALITY TECHNOLOGY	85,578	152,578
	Program increase - advanced semiconductor power devices		12,500
	Program increase - advanced materials and manufacturing for modernization	n	20,000
	Program increase - armaments technology of unmanned systems		1,000
	Program increase - carbon composites for hypersonic weapons		10,000
	Program increase - tactical organic fire support		5,000
	Program increase - advanced materials research and development		9,000
	Program increase - ceramic protection materials		2,500
	Program increase - digital technologies for armament systems		2,000
	Program increase - quantum technologies for armament systems		5,000
10	ARMY APPLIED RESEARCH	34,572	34,572

R-1		Budget Request	Final Bill
11	SOLDIER LETHALITY TECHNOLOGY	104,470	210,770
	Program increase - future force requirements experimentation -	, , , , , ,	•
	advanced dynamic spectrum reconnaissance		10,000
	Program increase - HEROES		5,000
	Program increase - material development for personal protection system	ns	5,000
	Program increase - nanolayered polymer optics		5,000
	Program increase - Pathfinder Air Assault		10,000
	Program increase - Pathfinder Airborne		8,000
	Program increase - Pathfinder multidomain operations ready ranger initi	ative	10,000
	Program increase - academic accelerator program		17,000
	Program increase - advanced textiles and shelters		6,000
	Program increase - digital night vision technology		8,800
	Program increase - enhanced ballistic protective eyewear		1,000
	Program increase - enhanced soldier ballistic protection		2,000
	Program increase - Pathfinder adaptive experimentation force		3,000
	Program increase - Pathfinder arctic warfare		5,000
	Program increase - Perovskite-based energy generation		2,500
	Program increase - sustainability of soldier-borne equipment through syl	nthetic biology	2,500
	Program increase - wafer-level vacuum packaging		5,500
12	GROUND TECHNOLOGY	60,005	269,505
	Program increase - additive manufacturing for weapons and armaments	components	5,000
	Program increase - advanced ceramic technologies		5,000
	Program increase - autonomous digital design		6,000
	Program increase - carbon nanomaterials as functional additives		10,000
	Program increase - coastal hydraulics laboratory project		4,000
	Program increase - environmental quality enhanced coatings		5,000
	Program increase - extreme battery technology		10,000
	Program increase - flexible hybrid electronics		10,000
	Program increase - high performance polymer composites		3,500
	Program increase - integrity of transparent armor		5,000
	Program increase - pavement preservation		3,500
	Program increase - quadruped unmanned ground vehicles		4,000
	Program increase - rapid advanced deposition		15,000
	Program increase - rapid ultra-lightweight infrastructure manufacturing		6,000
	Program increase - stainless steel applications for defense use		10,000
	Program increase - artificial intelligence framework for adaptive polymer	composites	5,000
	Program increase - autonomous rough terrain container handler		3,000
	Program increase - ceramic materials for extreme environments		3,000
	Program increase - critical hybrid advanced materials processing Program increase - convergent manufacturing for microfactories		5,000 2,000
	Program increase - defense resiliency against extreme cold weather		8,000
	Program increase - electrolyzer technology		3,500
	Program increase - forecasting development of arctic maritime and perm	nafrost conditions	2,000
	Program increase - high temperature alloy powders	Tarrest corrections	10,000
	Program increase - materials technology for rare earth elements		10,000
	Program increase - metal forging innovation		5,000
	Program increase - mine and improvised explosive device detection rese	earch	2,000
	Program increase - novel material solutions in austere operating environ		10,000
	Program increase - PFAS predictive modeling	···· ···	5,000
	Program increase - polar proving ground		10,000
	Program increase - predictive development of water-related hazards		6,000
	Program increase - protective coatings		10,000
	Program increase - research for hydrogen energy from galvanic aluminu	ım	5,000
	Program increase - scaling of lightweight metallurgical development		1,500
	Program increase - verified inherent control		1,500



R-1	В	udget Request	Final Bill
13	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY Program increase - active protection systems Program increase - advanced materials development for survivability	166,500	260,200 10,000 10,000
	Program increase - advanced technologies for autonomous		
	ground vehicles and warfighter survivability		6,000
	Program increase - gunner restraint system		2,200
	Program increase - highly electrified vehicles		5,000
	Program increase - machine learning optimized power electronics Program increase - prototyping energy smart autonomous ground systems		5,000 5,000
	Program increase - prototyping energy smart autonomous ground systems Program increase - silicon carbide electronics		8,000
	Program increase - fast-refueling fuel cell engines		3,500
	Program increase - hydrogen technologies		10,000
	Program increase - hyperspectral sensors for autonomous operations		2,000
	Program increase - large metal additive manufacturing for ground vehicles		10,000
	Program increase - mobility materials research		10,000
	Program increase - small unit technology advancements		7,000
14	NETWORK C3I TECHNOLOGY	81,618	162,618
	Program increase - advanced packaging technologies for hardware security		10,000
	Program increase - Collaborative for Hierarchical and Agile Responsive Material	IS	5,000 10,000
	Program increase - distributed radio frequency sensor/effector technology Program increase - low-cost counter-drone EW force protection		5,000
	Program increase - PNT for inertial systems		10,000
	Program increase - secure microelectronic interposer technology for hardware a	ssurance	5,000
	Program increase - agile sensing for radio frequency and radar capabilities		5,000
	Program increase - detection of unexploded ordnance technology		6,000
	Program increase - integrated photonics for contested RF environments		10,000
	Program increase - multi-static radar system		8,000
	Program increase - social network analysis		5,000
	Program increase - urban subterranean mapping technology		2,000
15	LONG RANGE PRECISION FIRES TECHNOLOGY	34,683	83,183
	Program increase - design for additive manufacturing for missile applications		5,000
	Program increase - extended range projectiles Program increase - reactive alloy munition with enhanced blast for force modern	ization	5,000 10,500
	Program increase - advanced manufacturing for refractory alloys	nzation	5,000
	Program increase - high speed missile materials		18,000
	Program increase - hypersonic wind tunnel development		5,000
16	FUTURE VERTICAL LIFT TECHNOLOGY	73,844	99,344
	Program increase - high density eVTOL power source	70,044	10,000
	Program increase - high strength functional composites		5,000
	Program increase - robotic operating system		5,000
	Program increase - adaptive flight control technology		3,000
	Program increase - future vertical lift technologies		2,500
17	AIR AND MISSILE DEFENSE TECHNOLOGY	33,301	87,801
	Program increase - counter-UAS center of excellence		5,000
	Program increase - high energy laser range in a box		20,000
	Program increase - low SWAP-C next generation HEL		7,000
	Program increase - unmanned aircraft systems testing and research center		5,000
	Program increase - Army missile risk-based mission assurance		2,500
	Program increase - beam control systems and industry grade optical fiber fabrication for energy laser		15,000
• •	•		•
18	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNOLOGIES	24,142	27,142
	Program increase - automated battle damage assessment and adjust fire		3,000



R-1	Budget	Request	Final Bill
19	ALL DOMAIN CONVERGENCE APPLIED RESEARCH	14,297	14,297
20	C3I APPLIED RESEARCH Program increase - sensor development for detection of chemical and biological threat	30,659	32,659 2,000
21	AIR PLATFORM APPLIED RESEARCH	48,163	54,663
•	Program increase - manufacturing technology for reverse engineering Program increase - multispectral sensors for unmanned aerial systems	40,100	5,000 1,500
22	SOLDIER APPLIED RESEARCH	18,986	18,986
23	C3I APPLIED CYBER	22,714	22,714
24	BIOTECHNOLOGY FOR MATERIALS - APPLIED RESEARCH	16,736	16,736
25	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	19,969	19,969
27	Program increase - human performance optimization Program increase - nutrition impacts on military health and performance Program increase - bioelectronic device program Program increase - bioelectronic device program Program increase - biomaterials for combat wound care Program increase - biomedical research for the improvement of cartilage healing Program increase - development of combat-ready antimicrobial hemostatic wound dres Program increase - multiplexed assay for immune responses to infectious diseases Program increase - musculoskeletal health and performance research Program increase - nanomaterials for bone regeneration Program increase - trauma immunology Program increase - physiological study of female warfighters to improve training Program increase - RNA therapeutics for infectious disease threats Program increase - treatment research for osseointegrated implants MEDICAL ADVANCED TECHNOLOGY Program increase - prophylactic medical countermeasure for acute radiation syndrome Program increase - hearing protection for communications Program increase - novel strategies to prevent infection in severe fractures Program increase - suicide prevention with a focus on rural, remote, isolated, and OCONUS installations	4,147	141,500 15,000 5,000 5,000 3,000 1,000 5,000 2,500 5,000 10,000 15,000 4,000 2,734 23,881 5,000 8,000 4,734
28	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	16,316	16,316
	ARMY AGILE INNOVATION AND DEMONSTRATION	23,156	23,156
	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	13,187	24,687
30	ADVANCED TECHNOLOGIES Program increase - cognitive computing architecture for military systems		11,500
31	ALL DOMAIN CONVERGENCE ADVANCED TECHNOLOGY	33,332	33,332
32	C3I ADVANCED TECHNOLOGY	19,225	19,225
33	AIR PLATFORM ADVANCED TECHNOLOGY	14,165	14,165
34	SOLDIER ADVANCED TECHNOLOGY	1,214	1,214



R-1		Budget Request	Final Bill
36	LETHALITY ADVANCED TECHNOLOGY	20,582	69,582
•••	Program increase - hypersonic test range infrastructure		35,000
	Program increase - robotic electric submersible vehicles		14,000
37	ARMY ADVANCED TECHNOLOGY DEVELOPMENT	136,280	136,280
38	SOLDIER LETHALITY ADVANCED TECHNOLOGY	102,778	129,278
•••	Program increase - advanced female body armor	102,110	7,000
	Program increase - squad operations advanced resupply		5,000
	Program increase - personal air mobility capability		2,500
	Program increase - inspection scanners with computing machine learn	nina	2,000
	Program increase - military footwear research	····· 3	10,000
39	GROUND ADVANCED TECHNOLOGY	40,597	281,097
	Program increase - additive manufacturing with indigenous materials	,	8,000
	Program increase - anticipating threats to natural systems		6,000
	Program increase - binder jet additive components		10,000
	Program increase - clean modular hydropower		14,000
	Program increase - cross laminated timber		5,500
	Program increase - developing engineering practices for ecosystem d	lesian solutions	8,000
	Program increase - electrochemical conversion of waste streams for o		5,000
	Program increase - geoengineering material solutions	and the fact generalized	10,000
	Program increase - high power fast charging for fleet modernization		5,000
	Program increase - methane capture and conversion		5,000
	Program increase - microgrid reliability and resiliency		10,000
	Program increase - novel materials for smart infrastructure systems		6,000
	Program increase - OLED micro displays		4,000
	Program increase - ruggedized deployable solar generator		8,000
	Program increase - secure management of energy generation and sto	orage	6,000
	Program increase - self contained power for towers and sensors		5,000
	Program increase - ultra-high strength steel construction material		8,000
	Program increase - water reuse consortium		10,000
	Program increase - accelerator technology for ground maneuver		4,000
	Program increase - alternative cement solutions		5,000
	Program increase - Army visual and tactical arctic reconnaissance		2,000
	Program increase - assessments and monitoring systems for historic	structures	3,000
	Program increase - autonomous combat engineering program		2,000
	Program increase - cold weather military research		4,000
	Program increase - counter-UAS silent passive radar system		5,000
	Program increase - deep strength pavement		5,000
	Program increase - entry control points at installations		2,500
	Program increase - extreme temperatures energy resilience research		5,000
	Program increase - graphene applications for military engineering		2,500
	Program increase - hydrogen fuel cell back-up power system develope	ment	5,000
	Program increase - impacts of soil structures on hydrology		4,000
	Program increase - innovative design and manufacturing of		
	advanced composites/multi material protective systems		5,000
	Program increase - mass timber applications for military construction p	projects	2,500
	Program increase - materials and manufacturing technology for cold e	environments	6,000
	Program increase - mobile micro-reactor program		5,000
	Program increase - rechargeable lithium batteries		5,000
	Program increase - reconfigurable underground test and evaluation		5,000
	Program increase - reusable polymer technology		2,500
	Program increase - soft target protection		5,000
	Program increase - synthetic fuel research		3,000
	Program increase - rapid entry and sustainment for the arctic		7,000
	Program increase - weapon terminal effects in extreme temperatures		6,000
	·	ng	6,000



₹-1		Budget Request	Final Bill
10	COUNTER IMPROVISED-THREAT SIMULATION	21,672	21,672
41	BIOTECHNOLOGY FOR MATERIALS - ADVANCED RESEARCH	59,871	59,871
12	C3I CYBER ADVANCED DEVELOPMENT	28,847	48,847
	Program increase - high bandwidth cryptomodule		20,000
	HIGH PERFORMANCE COMPUTING MODERNIZATION	255,772	255,772
13	PROGRAM		
	NEXT GENERATION COMBAT VEHICLE ADVANCED	217,394	452,028
14	TECHNOLOGY		5.000
	Program increase - additive manufacturing of critical components		5,000
	Program increase - advanced adhesives		5,000
	Program increase - advanced manufacturing center of excellence		12,500
	Program increase - autonomous vehicle mobility		5,500
	Program increase - casting to additive manufacturing		6,000
	Program increase - chrome elimination and lethality for medium		0.000
	caliber ground weapons systems barrels		3,000
	Program increase - composite components for medium caliber armamen	it systems	5,000
	Program increase - C-UAS for 5G-enabled drones		5,000
	Program increase - digital twin		7,000
	Program increase - driver vision enhancement with sensor fusion technological	logy	15,000
	Program increase - highly engineered rotating components		5,000
	Program increase - maneuverable lightweight electric weight reducer		7,500
	Program increase - multi-national contested logistics system		5,000
	Program increase - off-road maneuver		7,000
	Program increase - operational energy platform testing		10,000
	Program increase - silent watch hydrogen fuel cell		10,000
	Program increase - synthetic graphite battery technology		10,000
	Program increase - titanium armor and joining techniques		5,000
	Program increase - advanced materials applications		12,000
	Program increase - advanced nickel-cobalt alloy armor protection		8,000
	Program increase - augmented reality for denied environments		3,500
	Program increase - autonomous ground vehicle research		3,000
	Program increase - autonomous minefield clearance		8,134
	Program increase - blast resistant fuel systems		2,500
	Program increase - cybersecurity for autonomous ground vehicles		5,500
	Program increase - digital enterprise management for OMFV		10,000
	Program increase - dual chemistry battery pack demonstration		5,000
	Program increase - human digital twin and human-machine interaction		3,000
	Program increase - hydrogen storage solution		5,000
	Program increase - lithium-ion batteries for military vehicles		8,000
	Program increase - medium caliber hybrid composite barrel		3,000
	Program increase - modular electric motors		5,000
	Program increase		8,000
	Program increase - predictive maintenance system		2,000
	Program increase - radio frequency photonic systems		4,000
	Program increase - threat detection for 5G-enabled drones		2,500
	Program increase - virtual and physical prototyping		8,000

R-1		Budget Request	Final Bill
45	NETWORK C3I ADVANCED TECHNOLOGY Program increase - C5ISR next generation flexible digital antenna Program increase - advanced encryption technology Program increase - denied area monitoring and exploitation Program increase - advanced dynamic spectrum reconnaissance Program increase - C5ISR modular open suite of standards integration Program increase - inter-satellite links for space operations Program increase - modular open systems architecture development for radio frequency systems Program increase - next generation command platform	105,549	172,549 21,000 7,000 2,500 1,500 15,000 3,000 10,000 7,000
46	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY Army requested transfer from line 212 Program increase - advanced caliber munitions demonstration Program increase - joined tandem wing steerable munition Program increase - XM1155 glide flight projectile Program increase - hypersonic metal alloys Program increase - aluminum lithium alloy solid rocket flight demonstration Program increase - digital engineering for missile technology	153,024	235,524 30,000 10,000 5,000 20,000 7,500 5,000 5,000
47	Program increase - additive manufacturing for maintenance, repair, and or Program increase - advanced air mobility Program increase - autonomous configuration management and aviation Program increase - data refinement and optimization for aviation sustains Program increase - FLEETSPACE helicopter maintenance management Program increase - surface tolerant adhesives Program increase - VTOL rotor blade efficiency enhancements Program increase - composite structure research for aircraft Program increase - high performance steels for improved drive system Program increase - multi mission capability for unmanned aircraft Program increase - platform digitization and maintenance	records	223,545 8,000 5,000 2,000 4,500 4,750 6,000 20,000 5,000 3,000 1,000 5,500
48	AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY Program increase - advanced multilayered mobile force protection Program increase - HEL power and thermal subsystem Program increase - distributed gain 300kW-class laser weapons system Program increase - future interceptor Program increase - physics-based hardware and software algorithms Program increase - SHORAD integration and evaluation Program increase - silicon carbide electronics	21,015	87,015 20,000 10,000 10,000 10,000 5,000 2,500 8,500
49	HUMANITARIAN DEMINING Program increase	9,068	23,068 14,000
51	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION Program increase - Al decision aids for all domain operations Program increase - capability for advanced protective technologies asses Program increase - integrated environmental control and power developmental program increase - testing of gun launched interceptors Program increase - weather impacts toolkit		48,904 5,000 11,000 10,000 5,000 5,000
52	ARMY SPACE SYSTEMS INTEGRATION Program increase - Al anomalous cyber intrusion defender Program increase - multi-mission synthetic aperture radar payload develo	19,120	29,120 5,000 5,000



R-1		Budget Request	Final Bil
53	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING Program increase - machine learning for Army integrated fires Program increase - software memory protection methods	0	13,000 10,000 3,000
54	LANDMINE WARFARE AND BARRIER - ADV DEV	47,537	47,537
55	TANK AND MEDIUM CALIBER AMMUNITION Carryover Program increase - 30mm proximity ammunition qualification for AH-64 Program increase - multi-mode proximity airburst for counter-UAS	91,323	106,323 -2,000 15,000 2,000
56	ARMORED SYSTEM MODERNIZATION - ADV DEV Program increase - advanced combat engine Program increase - next generation fuel cell truck	43,026	58,026 13,000 2,000
57	SOLDIER SUPPORT AND SURVIVABILITY	3,550	3,550
58	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - ADV DEV	65,567	65,567
59	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT Program increase - wafer-scale image intensifier technology Army requested transfer to line 101 for IVAS 1.2 Program increase - immersive AR/VR for UAS	73,675	43,075 5,000 -42,600 7,000
60	ENVIRONMENTAL QUALITY TECHNOLOGY - DEM/VAL Carryover Program increase - underwater cut and capture Program decrease Program increase - friction stir additive manufacturing	31,720	19,720 -2,500 5,000 -19,500 5,000
61	NATO RESEARCH AND DEVELOPMENT	4,143	4,143
62	AVIATION - ADV DEV Program increase - all-electric flight control system	1,502,160	1,507,160 5,000
63	LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV Program increase - Army executive agent program, microreactors	7,604	19,604 12,000
64	MEDICAL SYSTEMS - ADV DEV Program increase - arctic medical evacuation and treatment system Program increase - wearable medical device for TBI prevention	1,602	6,102 2,000 2,500
65	SOLDIER SYSTEMS - ADVANCED DEVELOPMENT Program increase - rifle integrated controller Program increase - tactical hearing protection Soldier protective equipment excess to need Program increase - development of fully integrated sight Program increase - laser range finder	27,681	42,481 5,000 3,000 -2,200 5,000 4,000
66	ROBOTICS DEVELOPMENT	3,024	3,024
67	EXPANDED MISSION AREA MISSILE (EMAM) IFPC-HEL ahead of need Program increase - IFPC-HPM	97,018	112,394 -24,624 40,000
68	CROSS FUNCTIONAL TEAM (CFT) ADVANCED DEVELOPMENT & PROTOTYPING Program decrease	117,557	64,119 -53,438



R-1		Budget Request	Final Bill
69	LOW EARTH ORBIT (LEO) SATELLITE CAPABILITY	38,851	38,851
70	MULTI-DOMAIN SENSING SYSTEM (MDSS) ADV DEV	191,394	191,394
71	TACTICAL INTEL TARGETING ACCESS NODE (TITAN) ADV DEV	10,626	10,626
72	ANALYSIS OF ALTERNATIVES	11,095	11,095
73	SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.4)	5,144	5,144
74	ELECTRONIC WARFARE PLANNING AND MANAGEMENT TOOL (EWPMT)	2,260	2,260
75	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM (FTUAS) Program increase - resilient battlefield communication Program increase - secure APNT for FTUAS	53,143	67,143 10,000 4,000
76	LOWER TIER AIR MISSILE DEFENSE (LTAMD) SENSOR Field sensors early to need	816,663	530,373 -286,290
77	TECHNOLOGY MATURATION INITIATIVES Unjustified growth	281,314	257,977 -23,337
78	MANEUVER - SHORT RANGE AIR DEFENSE (M-SHORAD) Program increase - C-UAS enhancements Increment II prototype delay	281,239	300,257 26,263 -7,245
79	ARMY ADVANCED COMPONENT DEVELOPMENT & PROTOTYPING	204,914	204,914
80	ASSURED POSITIONING, NAVIGATION AND TIMING (PNT) Program increase - AltNav capability	40,930	55,930 15,000
81	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT & PROTOTYPING	109,714	109,714
82	COUNTER IMPROVISED-THREAT DEMONSTRATION, PROTOTYPE DEVELOPMENT, AND TESTING	16,426	16,426
83	STRATEGIC MID-RANGE FIRES	31,559	31,559
84	HYPERSONICS Army-requested transfer from line 147 Army-requested transfer from MiPA line 12 Program increase - near net shape materials	43,435	202,778 130,630 23,713 5,000
85	FUTURE INTERCEPTOR	8,040	8,040
86	COUNTER - SMALL UNMANNED AIRCRAFT SYSTEMS ADVANCED DEVELOPMENT Unjustified request	64,242	56,932 -7,310
87	UNIFIED NETWORK TRANSPORT	40,915	40,915
91	AIRCRAFT AVIONICS	13,673	13,673
92	ELECTRONIC WARFARE DEVELOPMENT	12,789	12,789



R-1		Budget Request	Final Bill
93	INFANTRY SUPPORT WEAPONS Program increase - arctic mobility dismounted domestic boot Program increase - cannon life extension program Program increase - cannon life extension program reduction of hexavalent of Program increase - crew served weapons fire control sensor development Program increase - CROWS-AHD Program increase - secure-mode personnel recovery device	64,076 hromium	83,176 600 1,500 3,000 6,000 5,000 3,000
94	MEDIUM TACTICAL VEHICLES Program decrease	28,226	18,226 -10,000
95	JAVELIN	7,827	7,827
96	FAMILY OF HEAVY TACTICAL VEHICLES Predictive logistics RSIP early to need	44,197	41,697 -2,500
97	AIR TRAFFIC CONTROL Program increase - integrated mission planning and airspace control tools	1,134	11,134 10,000
98	TACTICAL UNMANNED GROUND VEHICLE (TUGV)	142,125	142,125
99	LIGHT TACTICAL WHEELED VEHICLES Program decrease	53,564	9,864 -43,700
100	ARMORED SYSTEMS MODERNIZATION (ASM) - ENG DEV Funding excess to need	102,201	99,201 -3,000
101	NIGHT VISION SYSTEMS - ENG DEV Soldier night vision device - historical underexecution Maintain soldier night vision device level of effort Army-requested transfer from line 59 for IVAS 1.2 Transfer from OP.A line 70 for IVAS 1.2 Program increase - additional systems only to conduct scaled operational decompositions.	48,720 emonstration	146,804 -2,000 -1,000 42,600 20,055 38,429
102	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	2,223	2,223
103	NON-SYSTEM TRAINING DEVICES - ENG DEV	21,441	21,441
104	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE - ENG DEV Program increase - C-UAS enhancements Program increase - software integration digital ecosystem	74,738	89,738 5,000 10,000
105	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	30,985	30,985
106	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	13,626	13,626
107	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - ENG DEV	8,802	8,802
108	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	20,828	20,828
109	WEAPONS AND MUNITIONS - ENG DEV Program increase - lightweight ammunition manufacturing resilience Program increase - low drag artillery guidance kit Program increase - LR-PGK acceleration Program increase - OMFV ammunition	243,851	266,851 5,000 5,000 10,000 3,000



R-1	Budget Request	Final Bill
110 LOGISTICS AND ENGINEER EQUIPMENT - ENG DEV Program increase - mobile ULCANS Program increase - arctic campaigning logistics and eng Program increase - arctic capable expeditionary shelters Program increase - deployable, energy efficient, rigid wa	;	59,920 5,000 1,000 4,500 12,000
COMMAND, CONTROL, COMMUNICATIONS SYSTEMS		49,214
111 DEV Program increase - mounted mission command-transpo	rt	15,000
MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE	E 6,496	6,496
113 LANDMINE WARFARE/BARRIER - ENG DEV Program increase - prototype integration	13,581	33,581 20,000
ARMY TACTICAL COMMAND & CONTROL HARDWARE 114 SOFTWARE	E & 168,574	168,574
115 RADAR DEVELOPMENT Carryover	94,944	81,332 -13,612
116 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (G	FEBS) 2,965	2,965
117 SOLDIER SYSTEMS - WARRIOR DEM/VAL Program increase - conformal wearable battery Program increase - wearable fuel cell development	11,333	19,333 5,000 3,000
118 SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS Carryover Maintain program management level of effort	- EMD 79,250	73,050 -5,000 -1,200
119 ARTILLERY SYSTEMS - EMD Program increase - soft recoil for 105mm extended rang	42,490 e artillery systems	47,490 5,000
120 INFORMATION TECHNOLOGY DEVELOPMENT Phase EBS-C program growth ArmylgnitED historical underexecution	104,024	89,151 -9,750 -5,123
121 INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (Program decrease	IPPS-A) 102,084	90,207 -11,877
123 JOINT TACTICAL NETWORK CENTER (JTNC)	18,662	18,662
124 JOINT TACTICAL NETWORK (JTN)	30,328	30,328
125 COMMON INFRARED COUNTERMEASURES (CIRCM)	11,509	11,509
126 COMBATING WEAPONS OF MASS DESTRUCTION (CW	(MD) 1,050	1,050
128 DEFENSIVE CYBER TOOL DEVELOPMENT Transfer to line 228 for BA-08 execution Program increase - multi-factor authentication for cyber s	27,714 security	30,586 -5,128 8,000
129 TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER)	4,318	4,318
130 CONTRACT WRITING SYSTEM Program decrease	16,355	12,859 -3,496



R-1		Budget Request	Final Bill
131	MISSILE WARNING SYSTEM MODERNIZATION (MWSM) Excess PM request	27,571	20,247 -7,324
132	AIRCRAFT SURVIVABILITY DEVELOPMENT	24,900	24,900
133	INDIRECT FIRE PROTECTION CAPABILITY INC 2 - BLOCK 1 Program decrease	196,248	179,248 -17,000
134	GROUND ROBOTICS Program increase - common robotic controller SMET Inc II early to need	35,319	27,337 10,000 -17,982
135	EMERGING TECHNOLOGY INITIATIVES Program decrease Program increase - C-UAS and C-CM high energy laser atmospheric study and prototype systems	201,274	118,874 -94,600 5,000
	Program increase - visualization and intelligence planning for enhance	ed readiness	7,200
137	NEXT GENERATION LOAD DEVICE - MEDIUM	36,970	36,970
139	TACTICAL INTEL TARGETING ACCESS NODE (TITAN) EMD	132,136	132,136
140	ARMY SYSTEM DEVELOPMENT & DEMONSTRATION	81,657	81,657
141	SMALL UNMANNED AERIAL VEHICLE (SUAV) (6.5) LRR insufficient justification	31,284	24,769 -6,515
142	CI AND HUMINT EQUIPMENT PROGRAM-ARMY	2,170	2,170
143	JOINT TARGETING INTEGRATED COMMAND AND COORDINATION SUITE (JTIC2S)	9,290	9,290
144	MULTI-DOMAIN INTELLIGENCE Phase program growth	41,003	23,605 -17,398
146	PRECISION STRIKE MISSILE (PRSM)	272,786	272,786
147	HYPERSONICS EMD Army-requested transfer to line 84 Program increase - common hypersonic glide body	900,920	800,290 -130,630 30,000
148	ACCESSIONS INFORMATION ENVIRONMENT (AIE)	27,361	27,361
149	STRATEGIC MID-RANGE CAPABILITY Carryover	348,855	336,355 -12,500
150	INTEGRATED TACTICAL COMMUNICATIONS	22,901	22,901
151	JOINT AIR-TO-GROUND MISSILE (JAGM)	3,014	3,014
152	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD) Program increase - intelligent multi-platform swarm defeat	284,095	296,095 12,000
153	COUNTER - SMALL UNMANNED AIRCRAFT SYSTEMS SYS DEV & DEMONSTRATION	36,016	36,016
154	MANNED GROUND VEHICLE Contract savings	996,653	586,453 -410,200

R-1		Budget Request	Final Bill
155	NATIONAL CAPABILITIES INTEGRATION (MIP)	15,129	15,129
156	JOINT LIGHT TACTICAL VEHICLE (JLTV) ENGINEERING AND MANUFACTURING DEVELOPMENT	27,243	0
	Program decrease		-27,243
157	AVIATION GROUND SUPPORT EQUIPMENT	1,167	1,167
158	TROJAN - RH12	3,879	3,879
159	ELECTRONIC WARFARE DEVELOPMENT	137,186	137,186
160	THREAT SIMULATOR DEVELOPMENT Program increase - CSOC extended regional cyber spoke Program increase - threat counter-artificial intelligence Program increase - CSOC for contested logistics Program increase - UAS swarm threat representation, detection, and min	38,492 tigation	72,992 12,500 10,000 5,000 7,000
161	TARGET SYSTEMS DEVELOPMENT Program increase - replacement of foreign engines for aerial targets Program increase - UAS 5G, AI, and cyber detection and mitigation	11,873	34,373 12,500 10,000
162	MAJOR T&E INVESTMENT Program increase - advancing operational test infrastructure	76,167	90,467 14,300
163	RAND ARROYO CENTER	37,078	37,078
164	ARMY KWAJALEIN ATOLL	314,872	314,872
165	CONCEPTS EXPERIMENTATION PROGRAM Maintain Project Convergence level of effort Program increase - Army Expeditionary Warrior Experiment	95,551	90,351 -10,200 5,000
167	ARMY TEST RANGES AND FACILITIES Program increase - WDTC	439,118	447,118 8,000
168	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS Program increase - rapid assurance modernization program - test	42,220	47,220 5,000
169	SURVIVABILITY/LETHALITY ANALYSIS	37,518	37,518
170	AIRCRAFT CERTIFICATION	2,718	2,718
172	MATERIEL SYSTEMS ANALYSIS Program decrease	26,902	23,402 -3,500
173	EXPLOITATION OF FOREIGN ITEMS	7,805	7,805
174	SUPPORT OF OPERATIONAL TESTING	75,133	75,133
175	ARMY EVALUATION CENTER	71,118	71,118
176	ARMY MODELING & SIM X-CMD COLLABORATION & INTEGRATION	11,204	11,204
177	PROGRAMWIDE ACTIVITIES	93,895	93,895
178	TECHNICAL INFORMATION ACTIVITIES	31,327	31,327



R-1		Budget Request	Final Bill
179	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	50,409	52,909
	Program increase - industrial base resiliency		2,500
180	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	1,629	1,629
181	ARMY DIRECT REPORT HEADQUARTERS - R&D - MHA	55,843	55,843
182	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE	91,340	91,340
183	COUNTERINTEL AND HUMAN INTEL MODERNIZATION	6,348	6,348
185	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	6,025	6,025
187	MLRS PRODUCT IMPROVEMENT PROGRAM	14,465	14,465
188	ANTI-TAMPER TECHNOLOGY SUPPORT	7,472	7,472
100	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS	8,425	75,206
	Program increase - digital engineering for tungsten carbide ammunition Program increase - printed electronics Program increase - stibnite and antimony for ammunition production Program increase - agile manufacturing for advanced armament systems Program increase - development and testing software for 155 mm round p Program increase - hybrid ammunition manufacturing for next-generation s Program increase - refractory metal alloys for hypersonics Program increase - smart manufacturing for armaments		5,100 9,000 10,500 5,000 12,000 10,181 10,000 5,000
190	BLACKHAWK PRODUCT IMPROVEMENT PROGRAM Program increase - Block II development Program increase - UH-60 BlackHawk main rotor blade modernization Program increase - blade integrity	1,507	41,014 21,500 10,507 7,500
191	CHINOOK PRODUCT IMPROVEMENT PROGRAM Program increase - reliability, availability, and maintainability improvement Test and evaluation underexecution Program increase - engine enhancement Program increase - CH-47 qualification	9,265 is	20,765 5,000 -3,000 7,500 2,000
192	IMPROVED TURBINE ENGINE PROGRAM Program delays	201,247	189,106 -12,141
193	AVIATION ROCKET SYSTEM PRODUCT IMPROVEMENT AND DEVELOPMENT	3,014	3,014
194	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	25,393	25,393
195	APACHE FUTURE DEVELOPMENT Program increase - strap-down pilotage Apache Program increase - AH-64 modernization	10,547	23,047 5,000 7,500
196	AN/TPQ-53 COUNTERFIRE TARGET ACQUISITION RADAR SYSTEM	54,167	54,167
197	INTEL CYBER DEVELOPMENT	4,345	4,345
198	ARMY OPERATIONAL SYSTEMS DEVELOPMENT	19,000	19,000



R-1		Budget Request	Final Bill
199	ELECTRONIC WARFARE DEVELOPMENT	6,389	6,389
200	ENDURING TURBINE ENGINES AND POWER SYSTEMS Program decrease	2,411	0 -2,411
201	FAMILY OF BIOMETRICS	797	797
202	PATRIOT PRODUCT IMPROVEMENT	177,197	177,197
203	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM (JADOCS) AFATDS carryover	42,177	38,957 -3,220
204	COMBAT VEHICLE IMPROVEMENT PROGRAMS Stryker carryover Program increase - Abrams modernization Program increase - Stryker driver-assistance systems	146,635	228,690 -10,445 88,300 4,200
205	155MM SELF-PROPELLED HOWITZER IMPROVEMENTS Program delays	122,902	22,902 -100,000
207	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	146	146
208	DIGITIZATION	1,515	1,515
209	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM	4,520	4,520
210	OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	10,044	10,044
211	ENVIRONMENTAL QUALITY TECHNOLOGY - OPERATIONAL SYSTEM DEV	281	281
212	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS) Army requested transfer to line 46 Test support for EAW early to need	75,952	45,052 -30,000 -900
213	JOINT TACTICAL GROUND SYSTEM	203	203
216	SECURITY AND INTELLIGENCE ACTIVITIES Program increase - all source data fusion platform	301	16,301 16,000
217	INFORMATION SYSTEMS SECURITY PROGRAM	15,323	15,323
218	GLOBAL COMBAT SUPPORT SYSTEM	13,082	13,082
219	SATCOM GROUND ENVIRONMENT (SPACE)	26,838	26,838
222	INTEGRATED BROADCAST SERVICE (IBS)	9,456	9,456
224	AIRBORNE RECONNAISSANCE SYSTEMS Program increase - imaging cold environments using multispectral airborne	0 networks	5,000 5,000
225	MQ-1C GRAY EAGLE UAS	6,629	6,629



R-1	Budget Request	Final Bil
227 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	75,317	116,317
Program increase - 3D printing of ballistic ceramics		13,000
Program increase - advanced pressing applications for optimiza	tion of hard armor	10,000
Program increase - domestic manufacturing for energetic mater		5,000
Program increase - processing of refractory alloys		5,000
Program increase - advanced manufacturing for missile, radar a	and ground support equipment	4,000
Program increase - advanced manufacturing cell for missile fins		4,000
228 DEFENSIVE CYBER - SOFTWARE PROTOTYPE DEVELOPMEN	NT 83,570	104,048
Transfer from line 128 for BA-08 execution		5,128
Transfer from OPA line 44 for BA-08 execution		13,848
Transfer from OPA line 45 for BA-08 execution		1,502
999 CLASSIFIED PROGRAMS	8,786	8,786
999 CLASSIFIED PROGRAMS	19,200	19,200
TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATIO	•	
ARMY	15,775,381	17,115,037

SOLDIER ENHANCEMENT PROGRAM

The agreement supports the Army's Soldier Enhancement Program (SEP) and understands the SEP provides soldiers with modernized individual equipment using a rapid acquisition approach that has resulted in proven cost savings and accelerated fielding of needed capability. Additionally, the agreement encourages the Secretary of the Army to resource the SEP across the future years defense program and notes with concern that prior year President's budget requests did not fully support SEP requirements. Further, the agreement directs the Secretary of the Army to provide a briefing to the House and Senate Defense Appropriations Subcommittees, not later than 30 days after enactment of this Act, on the plan to address SEP funding requirements in future President's budget requests.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

The agreement provides \$27,964,807,000 for Research, Development, Test and Evaluation, Navy, as follows:

(INSERT PROJECT LEVEL TABLE) (Inser+ 96A-M)

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

R-1		Budget Request	Final Bill
1	UNIVERSITY RESEARCH INITIATIVES	96,355	106,355
	Program increase - defense university research instrumentation program	55,555	10,000
2	DEFENSE RESEARCH SCIENCES	540,908	557,158
	Program increase - silicon-germanium-tin alloy research		5,000
	Program increase - hypersonics workforce development		5,000
	Program increase - shaping metallic surfaces for thermal system management	t	3,250
	Program increase - UUV next generation sensing and maneuverability		3,000
3	POWER PROJECTION APPLIED RESEARCH	23,982	23,982
4	FORCE PROTECTION APPLIED RESEARCH	142,148	289,748
	Program increase - seawater to jet fuel demo		10,000
	Program increase - relative positioning of autonomous platforms		6,250
	Program increase - underwater electromagnetic theory and ocean hydrodynam	nics	5,600
	Program increase - direct air capture and blue carbon removal technology		10,000
	Program increase - resilient autonomous systems research and diversity progr		9,500
	Program increase - talent and technology for Navy power and energy systems		12,500
	Program increase - additive manufacturing of unmanned maritime systems		10,000
	Program increase - autonomous collaboration in confined maritime environment	nts	5,000
	Program increase - cavitation erosion		2,500
	Program increase - corrosion control coatings and material		5,000
	Program increase - energy resilience		7,000
	Program increase - multi-material flexible automated manufacturing		12,000
	Program increase - resilient innovative sustainable economies via university pa	artnerships	9,000
	Program increase - sUAS degraded environment testing		10,250 8,000
	Program increase - titanium refinement process Program increase - alternative energy research		25,000
5	MARINE CORPS LANDING FORCE TECHNOLOGY	59,208	68,708
	Program increase - unmanned logistics solutions		9,500
6	COMMON PICTURE APPLIED RESEARCH	52,090	52,090
7	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	74,722	170,722
	Program increase - hypersonic rocket skin		25,000
	Program increase - rapid applied materials processing lab development		6,000
	Program increase - human performance and injury rehabilitation assessment t	ool	4,000
	Program increase - high mobility ground robots		5,000
	Program increase - conductive pigments and coatings in batteries		8,500
	Program increase - anti-corrosion nanotechnology		9,000
	Program increase - augmented reality robotic surgery	Nava da suma di akima a	5,000
	Program increase - engineered systems to restore skin and tactile sensory in I	vavy burn victims	2,500
	Program increase - health and safety of underground fuel storage	oulation	10,000 3,000
	Program increase - long-term autonomy for underwater surveillance and manip Program increase - remote vestibular assessment technology	pulation	5,000
	Program increase - remote vestibiliar assessment technology Program increase - warfighter protection against directed energy -		5,000
	physics-based neutralization to human tissues and organs		10,000
	Program increase - foreign malign information operations		3,000
8	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	92,473	107,973
_	Program increase - advanced antenna technology	- ,	7,000
	Program increase - dark swarm in denied environments		6,000
	Program increase - heterogeneous photonic integrated circuit platforms		2,500



R-1	В	udget Request	Final Bill
9	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH Program increase - enhanced weather prediction and atmospheric rivers research	80,806 ch	134,156 5,000
	Program increase - task force ocean		5,000
	Program increase - pushbroom imaging next generation system		9,850 7,500
	Program increase - arctic geospatial monitoring Program increase - intelligent autonomous systems for seabed warfare		5,000
	Program increase - intelligent autonomous systems for seabed warrane Program increase - ocean acoustics for monitoring		4,000
	Program increase - ocean-ice-atmosphere observation		2,000
	Program increase - oceanographic research for Naval Special Warfare		5,000
	Program increase - SAPF/SCIF university facility upgrades		10,000
10	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	7,419	7,419
11	UNDERSEA WARFARE APPLIED RESEARCH	61,503	101,003
	Program increase - persistent maritime surveillance	,	5,000
	Program increase - distributed sensing for shipboard fire detection and localization	ion	5,000
	Program increase - mobile testbed for UUVs		2,000
	Program increase - partnerships for submarine and undersea vehicle programs		20,000
	Program increase - undersea sensing and communications		5,000
	Program increase - autonomous underwater vehicle		2,500
12	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	182,662	182,662
13	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	30,435	30,435
14	INNOVATIVE NAVAL PROTOTYPES (INP) APPLIED RESEARCH Program increase - ATRT enterprise	133,828	148,828 15,000
15	SCIENCE AND TECHNOLOGY MANAGEMENT - ONR FIELD ACTIVITIES	85,063	85,063
16	FORCE PROTECTION ADVANCED TECHNOLOGY	29,512	69,512
	Program increase - modular missile system technology		25,000
	Program increase - power electronics building block		11,000
	Program increase - deployable additive manufacturing of composite UUVs		4,000
17	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	8,418	13,418
	Program increase - augmented, context-based identity awareness		5,000
40	SCIENCE & TECHNOLOGY FOR NUCLEAR RE-ENTRY SYSTEMS	112,329	112,329
10	RE-ENTRY STSTEMS		
19	USMC ADVANCED TECHNOLOGY DEMONSTRATION (ATD) Program increase - multi-spectral camouflage expeditionary large	308,217	467,517
	targets and structures		5,000
	Program increase - low-cost attritable aircraft technology		32,500
	Program increase - Al/ML for automated EW sensors		20,000
	Program increase - MCWL ground-based ESM		20,000
	Program increase - hybrid-electric engine development Program increase - common sensor platform for strategic and		9,800
	distributed autonomous cyber-EW		10,000
	Program increase - extended range high speed aerial loitering munitions		21,000
	Program increase - MCWL multi-int targeting pod		12,500
	Program increase - long range maneuvering projectile		10,000
	Program increase - adaptive future force		5,000
	Program increase - HWIL for unmanned system development		8,000
	Program increase - MCWL partnership intermediary assistance		2,500
	Program increase - composite shelters		3,000
20	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	15,556	15,556



R-1		Budget Request	Final Bill
	FUTURE NAVAL CAPABILITIES ADVANCED	264,700	292,200
21	TECHNOLOGY DEVELOPMENT		
	Program increase - advanced energetics research and development		10,000
	Program increase - automated acoustic signal classifier		6,000
	Program increase - electronic maneuver warfare unmanned sensor		8,000
	Program increase - real-time undersea monitoring for shipping channels		3,500
22	MANUFACTURING TECHNOLOGY PROGRAM	61,843	83,843
	Program increase - national energetics plan		8,000
	Program increase - sustainable energetic materials manufacturing		4,000
	Program increase - textile industry of the future		10,000
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	5,100	36,600
	Program increase - laser protective eyewear research	0,100	10,000
	Program increase - omniblast water sensor technology		7,000
	Program increase - bone marrow registry program		5,000
	Program increase - warfighter resilience and readiness		5,000
	Program increase - automated resuscitation catheter for hemorrhage control		1,500
	Program increase - remote advanced medical care		3,000
24	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	75,898	105,398
	Program increase - naval tech bridges		15,000
	Program increase - USV cUAS		6,500
	Program increase - warfighter experience lab		8,000
	MINE AND EXPEDITIONARY WARFARE	2,048	2,048
25	ADVANCED TECHNOLOGY	,	_,
	INNOVATIVE NAVAL PROTOTYPES (INP) ADVANCED	132,931	149,431
26	TECHNOLOGY DEVELOPMENT	,,,,,,	,
	Program increase - advanced missile seeker		9,000
	Program increase - HEL testing and maturation for production		1,500
	Program increase - combined fiber laser arrays without wavefront sensing		6,000
	Program increase - combined liber laser arrays without wavelront sensing		0,000
27	UNMANNED AERIAL SYSTEM	108,225	101,947
	Overestimation of ILS		-3,172
	Management services previously funded		-3,040
	Program increase - autonomous maritime patrol aircraft		10,000
	ANE delays		-10,066
28	LARGE UNMANNED SURFACE VEHICLES (LUSV)	117,400	113,080
	Prior year underexecution	117,400	-4,320
	Thor your undoroxoodiion		1,020
29	AIR/OCEAN TACTICAL APPLICATIONS	40,653	43,653
	Program increase - autonomous dual-modality surface and underwater vehicle		3,000
30	AVIATION SURVIVABILITY	20,874	20,874
31	NAVAL CONSTRUCTION FORCES	7,821	7,821
32	ASW SYSTEMS DEVELOPMENT	17,090	17,090
33	TACTICAL AIRBORNE RECONNAISSANCE	3,721	3,721
34	ADVANCED COMBAT SYSTEMS TECHNOLOGY	6,216	25,216
	Program increase - minotaur data dissemination and interoperability services	-,	12,000
	Program increase - tier 2.5 LO platform inspection system		3,000
	Program increase - universal AI/ML core environment		4,000
	i rogram morease - universal Amiric core environment		4,000
35	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	34,690	34,690



R-1		Budget Request	Final Bill
36	SURFACE SHIP TORPEDO DEFENSE	730	730
37	CARRIER SYSTEMS DEVELOPMENT Program increase - digital component certification center	6,095	10,095 4,000
38	PILOT FISH	916,208	916,208
39	RETRACT LARCH	7,545	7,545
40	RETRACT JUNIPER Classified adjustment	271,109	217,309 -53,800
41	RADIOLOGICAL CONTROL	811	811
42	SURFACE ASW	1,189	1,189
43	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	88,415	88,415
44	SUBMARINE TACTICAL WARFARE SYSTEMS	15,119	15,119
45	SHIP CONCEPT ADVANCED DESIGN Program increase - critical protection technology for cybersecurity engineering Program increase - forward-deployed 3D printing materials Program increase - naval expeditionary sustainment and repair Program increase - maintenance technologies supporting operational readinese Transfer from SCN line 21 for AS(X) design	89,939	206,539 9,600 2,000 2,000 3,000 100,000
46	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES Medium landing ship DT&E ahead of need Program increase - DDG(X) design tool	121,402	162,460 -2,142 43,200
47	ADVANCED NUCLEAR POWER SYSTEMS Overestimation of SSN(X) expenditures	319,656	292,656 -27,000
48	ADVANCED SURFACE MACHINERY SYSTEMS Program increase - silicon carbide flexible bus node Program increase - tactical energy management controller Program increase - high temperature superconducting main propulsion electric motor technology Program increase - large format lithium ion batteries	133,911	161,711 11,800 5,000 5,000 6,000
49	CHALK EAGLE	116,078	116,078
50	LITTORAL COMBAT SHIP (LCS) Prior year underexecution	32,615	21,339 -11,276
51	COMBAT SYSTEM INTEGRATION	18,610	18,610
52	OHIO REPLACEMENT Program increase - advanced composite shaft design	257,076	282,076 25,000
53	LCS MISSION MODULES	31,464	31,464
54	AUTOMATED TEST AND RE-TEST (ATRT) Program increase - Overmatch	10,809	25,809 15,000
54A	ATRT ENTERPRISE RAPID CAPABILITY Program increase	0	90,000 90,000



R-1		Budget Request	Final Bill
55	FRIGATE DEVELOPMENT Live fire test and evaluation early to need	112,972	100,060 -2,800
	Unjustified growth		-10,112
56	CONVENTIONAL MUNITIONS	9,030	9,030
57	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM Support costs unjustified growth Prior year underexecution	128,782	119,189 -3,368 -6,225
58	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	44,766	44,766
59	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	10,751	10,751
60	ENVIRONMENTAL PROTECTION	24,457	24,457
61	NAVY ENERGY PROGRAM Program increase - wave energy converters Program increase - marine energy systems for sensors and microgrids	72,214	95,214 13,000 10,000
62	FACILITIES IMPROVEMENT Program increase - groundwater storage analysis	10,149	12,149 2,000
63	CHALK CORAL Classified adjustment	687,841	587,841 -100,000
64	NAVY LOGISTIC PRODUCTIVITY	4,712	4,712
65	RETRACT MAPLE Classified adjustment	420,455	390,455 -30,000
66	LINK PLUMERIA Classified adjustment	2,100,474	2,010,474 -90,000
67	RETRACT ELM	88,036	88,036
68	LINK EVERGREEN Classified adjustment	547,005	516,005 -31,000
69	NATO RESEARCH AND DEVELOPMENT	6,265	6,265
70	LAND ATTACK TECHNOLOGY	1,624	1,624
71	JOINT NON-LETHAL WEAPONS TESTING	31,058	31,058
72	JOINT PRECISION APPROACH AND LANDING SYSTEMS	22,590	22,590
73	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS SNLWS support excess to need Program increase - 100KW directed energy production	52,129	62,129 -5,000 15,000
74	F/A-18 INFRARED SEARCH AND TRACK (IRST)	32,127	32,127
75	DIGITAL WARFARE OFFICE Program increase - Software Radio for Weapons and Autonomous Vehicle Enablement	181,001	183,501 2,500



R-1		Budget Request	Final Bill
76	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES MEDUSA prototype award delay	110,506	90,516 -14,454
	Maintain MEDUSA support level of effort		-2,061
	Razorback staffing delays		-1,050
	Knifefish stand-down		-2,425
77	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	71,156	71,156
	Prior year carryover		-4,000
	Program increase - tactical data links and networks		4,000
	RAPID PROTOTYPING, EXPERIMENTATION	214,100	124,951
78	AND DEMONSTRATION		
	Program increase - commercially available large diameter		25.000
	unmanned undersea vehicle technology Program decrease		35,000 -124,149
	Program declease		-124,149
79	LARGE UNMANNED UNDERSEA VEHICLES	6,900	6,900
	GERALD R. FORD CLASS NUCLEAR AIRCRAFT	118,182	118,182
80	CARRIER (CVN 78 - 80)		
82	SURFACE MINE COUNTERMEASURES	16,127	16,127
	TACTICAL AIR DIRECTIONAL INFRARED		
83	COUNTERMEASURES (TADIRCM)	34,684	34,684
84	NEXT GENERATION LOGISTICS	5,991	5,991
05	CUTUDE VEDTICAL LIST (MADITIME STRIKE)	0.400	4,100
85	FUTURE VERTICAL LIFT (MARITIME STRIKE) Program increase - advanced vertical lift rotor technology	2,100	2,000
			2,000
86	RAPID TECHNOLOGY CAPABILITY PROTOTYPE	131,763	55,358
	Program decrease		-76,405
87	LX (R)	21,319	21,319
88	ADVANCED UNDERSEA PROTOTYPING	104,328	69,723
	Basing equipment ahead of need	,	-20,700
	XLUUV spares maintenance ahead of need		-3,338
	DT&E ahead of need		-10,567
89	COUNTER UNMANNED AIRCRAFT SYSTEMS (C-UAS)	11,567	16,567
	Program increase - backpackable EA module	•	5,000
90	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	5.976	145,276
	Program increase - advanced rocket fuel density	3,010	2,500
	Program increase - CAD/PAD technology		6,800
	Program increase - SLCM-N		90,000
	Program increase - common use technology maturation		40,000
	SPACE AND ELECTRONIC WARFARE (SEW)	9,993	9,993
91	ARCHITECTURE/ENGINEERING SUPPORT		
	OFFENSIVE ANTI-SURFACE WARFARE WEAPON	237,655	258,948
92	DEVELOPMENT OASuW Increment II Phase 1 previously funded		-18,707
	Navy-requested transfer from WPN line 15 for LRASM C-3		40,000
	Havy-requested transier from the 14 line 10 lot EtVASIN 0-3		40,000

R-1		Budget Request	Final Bill
93	MEDIUM UNMANNED SURFACE VEHICLES (MUSVS) MUSV prototype delays MUSV requirements development excess to need Dock and sea trials ahead of need Program increase	85,800	149,130 -3,918 -4,700 -7,052 79,000
94	UNMANNED SURFACE VEHICLE ENABLING CAPABILITIES Overestimation of product development Overestimation of support and management	176,261	161,712 -7,000 -7,549
95	GROUND BASED ANTI-SHIP MISSILE IOT&E delays	36,383	35,144 -1,239
96	LONG RANGE FIRES Test and evaluation delays	36,763	30,563 -6,200
97	CONVENTIONAL PROMPT STRIKE (CPS) Transfer from WP,N line 1 for additional testing	901,064	1,101,064 200,000
98	ASW SYSTEMS DEVELOPMENT - MIP	10,167	10,167
99	ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM Program increase - mobile manned/unmanned distributed lethality airborne network.	539 ork	10,539 10,000
100	ELECTRONIC WARFARE DEVELOPMENT - MIP	1,250	1,250
101	TRAINING SYSTEM AIRCRAFT	44,120	44,120
102	MARITIME TARGETING CELL Program increase - Maritime Targeting Cell-Afloat development	30,922	50,922 20,000
103	OTHER HELO DEVELOPMENT (MARINE CORPS) Product development excess to need Development support excess to need	101,209	54,739 -40,000 -6,470
104	OTHER HELO DEVELOPMENT (NAVY)	2,604	2,604
105	AV-8B AIRCRAFT - ENG DEV	8,263	8,263
106	STANDARDS DEVELOPMENT	4,039	4,039
107	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT Program increase - MH-60 upgrades	62,350	72,350 10,000
108	P-3 MODERNIZATION PROGRAM	771	771
109	WARFARE SUPPORT SYSTEM Program increase - sea-based UAS logistics demonstration Program increase	109,485	137,985 15,000 13,500
110	COMMAND AND CONTROL SYSTEMS	87,457	87,457
111	ADVANCED HAWKEYE Overestimation of TCID Program increase - enhanced L-band and UHF for E-2D	399,919	407,631 -12,288 20,000
112	H-1 UPGRADES	29,766	29,766
113	ACOUSTIC SEARCH SENSORS Program increase - sonobuoy modernization for high altitude anti-submarine w	51,531 arfare	62,031 10,500



R-1		Budget Request	Final Bill
114 \	/-22A Program increase - thermoplastics ice protection demonstration	137,597	147,597 10,000
115 /	AIR CREW SYSTEMS DEVELOPMENT	42,155	42,155
116 E	EA-18 Overestimation of warfare center REAM development Overestimation of contracted REAM development Block 2 development support unjustified growth	172,507	151,008 -8,066 -10,376 -3,057
117 E	ELECTRONIC WARFARE DEVELOPMENT DBD EMD delays	171,384	159,707 -11,677
118 E	EXECUTIVE HELO DEVELOPMENT	35,376	35,376
119 N	NEXT GENERATION JAMMER (NGJ)	40,477	40,477
	Program increase - advanced tactical data link Program increase - open modular navy multiband terminal	451,397	464,397 5,000 8,000
121 N	NEXT GENERATION JAMMER (NGJ) INCREMENT II Test and evaluation excess to need Rephase annualized program costs due to EMD delay Rephase EMD costs due to contract delay	250,577	170,002 -6,100 -10,000 -64,475
122 8	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING Overestimation of prime systems engineering contract	453,311	440,898 -12,413
124 5	SMALL DIAMETER BOMB (SDB)	52,211	52,211
125 \$	STANDARD MISSILE IMPROVEMENTS Navy requested realignment from WP,N line 7 for electronics unit obsolesce SM-6 Blk 1B EMD delay Unjustified request Overestimation of SM-6 Blk 1B management services Unjustified support cost growth due to prior-year realignments	418,187 cence	358,450 12,600 -23,000 -21,500 -11,846 -15,991
126 A	AIRBORNE MCM	11,368	11,368
	NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR SYSTEMS ENGINEERING Program increase - stratospheric balloon research	66,445	80,445 14,000
128 #	ADVANCED SENSORS APPLICATION PROGRAM (ASAP) Program increase	0	10,000 10,000
129 A	ADVANCED ABOVE WATER SENSORS Combat system integration ahead of need	115,396	110,293 -5,103
130 5	SSN-688 AND TRIDENT MODERNIZATION	93,435	93,435
131 A	AIR CONTROL	42,656	42,656
132 5	SHIPBOARD AVIATION SYSTEMS	10,442	10,442
133 (COMBAT INFORMATION CENTER CONVERSION	11,359	11,359
134	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	90,307	90,307
135 /	ADVANCED ARRESTING GEAR (AAG)	10,658	10,658



R-1	Budget Request	Final Bill
136 NEW DESIGN SSN Program increase - precision maneuvering unit	234,356	241,356 7,000
137 SUBMARINE TACTICAL WARFARE SYSTEM	71,516	71,516
138 SHIP CONTRACT DESIGN/ LIVE FIRE T&E	22,462	22,462
139 NAVY TACTICAL COMPUTER RESOURCES	4,279	4,279
140 MINE DEVELOPMENT	104,731	104,731
141 LIGHTWEIGHT TORPEDO DEVELOPMENT Project 3418 testing ahead of need Mod 2 phase II program delay Software Development - platform integration delay	229,668	196,294 -8,500 -15,559 -9,315
142 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	9,064	9,064
143 USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS OPF-M termination Marine Corps-requested transfer to line 155 for MCRISS II	62,329	34,337 -20,181 -7,811
144 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	9,319	9,319
145 JOINT STANDOFF WEAPON SYSTEMS	1,964	1,964
146 SHIP SELF DEFENSE (DETECT & CONTROL)	158,426	158,426
147 SHIP SELF DEFENSE (ENGAGE: HARD KILL)	47,492	47,492
148 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	125,206	125,206
149 INTELLIGENCE ENGINEERING	19,969	19,969
150 MEDICAL DEVELOPMENT Program increase - military dental research	6,061	18,061 12,000
151 NAVIGATION/ID SYSTEM Program increase - encrypted IFF for mode 5 deconfliction	45,262	53,262 8,000
154 SSN(X) Shipbuilder studies unjustified growth NSWC studies unjustified growth Management and support costs unjustified growth	361,582	321,828 -18,000 -13,804 -7,950
155 INFORMATION TECHNOLOGY DEVELOPMENT Marine Corps-requested transfer from line 143 for MCRISS II	22,663	30,474 7,811
156 INFORMATION TECHNOLOGY DEVELOPMENT Program increase - cyber digital twin development Program increase - actionable analytics and services for reliable maint Program increase - cyber supply chain risk management	282,138 tenance	298,638 5,000 5,000 6,500
157 ANTI-TAMPER TECHNOLOGY SUPPORT	8,340	8,340
158 TACAMO MODERNIZATION Overestimation of support	213,743	207,331 -6,412
159 CH-53K RDTE Expenditures below plan SDD actuals below plan	222,288	186,269 -24,499 -11,520



R-1		Budget Request	Final Bill
160	MISSION PLANNING	86,448	86,448
161	COMMON AVIONICS	81,076	81,076
162	SHIP TO SHORE CONNECTOR (SSC)	1,343	1,343
163	T-AO 205 CLASS	71	71
164	UNMANNED CARRIER AVIATION (UCA) Test and evaluation excess to need due to EDM delivery delays Prior year carryover Transfer from AP,N line 21 for two SDTA aircraft due to milestone C delays	220,404	264,853 -20,403 -25,000 89,852
165	JOINT AIR-TO-GROUND MISSILE (JAGM)	384	384
166	MULTI-MISSION MARITIME AIRCRAFT (MMA)	36,027	36,027
167	MULTI-MISSION MARITIME (MMA) INCREMENT III	132,449	132,449
168	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT & DEMONSTRATION ACV-R Phase II contract delay ACV-R test support ahead of need Program increase - advanced brake technology	103,236	90,898 -13,055 -1,283 2,000
169	JOINT LIGHT TACTICAL VEHICLE (JLTV) SYSTEM DEVELOPMENT & DEMONSTRATION	2,609	2,609
170	DDG-1000 Prior year underexecution	231,778	223,444 -8,334
171	COUNTERING ADVANCED CONVENTIONAL WEAPONS (CACW)	17,531	17,531
172	ISR & INFO OPERATIONS Prior year underexecution	174,271	171,204 -3,067
173	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	2,068	2,068
174	THREAT SIMULATOR DEVELOPMENT	22,918	22,918
175	TARGET SYSTEMS DEVELOPMENT	18,623	18,623
176	MAJOR T&E INVESTMENT Program increase - data security improvements	74,221	90,721 16,500
177	STUDIES AND ANALYSIS SUPPORT - NAVY	3,229	3,229
178	CENTER FOR NAVAL ANALYSES	45,672	45,672
180	TECHNICAL INFORMATION SERVICES	1,000	1,000
181	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT Program increase - naval research laboratory facilities SRM	124,328	144,328 20,000
182	STRATEGIC TECHNICAL SUPPORT	4,053	4,053
183	RDT&E SHIP AND AIRCRAFT SUPPORT	203,447	203,447
184	TEST AND EVALUATION SUPPORT Program increase - tactical edge networking payloads Program increase - future workforce innovation	481,975	492,975 10,000 1,000



R-1	Budget Request	Final Bill
185 OPERATIONAL TEST AND EVALUATION CAPABILITY	29,399	29,399
186 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT	27,504	27,504
187 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	9,183	9,183
188 MARINE CORPS PROGRAM WIDE SUPPORT	34,976	34,976
189 MANAGEMENT HQ - R&D	41,331	41,331
190 WARFARE INNOVATION MANAGEMENT	37,340	37,340
191 INSIDER THREAT	2,246	2,246
MANAGEMENT HEADQUARTERS (DEPARTMENTAL 192 SUPPORT ACTIVITIES)	2,168	2,168
196 F-35 C2D2 Prior year carryover for blk 4, test and evaluation	544,625	509,122 -35,503
197 F-35 C2D2 Prior year carryover for blk 4, test and evaluation	543,834	512,266 -31,568
198 MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS Prior year underexecution Blk 2 integration ahead of need Blk 2 testing ahead of need Blk 2 ILS ahead of need Program increase - MADIS radar Program increase - medium range intercept capability Program increase	99,860	99,209 -1,360 -4,134 -3,550 -2,007 5,000 3,800 1,600
199 COOPERATIVE ENGAGEMENT CAPABILITY (CEC) Antenna development unjustified growth	153,440	140,331 -13,109
200 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT Program increase - next generation strategic inertial measurement unit Program increase - multimodal biometric authentication	321,648	336,648 10,000 5,000
201 SSBN SECURITY TECHNOLOGY PROGRAM	62,694	62,694
202 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT Program increase - integration of four-tube launch system	92,869	97,869 5,000
203 NAVY STRATEGIC COMMUNICATIONS	51,919	51,919
204 F/A-18 SQUADRONS Next generation naval mission planning system insufficient justification Program increase - advanced digital video map computer Program increase - noise reduction technology Overestimation of DVMC-U Support costs excess to need ADVEW carryover	333,783	296,323 -10,000 10,000 4,000 -9,817 -20,000 -11,643
205 SURFACE SUPPORT Program increase - composite improvements for MK41 VLS	8,619	10,119 1,500
TOMAHAWK AND TOMAHAWK MISSION 206 PLANNING CENTER (TMPC)	122,834	122,834



R-1	Budget Request	Final Bill
207 INTEGRATED SURVEILLANCE SYSTEM Program increase - deployable surveillance systems	76,279	80,279 4,000
208 SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS	1,103	1,103
AMPHIBIOUS TACTICAL SUPPORT UNITS 209 (DISPLACEMENT CRAFT)	1,991	1,991
210 GROUND/AIR TASK ORIENTED RADAR (G/ATOR) GB1 BOA task order delays	92,674	84,074 -8,600
211 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	115,894	115,894
212 ELECTRONIC WARFARE (EW) READINESS SUPPORT	61,677	61,677
213 ANTI-RADIATION MISSILE IMPROVEMENT Program increase - solid fuel ramjet demonstration	59,555	84,555 25,000
214 SURFACE ASW COMBAT SYSTEM INTEGRATION	29,973	29,973
215 MK-48 ADCAP Program increase - MK-48 torpedo test equipment Overestimation of NUWC APB 6 software Reduce planned product development carryover	213,165	208,601 10,200 -5,764 -9,000
216 AVIATION IMPROVEMENTS	143,277	143,277
217 OPERATIONAL NUCLEAR POWER SYSTEMS	152,546	152,546
218 MARINE CORPS COMMUNICATIONS SYSTEMS Prior year underexecution Transfer from PMC Line 21 for small form factor acceleration	192,625	178,989 -16,636 3,000
COMMON AVIATION COMMAND AND 219 CONTROL SYSTEM (CAC2S)	12,565	12,565
MARINE CORPS GROUND COMBAT/ 220 SUPPORTING ARMS SYSTEMS Program increase - advanced batteries for cargo drones	83,900	93,700 9,800
221 MARINE CORPS COMBAT SERVICES SUPPORT Program increase - platform independent portable self-contained sense	27,794 or system	30,194 2,400
USMC INTELLIGENCE/ELECTRONIC 222 WARFARE SYSTEMS (MIP)	47,762	47,762
223 AMPHIBIOUS ASSAULT VEHICLE	373	373
224 TACTICAL AIM MISSILES	36,439	36,439
225 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	29,198	29,198
226 PLANNING AND DECISION AID SYSTEM (PDAS)	3,565	3,565
230 AFLOAT NETWORKS	49,995	49,995
231 INFORMATION SYSTEMS SECURITY PROGRAM	33,390	33,390
232 MILITARY INTELLIGENCE PROGRAM (MIP) ACTIVITIES	7,304	7,304
233 TACTICAL UNMANNED AERIAL VEHICLES	11,235	11,235
961	-/	

R-1		Budget Request	Final Bil
234	UAS INTEGRATION AND INTEROPERABILITY	16,409	16,409
235	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS Program increase - Marine Corps geospatial enterprise cloud capability re	51,192	59,792 8,600
	Program increase - Marine Corps geospatial enterprise cloud capability i	nodernization	8,000
236	MQ-4C TRITON	12,094	12,094
237	MQ-8 UAV	29,700	39,700
	Program increase - passive ELINT targeting capability		10,000
238	RQ-11 UAV	2,107	2,107
239	SMALL (LEVEL 0) TACTICAL UAS (STUASL0)	2,999	2,999
240	MULTI-INTELLIGENCE SENSOR DEVELOPMENT	49,460	49,460
241	UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP)	13,005	13,005
242	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT	2,000	2,000
243	RQ-4 MODERNIZATION	300,378	217,978
	Classified adjustment		-41,100
	IFC 4.4 ahead of need		-41,300
244	INTELLIGENCE MISSION DATA (IMD)	788	788
245	MODELING AND SIMULATION SUPPORT	10,994	10,994
246	DEPOT MAINTENANCE (NON-IF)	23,248	28,248
	Program increase - joint enterprise data interoperability for F-35 depots		5,000
247	MARITIME TECHNOLOGY (MARITECH)	3,284	3,284
999	CLASSIFIED PROGRAMS	2,021,376	2,407,376
	Classified adjustment		386,000
	RISK MANAGEMENT INFORMATION -	11,748	11,748
249	SOFTWARE PILOT PROGRAM		
	MARITIME TACTICAL COMMAND AND CONTROL (MTC2) - SOFTWARE PILOT PROGRAM	10,555	10,555
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY	26,922,225	27,964,807



OPEN AUTONOMOUS UNDERWATER VEHICLE SOFTWARE ARCHITECTURE

The agreement directs the Secretary of the Navy to assess the feasibility and advisability of: (1) establishing one or more government-reference open-system architecture standards, such as the OpenAUV and PCX architectures, and/or commercial open-system architecture standards as the Navy standard or standards for Unmanned Underwater Vehicles (UUVs) and Unmanned Surface Vessels (USVs); (2) accelerating such standard or standards on Razorback and Snakehead UUVs; (3) maximizing full-and-open competition on UUV and USV solicitations with such standard or standards prescribed; and (4) requiring USV and UUV program managers to review Navy's OpenAUV lessons learned, incorporate best practices, and engage in technical exchanges with the performers. The Secretary is directed to submit this assessment to the congressional defense committees not later than 120 days after the enactment of this Act.

AUTOMATED TEST AND RE-TEST

The agreement provides \$120,000,000 to accelerate implementation of the Navy's Automated Test and Re-Test (ATRT) Commercialization Plan submitted in October 2022. This activity shall support all Navy Program Executive Offices, System Commands, and Warfare Centers including Navy rapid capability offices. Funding provided under the newly created ATRT Enterprise Rapid Capability line shall be executed by Program Executive Office Integrated Warfare Support to perfect and scale virtualized systems of systems, automated test and analysis, automated certification, rapid integration, deployment of integrated warfare systems with edge analytics, and data collection as described in Navy's ATRT Commercialization Plan. The Secretary of the Navy is directed to submit to the House and Senate Defense Appropriations Subcommittees, not later than 60 days after the enactment of this Act, a detailed plan for implementation and resourcing of this capability consistent with the ATRT Commercialization Plan and in adherence to Small Business Innovation Research program regulations and requirements.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

The agreement provides \$47,340,416,000 for Research, Development, Test and Evaluation, Air Force, as follows:

(INSERT PROJECT LEVEL TABLE) & (Insert 98 A-0

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [in thousands of dollars]

R-1	E	Budget Request	Final Bill
1	DEFENSE RESEARCH SCIENCES	401,486	381,386
•	Transfer to RDT&E,SF line 1 for space unique S&T	,	-20,100
2	UNIVERSITY RESEARCH INITIATIVES	182,372	185,472
	Transfer to RDT&E,SF line 2 for space unique S&T		-14,400
	Program increase - intelligent 2D sensors		5,000
	Program increase - behavioral health interventions		7,500
	Program increase - health and science multidomain operations		5,000
3	FUTURE AF CAPABILITIES APPLIED RESEARCH	90,713	83,440
	Transfer to RDT&E,SF line 4 - space unique S&T		-7,273
	UNIVERSITY AFFILIATED RESEARCH CENTER (UARC) -		
4	TACTICAL AUTONOMY	8,018	8,018
5	MATERIALS	142,325	264,625
	Program increase - accelerated material development for high mach capabilities		10,000
	Program increase - scale titanium additive manufacturing for critical airframe struc	tures	10,000
	Program increase - far forward human performance, sustainment, and resilience		10,000
	Program increase - synthetic biology manufacturing of critical materials		9,800
	Program increase - nano-bio technologies		7,500
	Program increase - advanced composites in hypersonics research		5,000
	Program increase - biomaterials for ground infrastructure reinforcement		5,000
	Program increase - brain health biomarker and sensor technology		5,000
	Program increase - composites for electromagnetic interference shielding		4,000
	Program increase - continuous composite 3D printing for		
	topologically optimized structures		3,000
	Program increase - continuous fiber 3D printing for hypersonic applications		10,000
	Program increase - high energy synchrotron x-ray research		9,000
	Program increase - infrared meta-material coatings		2,500
	Program increase - manufactured radio frequency photonic devices		
	and systems for airborne platforms		4,000
	Program increase - minority leaders research collaboration program		9,000
	Program increase - multi-functional protective materials		10,000
	Program increase - scanning and additive manufacturing Program increase - thermal protection for hypersonic vehicles		1,500 7,000
	Program increase - thermal protection for hypersonic vehicles		7,000
6	AEROSPACE VEHICLE TECHNOLOGIES	161,268	198,768
	Program increase - collaborative hypersonic demonstration		11,000
	Program increase - low-cost rapid aerospace fabrication technology		6,500
	Program increase - hypersonic air breather manufacturing industrial		40.000
	base expansion		10,000
	Program increase - full-scale determinant assembly for hypersonic		5,000
	airframe structures Program increase - aerospace engineering systems security integration		5,000
7	HUMAN EFFECTIVENESS APPLIED RESEARCH	146,921	150,921
-	Program increase - critical care air transport teams		3,000
	Program increase - project refuel		1,000

R-1		Budget Request	Final Bill
8	AEROSPACE PROPULSION	184,867	246,867
	Program increase - rotary machines with advanced magnetic materials		10,000
	Program increase - highly electrified aircraft		5,000
	Program increase - battery additives		5,000
	Program increase - advanced aerospace fuels for hypersonic propulsion		7,500
	Program increase - compact scramjet testing		7,000
	Program increase - emergency power and cooling thermal		
	management growth		10,000
	Program increase - high voltage aircraft power		2,000
	Program increase - improving reliability of electrical systems for		
	future aircraft		3,000
	Program increase - low-cost small turbine engine		12,500
9	AEROSPACE SENSORS	216,269	248,269
	Program increase - quantum optoelectronic materials and devices		6,000
	Program increase - hardware and embedded systems security,		
	assurance, and trust		9,000
	Program increase - zero-trust environment for semiconductor technology		2,000
	Program increase - cyber kinetic combat environment		15,000
	SCIENCE AND TECHNOLOGY MANAGEMENT - MAJOR		
11	HEADQUARTERS ACTIVITIES	10,303	10,303
12	CONVENTIONAL MUNITIONS	160,599	160,599
	Excess growth		-10,000
	Program increase - convergence technology research		10,000
13	DIRECTED ENERGY TECHNOLOGY	129,961	118,452
	Excess to need	ŕ	-11,509
14	DOMINANT INFORMATION SCIENCES AND METHODS	182,076	352,576
	Program increase - photonic chips for quantum computing	,-	10,000
	Program increase - heterogeneously integrated photonics and		
	electronic technologies		10,000
	Program increase - quantum entanglement distribution		10,000
	Program increase - technology innovation collaborative		2,000
	Program increase - secure quantum computing facility		20,000
	Program increase - cyberspace dominance technology		10,000
	Program increase - future flag JADC2 operational experimentation testbed		25,000
	Program increase - quantum cryptography		10,000
	Program increase - ion trap quantum computing		15,000
	Program increase - internet of things living ecosystem		2,500
	Program increase - C-UAS high speed imaging technology		2,000
	Program increase - multi-domain RF spectrum environment		10,000
	Program increase - photonic quantum computing		4,000
	Program increase - quantum network testbed		10,000
	Program increase - UAS traffic management advanced air mobility enhancemen	ts	10,000
	Program increase - university-based quantum materials applied research		20,000
15	FUTURE AF INTEGRATED TECHNOLOGY DEMOS	255,855	175,706
	Unjustified growth		-43,276
	Program increase - automated geospatial intelligence algorithms		9,000
	Program increase - mobile autonomous robotic swarms		2,500
	Transfer to RDT&E,SF line 6 for space unique S&T		-48,373

R-1		Budget Request	Final Bill
16	ADVANCED MATERIALS FOR WEAPON SYSTEMS	30,372	61,839
	Transfer to RDT&E,SF line 6 for space unique S&T		-3,033
	Program increase - polymer printing technology		5,000
	Program increase - beryllium manufacturing		4,000
	Program increase - advanced carbon materials for sensor and		
	aerospace platform protection		5,000
	Program increase - metals affordability initiative		2,500
	Program increase - certification for advanced materials		18,000
17	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T)	10,478	10,478
18	ADVANCED AEROSPACE SENSORS	48,046	45,846
	Surface targets sense-making excess to need		-5,000
	Multi-Spectrum Sensing Demonstration excess to need		-2,200
	Program increase - airborne early warning pod digital radar technology		5,000
19	AEROSPACE TECHNOLOGY DEV/DEMO	51,896	138,758
	Flight vehicle tech integration lacks air worthiness process modernization		-6,504
	High speed vehicle tech design work excess to need		-3,266
	Program increase - alternative PNT for hypersonics		9,500
	Program increase - reentry systems test bed		5,000
	Program increase - digital engineering test bed		10,000
	Program increase - hybrid electric propulsion		30,000
	Program increase - autonomous air to air refueling		2,000
	Program increase - bonded unitized composites large scale		10.000
	structural demonstration		10,000
	Program increase - long duration, broad-area, multi-sensor capability Program increase - low-profile laser beam director for high speed aircraft		28,132 2,000
20	AEROSPACE PROPULSION AND POWER TECHNOLOGY	56,789	97,989
20		50,709	6,200
	Program increase - infrastructure upgrade for hypersonic booster tests Program increase - altitude chamber infrastructure upgrades		18,000
	Program increase - hybrid rocket engine development		5,000
	Program increase - HTPEM hydrogen fuel cells		2,000
	Program increase - liquid engine for hypersonic testing initiatives		5,000
	Program increase - silicon carbide research		5,000
21	ELECTRONIC COMBAT TECHNOLOGY	32,510	32,510
22	SCIENCE & TECHNOLOGY FOR NUCLEAR RE-ENTRY SYSTEMS	70,321	70,321
	MANUADA OF CURVEU LANCE OVOTEM (MOCO)		
23	MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	2	2
24	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY	45 502	20.784
24	DEVELOPMENT Transfer to BDT SE SE line 6 for cases unique SST	15,593	29,781
	Transfer to RDT&E,SF line 6 for space unique S&T		-812 5.000
	Program increase - tactical personal area network Program increase - airborne augmented reality for increased pilot		5,000
	training production		10,000
25	CONVENTIONAL WEAPONS TECHNOLOGY	132,311	132,311
26	ADVANCED WEAPONS TECHNOLOGY	102,997	103,997
_0	Program increase - LIDAR CUAS automated target recognition	,,-	5,000
	Unjustified growth		-4,000
	- ,		.,



R-1		Budget Request	Final Bill
27	MANUFACTURING TECHNOLOGY PROGRAM	44,422	187,967
	Transfer to RDT&E,SF line 6 for space unique S&T		-1,955
	Program increase - metal additive manufacturing		8,500
	Program increase - thermoplastic flight control components for		
	advanced manned and unmanned platforms		6,000
	Program increase - rare gas cryogenic distillation and purification		5,000
	Program increase - classified additive manufacturing		20,000
	Program increase - vertical integration of scramjet supply chain		15,000
	Program increase - gallium oxide for high power electronics		10,000
	Program increase - aerospace film technology manufacturing		4,000
	Program increase - aerospace films for increased operational range		5,000
	Program increase - operationalizing additive manufacturing for		40.500
	sustainment and modernization research		19,500
	Program increase - agile additive manufacturing for advanced		5 000
	hypersonic systems technology		5,000
	Program increase - virtual, augmented, and mixed reality readiness		8,000
	Program increase - alloy additive manufacturing		3,000 3,000
	Program increase - additive manufactured lightweight UAV skins		5,000
	Program increase - AI robotic manufacturing Program increase - composites for advanced air mobility		7,000
	Program increase - expansion of thermoplastic composites and		7,000
	alternatives to critical minerals		7,500
	Program increase - glass packaging solutions for miniaturization		2,000
	Program increase - hypersonics development to accelerate		2,000
	production readiness		2.000
	Program increase - MRO advanced process technology development		5,000
	Program increase - needled thermoplastic composite textiles for low-		0,000
	cost, complex aerostructures		5,000
	BATTLESPACE KNOWLEDGE DEVELOPMENT AND		
28	DEMONSTRATION	37,779	63,279
	Program increase - antenna form factor development for assured		
	communications and networks		20,000
	Program increase - B-52 agile pod capability		2,000
	Program increase - nationwide integration of time resiliency for operations		1,000
	Program increase - programmable computing fabric networks		2,500
29	CONTROL AND REPORTING CENTER (CRC)	2,005	0
	Unjustified request		-2,005
20	MODULAR ADVANCED MISSILE	105,238	0
30	Program decrease	105,238	-105,238
	riogiam declease		-105,236
31	INTELLIGENCE ADVANCED DEVELOPMENT	6,237	6,237
32	COMBAT IDENTIFICATION TECHNOLOGY	21,298	15,922
32	- 	21,290	-5,376
	Air target identification unjustified growth		-5,576
33	NATO RESEARCH AND DEVELOPMENT	2,208	2,208
34	INTERCONTINENTAL BALLISTIC MISSILE - DEM/VAL	45,319	54,914
	Long range planning unjustified growth	,	-405
	Program increase - advanced ballistic aeroshells		3,000
	Program increase - AFGSC modernization and enhancement of		5,230
	mission capabilities		7,000
25	NC2 ADVANCED CONCERTS	40.044	F 044
35	NC3 ADVANCED CONCEPTS	10,011	5,311
	NC3 underexecution		-4,700



R-1		Budget Request	Final Bill
37	ADVANCED BATTLE MANAGEMENT SYSTEM (ABMS)	500,575	468,497
	Architecture Design and Evaluation excess to need	-	-7,078
	CBC2 ahead of need		-15,000
	AEN ahead of need		-10,000
38	ADVANCED ENGINE DEVELOPMENT	595,352	280,000
•	Program increase - engine technologies	333,332	280,000
	Transfer to line 38a for NGAP		-595,352
38a	NEXT GENERATION ADAPTIVE PROPULSION	0	595,352
50 2	Transfer from line 38 for NGAP	v	595,352
39	NC3 COMMERCIAL DEVELOPMENT & PROTOTYPING	78,799	68,799
33	Prototype Terminals carryover	78,799	-10,000
	Trototype Terminals carryover		-10,000
40	DEPT OF THE AIR FORCE TECH ARCHITECTURE	2,620	0
	Air Force requested transfer to line 57		-2,620
41	E-7	681,039	881,039
	Program increase - E-7	·	200,000
42	AFWERX PRIME	83,336	100,336
	PMA ahead of need	20,000	-3,000
	Program increase - Agility Prime		20,000
43	LONG RANGE STRIKE - BOMBER	2,984,143	2,984,143
44	RAPID DEFENSE EXPERIMENTATION RESERVE (RDER)	154,300	64,827
	Program decrease	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-89,473
45	DIRECTED ENERGY PROTOTYPING	1,246	1,246
46	HYPERSONICS PROTOTYPING	150,340	35,000
	Excess to plan	,	-115,340
	HYPERSONICS PROTOTYPING - HYPERSONIC ATTACK CRUISE		
47	MISSILE (HACM)	381,528	342,728
	Unjustified request	,	-41,800
	Program increase - accelerate air-breathing hypersonic		
	manufacturing AUR maturation		3,000
48	PNT RESILIENCY, MODS, AND IMPROVEMENTS	18,041	18,041
49	ADVANCED TECHNOLOGY AND SENSORS	27,650	22,616
	Imaging and targeting support unjustified growth		-5,034
50	SURVIVABLE AIRBORNE OPERATIONS CENTER (SAOC)	888,829	744,253
	Test and evaluation excess to need		-12,657
	Management services overestimation		-15,919
	Excess test aircraft		-116,000
51	TECHNOLOGY TRANSFER	26,638	37,138
	Program increase - innovative solutions to enhance warfighter readiness		2,000
	Program increase - laboratory technology transfer		4,000
	Program increase - partnership intermediary program		2,500
	Program increase - autonomous reduced-emissions supply delivery UAS		2,000

R-1		Budget Request	Final Bill
	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM		
52	(HDBTDS) PROGRAM	19,266	19,266
53	CYBER RESILIENCY OF WEAPON SYSTEMS-ACS	37,121	37,121
55	JOINT TRANSPORTATION MANAGEMENT SYSTEM (JTMS)	37,026	37,026
56	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D	31,833	23,862
	Unjustified request		-7,971
57	TECH TRANSITION PROGRAM	210,806	239,026
	Air Force requested transfer from line 40		2,620
	Program decrease - AFFOA textile research		-1,000
	Program increase - reconfigurable hybrid electric rotorcraft		10,000
	Program increase - operational additive manufacturing capabilities		14,800
	Program increase - capability for advanced air mobility		9,800
	Blended Wing Body excess to need		-8,000
58	OPERATIONAL ENERGY AND INSTALLATION RESILIENCE	46,305	24,100
	Program decrease - energy and climate resilience	·	-21,805
	PMA costs excess to need		-400
59	AIR REFUELING CAPABILITY MODERNIZATION	19,400	15,400
	Unjustified support cost growth	·	-4,000
59a	NEXT GENERATION AIR-REFUELING SYSTEM	0	7,928
	Air Force requested transfer from line 92		7,928
61	NEXT GENERATION AIR DOMINANCE	2,326,128	2,326,128
62	AUTONOMOUS COLLABORATIVE PLATFORMS	118,826	113,513
	Air Force requested transfer to line 112 - VENOM test support		-17,813
	Program increase - semiautonomous collaborative platforms		12,500
63	COMBAT IDENTIFICATION	1,902	1,902
64	THREE DIMENSIONAL LONG-RANGE RADAR (3DELRR)	19,763	14,393
	Funding ahead of need	·	-5,370
65	AIRBASE AIR DEFENSE SYSTEMS (ABADS)	78,867	69,302
	Prototype development previously funded		-9,565
66	WAR RESERVE MATERIEL - AMMUNITION	8,175	8,175
68	COMMON DATA LINK EXECUTIVE AGENT (CDL EA)	25,157	25,157
69	MISSION PARTNER ENVIRONMENTS	17,727	17,727
72	RAPID SUSTAINMENT MODERNIZATION (RSM)	43,431	78,431
	Program increase - agile manufacturing robot		9,000
	Program increase - additive manufacturing digital technology maturation		3,000
	Program increase - 3D interactive instructions		3,000
	Program increase - digital part transformation to support operational readiness		20,000
73	INTEGRATED PRIMARY PREVENTION	9,364	9,364

R-1		Budget Request	Final Bill
74	CONTRACTING INFORMATION TECHNOLOGY SYSTEM Excess growth	28,294	23,710 -4,584
75	U.S. SPACE COMMAND RESEARCH AND DEVELOPMENT SUPPORT Underexecution	14,892	8,892 -6,000
76	FUTURE ADVANCED WEAPON ANALYSIS & PROGRAMS	9,757	9,757
77	PNT RESILIENCY, MODS, AND IMPROVEMENTS R-EGI FFRDC support unjustified growth	163,156	161,156 -2,000
78	NUCLEAR WEAPONS SUPPORT	45,884	45,884
79	ELECTRONIC WARFARE DEVELOPMENT Program increase - Al and machine learning enabled electronic warfare systems	13,804	23,804 10,000
80	TACTICAL DATA NETWORKS ENTERPRISE Air Force requested transfer from line 139 for SPoC radio Program increase - software programmable open mission systems	74,023	85,523 5,000
0.4	compliant radios	40.005	6,500
81	PHYSICAL SECURITY EQUIPMENT	10,605	10,605
82	ARMAMENT/ORDNANCE DEVELOPMENT Growth exceeds inflation rate	5,918	5,202 -716
83	SUBMUNITIONS	3,345	3,345
84	AGILE COMBAT SUPPORT Program increase - PFAS destruction technology Program increase - arctic campaigning Program increase - arctic capable prepositioned shelter Program increase - automated heavy machinery	21,967	56,467 15,000 4,000 5,500 10,000
85	LIFE SUPPORT SYSTEMS	39,301	39,301
86	COMBAT TRAINING RANGES Program increase - joint pacific Alaska range complex	152,569	158,569 6,000
87	LONG RANGE STANDOFF WEAPON Air Force requested transfer to OM,AF line 11R Weapons Development carryover	911,406	882,633 -20,000 -8,773
88	ICBM FUZE MODERNIZATION	71,732	71,732
89	JOINT TACTICAL NETWORK CENTER (JTNC)	2,256	2,256
90	JOINT TACTICAL NETWORK (JTN)	452	452
91	OPEN ARCHITECTURE MANAGEMENT	36,582	36,582
92	NEXT GENERATION AIR-REFUELING SYSTEM Air Force requested transfer to line 59a	7,928	0 -7,928

R-1		Budget Request	Final Bill
93	ADVANCED PILOT TRAINING EMD carryover	77,252	74,980 -2.272
		40.000	_, _
94	HH-60W	48,268	40,976
	Support costs excess to need		-892
	Capability Upgrades early to need		-6,400
95	GROUND BASED STRATEGIC DETERRENT EMD	3,746,935	4,478,585
	Transfer from MP,AF line 3		539,300
	Air Force Requested transfer to AP,AF line 61 for SLP-A capability		-7,650
	Program increase - GBSD construction and prototyping acceleration		100,000
	Program increase - GBSD industrial base support		100,000
96	F-15 EPAWSS	13,982	13,982
97	ISOLATED PERSONNEL SURVIVABILITY AND RECOVERY	56,225	56,225
98	STAND IN ATTACK WEAPON	298,585	228,091
	Aircraft integration delays		-13,234
	SiAW Development carryover		-57,260
99	FULL COMBAT MISSION TRAINING	7,597	7,597
100	MEDICAL C-CBRNE PROGRAMS	2,006	2,006
102	ENDURANCE UNMANNED AERIAL VEHICLES	30,000	30,000
103	KC-46A TANKER SQUADRONS	124,662	86,864
	TOLD execution delays		-3,214
	KC-46 test funding requested ahead of need		-7,384
	LTTAMS carryover		-10,000
	BTAR carryover		-3,400
	Trainer development funding requested ahead of need		-13,800
104	VC-25B	490,701	133,001
	Funding ahead of need		-357,700
105	AUTOMATED TEST SYSTEMS	12,911	12,911
106	TRAINING DEVELOPMENTS	1,922	1,248
	Management services programming error	.,	-674
1062	OVER-THE-HORIZON BACKSCATTER RADAR	0	489,855
1004	Air Force requested transfer from line 158	v	424,855
	Program increase - ARCHER		10,000
	Program increase - over the horizon radar capability acceleration		55,000
107	THREAT SIMULATOR DEVELOPMENT	16,626	16,626
108	MAJOR T&E INVESTMENT	31,143	31,143
400	DAND DDG (FCT AID FORCE	20.202	
109	RAND PROJECT AIR FORCE Unjustified growth	38,398	32,176 -6,222
4			
110	SMALL BUSINESS INNOVATION RESEARCH Programming error	1,466	0 -1,466



R-1	Budget Request	Final Bill
111 INITIAL OPERATIONAL TEST & EVALUATION	13,736	13,736
112 TEST AND EVALUATION SUPPORT Air Force requested transfer from line 62 for VENOM test support Air Force requested realignment for Civ Pay	913,213	946,026 17,813 15,000
113 ACQ WORKFORCE- GLOBAL VIG & COMBAT SYS	317,901	317,901
114 ACQ WORKFORCE- GLOBAL REACH	541,677	541,677
115 ACQ WORKFORCE- CYBER, NETWORK, & BUS SYS Air Force requested realignment for Civ Pay	551,213	536,513 -14,700
117 ACQ WORKFORCE- CAPABILITY INTEGRATION Air Force requested realignment for Civ Pay	243,780	273,780 30,000
118 ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY Air Force requested realignment for Civ Pay	109,030	77,030 -32,000
119 ACQ WORKFORCE- NUCLEAR SYSTEMS	336,788	336,788
120 MANAGEMENT HQ - R&D Air Force requested realignment for Civ Pay	5,005	6,705 1,700
FACILITIES RESTORATION AND MODERNIZATION - TEST AND 121 EVALUATION SUPPORT Program increase - infrastructure improvements	87,889	116,389 28,500
122 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT	35,065	35,065
123 REQUIREMENTS ANALYSIS AND MATURATION Program increase - enterprise digital transformation with commercial physics simulation	89,956	111,456 9,000
Program increase - Global Strike Command technology transition and innovation		12,500
124 MANAGEMENT HQ - T&E	7,453	7,453
COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS 126 (C4) - STRATCOM Program increase - NC3 REACH Program increase - NC3 network sensor demonstration	20,871	45,871 10,000 15,000
127 ENTEPRISE INFORMATION SERVICES (EIS)	100,357	100,357
128 ACQUISITION AND MANAGEMENT SUPPORT Program increase - academic cybersecurity center support Program increase - document generation platform Program increase - digital-first ecosystem Program increase - file rights management	20,478	59,478 10,500 11,500 9,000 3,000
Program increase - airworthiness of safety-critical embedded software		5,000
128a DIGITAL TRANSFORMATION OFFICE Program increase - digital engineering enabled workforce development Program increase - digital transformation hub Program increase - digital transformation office	0	25,700 7,000 6,000 9,700
Program increase - digital transformation digital technology maturation and adoption		3,000



R-1	Budget Request	Final Bill
129 GENERAL SKILL TRAINING Historic underexecution	796	0 -796
132 INTERNATIONAL ACTIVITIES	3,917	3,917
134 SPECIALIZED UNDERGRADUATE FLIGHT TRAINING ARP previously funded	41,464	26,564 -14,900
135 BATTLE MGMT COM & CTRL SENSOR DEVELOPMENT	40,000	40,000
136 WIDE AREA SURVEILLANCE	8,018	8,018
137 AGILE COMBAT SUPPORT	5,645	5,645
139 F-35 C2D2 Support costs excess to need Air Force requested transfer to line 80 for SPoC radio	1,275,268	1,268,275 -1,993 -5,000
140 AF INTEGRATED PERSONNEL AND PAY SYSTEM (AF-IPPS)	40,203	40,203
141 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	49,613	49,613
142 FOREIGN MATERIEL ACQUISITION AND EXPLOITATION	93,881	93,881
143 HC/MC-130 RECAP RDT&E Communications Modernization Phase II early to need	36,536	33,436 -3,100
144 NC3 INTEGRATION	22,910	22,910
145 B-52 SQUADRONS AEHF contract award delay RMP EMD previously funded Quad Crew delays Air Force requested transfer from AP,AF line 21 Program increase - B-52 in-flight networking pod Program increase - innovative projects for B-52 modernization	950,815	976,193 -9,548 -9,061 -2,030 14,017 10,000 22,000
146 AIR-LAUNCHED CRUISE MISSILE (ALCM)	290	290
147 B-1B SQUADRONS	12,619	12,619
148 B-2 SQUADRONS MDU-R execution delays	87,623	76,423 -11,200
149 MINUTEMAN SQUADRONS Program increase - multi-domain command and control Program increase - software modernization for air logistics	33,237	43,237 5,000 5,000
150 WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	24,653	24,653
151 SERVICE SUPPORT TO STRATCOM - GLOBAL STRIKE	7,562	7,562
153 ICBM REENTRY VEHICLES	475,415	475,415
155 MH-139A	25,737	25,737

R-1		Budget Request	Final Bill
REGION	SECTOR OPERATION CONTROL CENTER		
156 MODERI	NIZATION PROGRAM	831	831
157 NORTH	WARNING SYSTEM (NWS)	102	0
Progra	mming error	•	-102
158 OVER-TI	HE-HORIZON BACKSCATTER RADAR	428,754	0
Air For	ce requested transfer to line 106a		-424,855
OTHR	MITRE excess to need		-3,899
159 VEHICLE	ES AND SUPPORT EQUIPMENT - GENERAL	15,498	10,498
Excess	to need		-5,000
160 MQ-9 UA	v	81,123	81,123
161 JOINT C	OUNTER RCIED ELECTRONIC WARFARE	2,303	2,303
162 MULTI-P	LATFORM ELECTRONIC WARFARE EQUIPMENT	7,312	14,312
Progra	m increase - cognitive electronic warfare machine learning		7,000
164 F-16 SQ	JADRONS	98,633	111,753
-	m increase - data bus cybersecurity		10,000
	cess to need		-100
	ode 5 excess to need	•	-100
	radar excess to need		-100
	excess to need ITRS excess to need		-100
	e carryover		-100 -1,380
	m increase - lithium battery replacement for F-16 hydrazine		-1,360
_	ency power units		5,000
165 F-15E SC	QUADRONS	50,965	41,815
GPS M	-Code ahead of need		-18,550
Progra	m increase - electrical testing equipment		9,400
166 MANNE	DESTRUCTIVE SUPPRESSION	16,543	13,322
Cost sa	avings		-3,221
167 F-22A S		725,889	715,984
	m increase - cybersecurity of serial data bus		15,000
	Enhancements DT/OT early to need		-12,225
	xcess to need Modernization HW development early to need		-7,180 -5,500
	•		
168 F-35 SQ		97,231	90,749
QRIP	ontract award delay		-6,482
169 F-15EX		100,006	104,506
Prograi	n increase - aluminum microtube heat exchangers		4,500
170 TACTICA	AL AIM MISSILES	41,958	41,958
171 ADVANC	ED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	53,679	53,679
172 COMBA	TRESCUE - PARARESCUE	726	726
173 E-11A		64,888	64,888

R-1	Budget Request	Final Bill
174 AF TENCAP	25,749	25,749
175 PRECISION ATTACK SYSTEMS PROCUREMENT	11,872	11,872
176 COMPASS CALL Test and evaluation underexecution	66,932	64,932 -2,000
177 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM Program increase - additive manufacturing for aircraft sustainment	55,223	60,223 5,000
178 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)	132,937	132,937
179 SMALL DIAMETER BOMB (SDB) Program increase - precise navigation	37,518	40,518 3,000
180 AIR & SPACE OPERATIONS CENTER (AOC)	72,059	72,059
181 CONTROL AND REPORTING CENTER (CRC)	17,498	17,498
183 AFSPECWAR - TACP	2,106	2,106
185 COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	72,010	72,010
186 THEATER BATTLE MANAGEMENT (TBM) C4I	6,467	6,467
ELECTRONIC WARFARE INTEGRATED REPROGRAMMING 187 (EWIR)	10,388	10,388
188 TACTICAL AIR CONTROL PARTY-MOD Program increase - man-portable tactical laser communications	10,060	25,060 15,000
189 DCAPES Increment 2B delays	8,233	6,941 -1,292
190 AIR FORCE CALIBRATION PROGRAMS	2,172	2,172
192 NATIONAL TECHNICAL NUCLEAR FORENSICS	2,049	2,049
193 SEEK EAGLE	33,478	33,478
195 WARGAMING AND SIMULATION CENTERS	11,894	11,894
197 DISTRIBUTED TRAINING AND EXERCISES	3,811	3,811
198 MISSION PLANNING SYSTEMS Excess to need	96,272	86,286 -9,986
199 TACTICAL DECEPTION Program increase - radar modeling	26,533	36,533 10,000
201 DISTRIBUTED CYBER WARFARE OPERATIONS Access/Infrastructure unjustified growth	50,122	41,622 -8,500
202 AF DEFENSIVE CYBERSPACE OPERATIONS IDCDS Development unjustified request	113,064	63,864 -49,200
208 INTEL DATA APPLICATIONS	967	967



R-1		Budget Request	Final Bill
209	GEOBASE	1,514	1,514
211	CYBER SECURITY INTELLIGENCE SUPPORT	8,476	8,476
218	AF MULTI-DOMAIN NON-TRADITIONAL ISR BATTLESPACE AWARENESS	2,890	2,890
219	E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC) SIL ahead of need Program increase - next generation satellite communication capabilities	39,868	42,368 -5,000 7,500
220	EIT CONNECT Enterprise IT Diverse Data-Routing Network unjustified request	32,900	8,225 -24,675
221	CYBERSPACE OPERATIONS SYSTEMS	4,881	4,881
222	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN) Global ASNT Inc 2 previously funded	33,567	31,908 -1,659
223	HIGH FREQUENCY RADIO SYSTEMS Program support costs unjustified request Test assets excess to need	40,000	27,300 -5,000 -7,700
224	INFORMATION SYSTEMS SECURITY PROGRAM	95,523	95,523
226	ALL DOMAIN COMMON PLATFORM	71,296	71,296
227	JOINT MILITARY DECEPTION INITIATIVE	4,682	4,682
228	STRATEGIC MISSION PLANNING & EXECUTION SYSTEM (SMPES)	64,944	64,944
230	AIRBORNE SIGINT ENTERPRISE AFSA previously funded Program increase - special projects Underexecution	108,947	113,431 -2,202 9,000 -2,314
231	COMMERCIAL ECONOMIC ANALYSIS	4,635	4,635
234	C2 AIR OPERATIONS SUITE - C2 INFO SERVICES	13,751	13,751
235	CCMD INTELLIGENCE INFORMATION TECHNOLOGY	1,660	1,660
236	ISR MODERNIZATION & AUTOMATION DVMT (IMAD) Unjustified growth	18,680	15,180 -3,500
237	GLOBAL AIR TRAFFIC MANAGEMENT (GATM)	5,031	5,031
238	CYBER SECURITY INITIATIVE Integrated sensor collection development ahead of need	301	0 -301
239	WEATHER SERVICE Program increase - Air Force weather transformation Program increase - machine learning global weather forecasting Program increase - weather wing data migration	26,329	51,329 10,000 6,000 9,000



R-1		Budget Request	Final Bill
	AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM		
240	(ATCALS)	8,751	26,751
	Program increase - infill radars for wind farm coverage		3,000
	Program increase - mobile air traffic surveillance system		15,000
41	AERIAL TARGETS	6,915	6,915
44	SECURITY AND INVESTIGATIVE ACTIVITIES	352	352
45	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	6,930	6,930
46	INTEGRATED BROADCAST SERVICE (IBS)	21,588	18,540
	Unjustified growth	,	-3,048
47	DRAGON U-2	16,842	16,842
48	AIRBORNE RECONNAISSANCE SYSTEMS	43,158	56,158
	Agile ISR PMA costs excess to need	, , , ,	-2,000
	Program increase - persistent wide-area moving target engagement		15,000
49	MANNED RECONNAISSANCE SYSTEMS	14,330	14,330
50	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	88,854	88,854
51	RQ-4 UAV	1,242	1,242
52	NETWORK-CENTRIC COLLABORATIVE TARGETING	12,496	12,496
53	NATO AGS	2	2
54	SUPPORT TO DCGS ENTERPRISE	31,589	33,589
	Program increase - computer vision platform for high-altitude imagery object re-identification		2,000
	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND		
55	ARCHITECTURES	15,322	15,322
56	RAPID CYBER ACQUISITION	8,830	8,830
57	PERSONNEL RECOVERY COMMAND & CTRL (PRC2)	2,764	2,764
58	INTELLIGENCE MISSION DATA (IMD)	7,090	7,090
59	C-130 AIRLIFT SQUADRON	5,427	6,427
	Program increase - infrared suppressor system modification testing		1,000
60	C-5 AIRLIFT SQUADRONS (IF)	29,502	28,286
	Early to need		-1,216
61	C-17 AIRCRAFT (IF)	2,753	2,753
62	C-130J PROGRAM	19,100	25,772
	Program increase - aerial delivery of fire suppression		5,000
	Program increase - non-recurring engineering for polar airlift aircraft		5,000
	Block 8.1 excess to need		-2,900
	MILSATCOM carryover		-428
63	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)	5,982	3,982
	Excess growth		-2,000

R-1		Budget Request	Final Bill
264	KC-135S	51,105	72,587
	COMM 2 crypto delay	-,	-1,771
	Program increase - intelligent gateway		19,100
	Program increase - multi-function sensor		15,000
	CCR early to need		-5,182
	HFM early to need		-1,415
	Winglets early to need		-4,250
265	CV-22	18,127	17,127
	Core Avionics carryover	·	-1,000
266	SPECIAL TACTICS / COMBAT CONTROL	9,198	7,977
	M2M Software delay		-1,221
268	LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	17,520	17,520
269	AF LVC OPERATIONAL TRAINING (LVC-OT)	25,144	22,144
	Direct Mission Support previously funded		-3,000
270	OTHER FLIGHT TRAINING	2,265	2,265
272	JOINT PERSONNEL RECOVERY AGENCY	2,266	2,266
273	CIVILIAN COMPENSATION PROGRAM	4,006	4,006
274	PERSONNEL ADMINISTRATION	3,078	3,078
275	AIR FORCE STUDIES AND ANALYSIS AGENCY	5,309	909
	Insufficient justification		-4,400
	FINANCIAL MANAGEMENT INFORMATION SYSTEMS		
276	DEVELOPMENT	4,279	4,279
277	DEFENSE ENTERPRISE ACNTNG AND MGT SYS (DEAMS)	45,925	45,925
278	SERVICE SUPPORT TO SPACECOM ACTIVITIES	9,778	9,778
999	CLASSIFIED PROGRAMS	16,814,245	16,621,491
	Classified adjustment		-192,754
UND	CIVILIAN FTE ADJUSTMENT		-129,630
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE	46,565,356	47,340,416

SENTINEL MANPOWER

The agreement recognizes that the Sentinel program has experienced delays and that the Air Force is updating program cost estimates and schedule information. The agreement includes the directive under this heading in Senate Report 118-81 and further directs the Secretary of the Air Force to update the congressional defense committees on the current status of cost and schedule of the program on a quarterly basis and any changes that impact Interim Operational Capability and Full Operational Capability whenever such change occurs.

SENTINEL INDUSTRIAL BASE

The agreement provides \$100,000,000 for prototyping to reduce schedule and cost risk, and stabilize the supply base. This funding may also be used for commissioning industrial base studies, developing radiation-hardened components for strategic applications, and certifying metal-oxide-semiconductor field-effect transistors. The agreement also provides \$100,000,000 to strengthen Sentinel program key suppliers, particularly in areas with identified gaps, and to improve supplier efficiency. This funding may also be used for workforce development and collaboration with trade schools. The agreement retains the directives under the heading "Sentinel Industrial Base" in Senate Report 118-81.

ADVANCED ENGINE DEVELOPMENT - ENGINE TECHNOLOGIES

The agreement recognizes the importance of engine development for fighter aircraft, and investments in the skilled engineering and manufacturing workforce to support the domestic fighter aircraft engine industrial base. Therefore, the agreement includes \$280,000,000 only to develop advanced engine technologies for integration into future engine development programs. This can include investments in adaptive cycle engine technologies, improved manufacturing techniques for engine components, development of novel materials, and the integration of enhanced digital design capabilities into the engine development process.

The Assistant Secretary of the Air Force for Acquisition, Technology and Logistics is directed to provide to the congressional defense committees, not later than 90 days after enactment of this Act, a spend plan for the additional resources provided by this agreement. The Assistant Secretary of the Air Force for Acquisition, Technology and Logistics is also directed to provide to the congressional defense

committees, not later than 90 days after enactment of this Act, a briefing describing how the Air Force intends to ensure there is a sufficient level of engine design work in order to maintain a robust domestic aircraft engine industrial base.

The agreement does not support the integration of an alternative engine on the F-35, and includes a new general provision that prohibits the use of funds to integrate an alternative engine on any F-35 aircraft.

This language replaces the language under the heading "Fighter Aircraft Engine Development" in House Report 118-121 and the language under the heading "Future Engine Technologies" in Senate Report 118-81.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE

The agreement provides \$18,669,844,000 for Research, Development, Test and Evaluation, Space Force, as follows:

(INSERT PROJECT LEVEL TABLE) Inser+ 101 A-E

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

R-1		Budget Request	Final Bill
1	DEFENSE RESEARCH SCIENCES	0	20,100
·	Transfer from RDT&E, AF line 1 for space unique S&T		20,100
2	UNIVERSITY RESEARCH INITIATIVES	0	14,400
	Transfer from RDT&E, AF line 2 for space unique S&T		14,400
4	SPACE TECHNOLOGY	206,196	342,592
	Prior year underexecution		-2,765
	DAF requested transfer from line 48 for civilian personnel		72,888
	Transfer from RDT&E, AF line 3 for space unique S&T		7,273
	Program increase - L-band active phased array demonstration		3,000
	Program increase - small satellite chemical propulsion		3,000
	Program increase - advanced analog microelectronics		3,000
	Program increase - isotope power systems		3,000
	Program increase - hybrid space architecture		5,000
	Program increase - thin film tandem solar cells		3,000
	Program increase - university consortium for space technology		1,000
	Program increase - autonomous RPOD		10,000
	Program increase - high-efficiency solar chiplet arrays for LEO satellites		5,000
	Program increase - on-orbit bi-propellant propulsion		2,000
	Program increase - space modeling, simulation, and analysis hub		7,500
	Program increase - space situational awareness ground infrastructure		5,000
	Program increase - space qualified solar cell manufacturing		4,000
	Program increase - sub-zero volt lithium-ion battery		2,500
	Program increase - software development for RPO to support space		
	domain awareness		2,000
5	SPACE SCIENCE AND TECHNOLOGY RESEARCH AND		
•	DEVELOPMENT	472,493	477,193
	Prior year carryover		-15,000
	Inadequate justification - other tranche 2 activities		-10,300
	Program increase - radiation-hardened, trusted, assured		
	microelectronics		5,000
	Program increase - space sensor fusion		6,500
	Program increase - defense of LEO		10,500
	Program increase - isotope power systems		5,000
	Program increase - defense in depth as mission assurance		
	spacecraft multi-level security		3,000

R-1		Budget Request	Final Bill
6	SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEMO	110,033	232,906
•	DAF requested transfer from line 16 for space solar power project	,	40,000
	Underexecution		-9,800
	Transfer from RDT&E, AF line 15 for space unique S&T		48,373
	Transfer from RDT&E, AF line 16 for space unique S&T		3,033
	Transfer from RDT&E, AF line 24 for space unique S&T		812
	Transfer from RDT&E, AF line 27 for space unique S&T		1,955
	Program increase - EO and LADAR for early threat detection		5,000
	Program increase - modular multi-mode propulsion system		8,000
	Program increase - commercial space access improvements		5,000
	Program increase - responsive launch infrastructure upgrade		5,000
	Program increase - additive manufacturing of energetics		5,000
	Program increase - hydrocarbon boost engine		5,000
	Program increase - adaptive medium-lift engine architecture		3,500
	Program increase - advanced spacecraft non-toxic multi-mode propulsion		2,000
7	SPACE FORCE WEATHER SERVICES RESEARCH	849	849
8	SPACE FORCE IT, DATA ANALYTICS, DIGITAL SOLUTIONS	61,723	51,723
	Inadequate justification - digital engineering		-10,000
9	NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)		
J	(SPACE)	353,807	333,247
	MGUE Inc 2 handheld delay	•	-6,960
	MGUE Inc 2 excess to need		-13,600
10	SPACE WARFIGHTING ANALYSIS	95,541	95,541
11	EO/IR WEATHER SYSTEMS	95,615	80,615
•	Demo 2 acquisition strategy	,-·-	-15,000
40	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	2.094.207	2.056.207
13	Inadequate justification - other activities	2,081,307	2,056,307 -25,000
	madequate justification - other activities		-23,000
16	SPACE SYSTEMS PROTOTYPE TRANSITIONS (SSPT)	145,948	80,975
	Underexecution	,	-18,000
	DAF requested transfer to line 6 for space solar power project		-40,000
	ROOSTER launch support ahead of need		-8,472
	LDPE–2 and 3A launch support previously funded		-1,001
	Program increase - GEO SmallSat communications technology		2,500
	AD LOS COLUMNOS TECUNOS COM	50.074	00.074
17	SPACE CONTROL TECHNOLOGY	58,374	63,374
	Program increase - in-orbit electric propulsion		5,000
18	TECH TRANSITION (SPACE)	164,649	164,649
19	SPACE SECURITY AND DEFENSE PROGRAM	59,784	63,784
	Program increase - SSDP support	22,00	4,000
20	PROTECTED TACTICAL ENTERPRISE SERVICE (PTES)	76,554	72,809
	Underexecution		-3,745

R-1		Budget Request	Final Bill
21	PROTECTED TACTICAL SERVICE (PTS)	360,126	233,596
	Unjustified request - management services	·	-5,574
	Reduce EMD and rapid prototyping concurrency		-108,356
	ECO FFP reduction		-12,600
22	EVOLVED STRATEGIC SATCOM (ESS)	632,833	505,224
	Griffon follow-on ahead of need		-10,650
	ECO excess with FFP construct		-28,412
	Overestimation of A&AS		-20,000
	Overestimation of SE&I		-4,477
	End cryptologic contract delay		-25,592
	Ground segment contract delay		-38,478
23	SPACE RAPID CAPABILITIES OFFICE	12,036	19,536
	Program increase - digital beamforming ground-based C2		7,500
24	TACTICALLY RESPONSE SPACE	30,000	50,000
	Program increase		20,000
25	GPS III FOLLOW-ON (GPS IIIF)	308,999	292,185
	Development excess to need		-16,814
27	COUNTERSPACE SYSTEMS	36,537	32,159
	Underexecution		-4,378
28	WEATHER SYSTEM FOLLOW-ON	79,727	75,327
	Unjustified increase - management services		-1,600
	SV 1-2 excess to need		-2,800
29	SPACE SITUATION AWARENESS SYSTEMS	372,827	372,827
30	ADVANCED EHF MILSATCOM (SPACE)	4,068	4,068
31	POLAR MILSATCOM (SPACE)	73,757	64,422
	EPS-R payload development complete		-9,335
32	WIDEBAND GLOBAL SATCOM (SPACE)	49,445	35,620
	PCMS award delay		-13,825
33	NEXT-GEN OPIR - GROUND	661,367	575,875
	Overestimation of MDP expenditures		-57,592
	FORGE-C2 acquisition strategy change		-19,400
	RGS-A contract savings		-8,500
34	NEXT GENERATION OPIR	222,178	192,366
	Data exploitation carryover		-29,812
35	NEXT-GEN OPIR - GEO	719,731	691,069
	Incentive fees ahead of need		-18,819
	Overestimation of A&AS		-9,843
36	NEXT-GEN OPIR - POLAR	1,013,478	866,813
	Unjustified increase - management services		-3,265
	Phase 2 concurrency		-143,400



R-1		Budget Request	Final Bill
37	COMMERCIAL SATCOM (COMSATCOM) INTEGRATION LUX MEO new start ECO reduction	73,501	71,413 -2,088
37A	COMMERCIAL SERVICES	0	50,000
	Program increase - space-based monitoring over the U.S. Southern Command AOR		10,000
	Program increase - CCMD direct commercial surveillance, reconnaissance and tracking services		40,000
38	RESILIENT MISSILE WARNING MISSILE TRACKING - LOW		
	EARTH ORBIT (LEO) DAF requested transfer from line 40	1,266,437	1,481,222 252,785
	Inadequate justification		-38,000
39	RESILIENT MISSILE WARNING MISSILE TRACKING - MEDIUM		
	EARTH ORBIT (MEO)	538,208	684,675
	DAF requested transfer from line 40		252,784
	SV 1–3 contract savings SV 4–6 budgeted excess to estimate		-67,457 -38,860
	3V 4-0 budgeted excess to estimate		-30,000
40	RESILIENT MISSILE WARNING MISSILE TRACKING -		
	INTEGRATED GROUND SEGMENT	505,569	0
	DAF requested transfer to line 38		-252,785
	DAF requested transfer to line 39		-252,784
41	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE) - EMD	82,188	162,188
•••	Program increase - additional NSSL payload processing facility	,	80,000
43	SPACE WARFIGHTING ANALYSIS	3,568	3,568
46	ACQ WORKFORCE - SPACE & MISSILE SYSTEMS	258,969	253,786
	DAF requested transfer from line 48		17,531
	Projected overestimation of civilian compensation		-22,714
47	SPACE & MISSILE SYSTEMS CENTER - MHA	13,694	15,053
	DAF requested transfer from line 48		1,359
48	SPACE TECHNOLOGY	91,778	0
	DAF requested transfer to line 4		-72,888
	DAF requested transfer to line 46		-17,531
	DAF requested transfer to line 47		-1,359
49	MAJOR T&E INVESTMENT - SPACE	146,797	146,797
50	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	18,023	43,023
	Program increase - state launched range services and capabilities		25,000
52	SPACE TEST PROGRAM (STP)	30,192	30,192
55	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T)	91,369	91,369
56	DCO-SPACE	76,003	76,003
57	NARROWBAND SATELLITE COMMUNICATIONS	230,785	206,369
	Inadequate justification - management services		-9,450
	Prior year SLE excess to need		-14,966



R-1		Budget Request	Final Bill
58	SATELLITE CONTROL NETWORK (SPACE) Underexecution ERM excess to need	86,465	79,665 -4,700 -2,100
59	LONG RANGE KILL CHAINS Classified adjustment	243,036	193,036 -50,000
61	SPACE AND MISSILE TEST AND EVALUATION CENTER	22,039	22,039
62	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT Previously funded by P.L. 117-328 Section 8121 Program increase - space operators education and experiential learning	41,483	38,983 -4,500 2,000
63	SPACELIFT RANGE SYSTEM (SPACE)	11,175	11,175
65	SPACE SUPERIORITY ISR	28,730	28,730
67	BALLISTIC MISSILE DEFENSE RADARS Program increase - PARCS	20,752	28,752 8,000
68	NCMC - TW/AA SYSTEM	25,545	25,545
69	NUDET DETECTION SYSTEM (SPACE)	93,391	93,391
70	SPACE SITUATION AWARENESS OPERATIONS GSW sensor comm upgrade prior year carryover Program increase - commercial collaborative sensor network Program increase - Al and autonomy for data analytics and sensors Program increase - unified data library	264,966	279,824 -3,142 3,000 10,000 5,000
71	GLOBAL POSITIONING SYSTEM III - OPERATIONAL CONTROL SEGMENT Blk 1/2 interim contractor support-excess to need Blk 1/2 A&AS overestimation Blk 1/2 prior-year carryover OCX 3F execution delay	317,309	246,809 -11,200 -3,000 -29,400 -26,900
75	ENTERPRISE GROUND SERVICES	155,825	155,825
76	JOINT TACTICAL GROUND SYSTEM	14,568	14,568
999	CLASSIFIED PROGRAMS Classified adjustment	5,764,667	5,851,367 86,700
78	SPACE COMMAND & CONTROL - SOFTWARE PILOT PROGRAM	122,326	122,326
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE	19,199,340	18,669,844

TACTICALLY RESPONSIVE SPACE AND THE INDUSTRIAL BASE

The agreement directs the Assistant Secretary of the Air Force for Space Acquisition and Integration to provide a report to the congressional defense committees, not later than 120 days after enactment of this Act, that defines the mission sets to be pursued under the tactically responsive space umbrella within the future years defense program and longer term prospective mission sets, along with a market analysis of the resident and emerging capabilities within the space industrial base to perform these missions. The report shall include an assessment of the relative technical maturity of each capability and an assessment of the industrial base capacity to support these mission sets, including but not limited to, responsive launch, on-orbit servicing, on-orbit pre-positioning, and on-orbit refueling.

CISLUNAR SPACE

Developing capabilities and operating within cislunar space is imperative for the Nation to obtain national security, science and technology, and economic advantages. Congressionally directed increases accounted for 80 percent of all resources invested in cislunar activities over the last two fiscal years. The agreement again encourages the Secretary of the Air Force to increase its investments in cislunar propulsion technologies, space domain awareness, and other related activities.

IN-SPACE ASSEMBLY AND MANUFACTURING

The agreement notes the promise of in-space assembly and manufacturing (ISAM) to support a range of civil and national security missions and is aware that the Space Force is exploring a mission to resurrect the NASA Spitzer Space Telescope using such capabilities. The agreement encourages the Secretary of the Air Force to increase investment for ISAM and pursue avenues to collaborate with the civil space sector and industry on a near-term mission.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

The agreement provides \$36,892,886,000 for Research, Development, Test and Evaluation, Defense-Wide, as follows:

(INSERT PROJECT LEVEL TABLE) & (Insert 103A-N

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

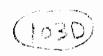
R-1		Budget Request	Final Bill
1	DTRA BASIC RESEARCH Program increase - materials science in extreme dynamic environments plus Program increase - materials science in extreme environments	14,761	21,761 2,000 5,000
2	DEFENSE RESEARCH SCIENCES Reduce carryover - advanced manufacturing science	311,531	304,031 -7,500
3	HIGH ENERGY LASER RESEARCH INITIATIVES	16,329	16,329
4	BASIC RESEARCH INITIATIVES Program increase - DEPSCoR Program increase - global competition analysis net assessment Program increase - Hispanic serving research cohort	71,783	111,783 20,000 10,000
5	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE	50,430	50,430
6	NATIONAL DEFENSE EDUCATION PROGRAM Program increase - STEM fellowships	159,549	162,549 3,000
7	HISTORICALLY BLACK COLLEGES AND UNIVERSITIES/MINORITY INSTITUTIONS Program increase - augmenting quantum sensing research, education, and traces.	100,467 aining	101,467 1,000
8	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM Prior year underexecution	36,235	33,486 -2,749
9	JOINT MUNITIONS TECHNOLOGY Unclear S&T strategy	19,157	17,241 -1,916
10	BIOMEDICAL TECHNOLOGY Excess growth	141,081	114,525 -26,556
11	PROMOTION AND PROTECTION STRATEGIES	3,219	3,219
12	DEFENSE TECHNOLOGY INNOVATION Unjustified growth	55,160	20,002 -35,158
13	LINCOLN LABORATORY RESEARCH PROGRAM	46,858	46,858
14	APPLIED RESEARCH FOR THE ADVANCEMENT OF S&T Rebaseline program profile	66,866	60,440 -6,426
15	INFORMATION & COMMUNICATIONS TECHNOLOGY Efforts previously funded	333,029	326,779 -6,250
17	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	240,610	240,610
18	CYBER SECURITY RESEARCH Program increase - academic cyber institutes Program increase - Pacific intelligence and innovation initiative Program increase - semiconductor supply chain cyber security research	17,437	30,437 5,000 5,000 3,000

R-1		Budget Request	Final Bill
19	SOCIAL SCIENCES FOR ENVIRONMENTAL SECURITY Program decrease - PREPARES	4,718	3,218 -1,500
20	TACTICAL TECHNOLOGY Excess growth	234,549	211,848 -22,701
21	MATERIALS AND BIOLOGICAL TECHNOLOGY	344,986	344,986
22	ELECTRONICS TECHNOLOGY Program increase - small radio-frequency demonstrator Program decrease - reduce carryover	572,662	517,831 6,000 -60,831
23	COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH Program increase - advanced manufacturing of energetics Program increase - crowd sourced AI for detection	208,870	220,220 5,000 6,350
24	SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH	11,168	11,168
25	HIGH ENERGY LASER RESEARCH	48,804	48,804
26	FSRM MODELLING	2,000	2,000
27	SOF TECHNOLOGY DEVELOPMENT Program increase - assessment of commercial systems Program increase - identity threat mitigation Program increase - signature management improvements (SUAS)	52,287	67,937 6,000 7,000 2,650
28	JOINT MUNITIONS ADVANCED TECHNOLOGY Program increase - energetics acceleration Unclear strategy	37,706	39,883 5,000 -2,823
29	NATIONAL SECURITY INNOVATION CAPITAL	15,085	15,085
30	SO/LIC ADVANCED DEVELOPMENT Duplicative funding Transfer to line 130, CDAO Dem/Val Activities for SUNet	30,102	2,000 -15,800 -12,302
31	Program increase - artificial intelligence for explosive ordinance disposal decision support Program increase - combat terrorism technology support Program increase - cooperative C-UAS development including		178,093 5,000 47,500 1,000 2,500
	directed energy and laser technology Program increase - supercavitating projectiles Program increase - wearable detection of chemical and biological agents		40,000 5,000 1,500
32	FOREIGN COMPARATIVE TESTING	27,078	27,078
33	COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT Program increase - advanced manufacturing of energetic materials	400,947	409,447 8,500
34	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	7,990	7,990



R-1		Budget Request	Final Bill
35	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT Program increase - hypersonic HWIL upgrades Program increase - long-lived power source for directed energy	17,825	29,325 5,000
	weapon missile defense satellite system Program increase - quantum computing threat modeling		5,000 1,500
36	ADVANCED RESEARCH Program increase - advanced carbon materials for hypersonic applications Program increase - advanced directed energy optics design and manufacturin Program increase - benzoxazine for high-mach system thermal protection Program increase - energy efficient AI hardware for military edge devices Program increase - hypersonic interceptor component technology Program increase - radiation hardened microelectronics testing facility	21,461 g	61,961 2,500 7,000 8,000 6,000 5,000 12,000
37	JOINT HYPERSONIC TECHNOLOGY DEVELOPMENT & TRANSITION Program increase - additive hypersonic components with advanced porous materials	52,292	54,292 2,000
38	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	19,567	19,567
39	INTELLIGENCE ADVANCED DEVELOPMENT	10,000	10,000
40	ADVANCED AEROSPACE SYSTEMS Program increase - artificial intelligence reinforcements Early to need - liberty lifter Excess growth Program termination - tactical boost glide	331,753	233,943 10,000 -8,310 -18,000 -81,500
41	SPACE PROGRAMS AND TECHNOLOGY Excess growth	134,809	118,809 -16,000
42	ANALYTIC ASSESSMENTS Program increase - strategic multilayer assessment	24,328	32,328 8,000
43	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS Classified adjustment	55,626	65,626 10,000
44	QUANTUM APPLICATION Lack of acquisition strategy	75,000	20,000 -55,000
46	Program increase - defense innovation onramp hubs Program increase - defense innovation onramp hubs geographic expansion Program increase - industrial foreign influence analysis Program increase - innovation with academia Program increase - nuclear advanced propulsion and power Program increase - reusable hypersonic technology Program increase - hypersonic unmanned wingman	104,729	225,229 65,000 10,000 8,000 15,000 2,500 10,000
47	TECHNOLOGY INNOVATION Phase programmatic growth Transfer Project 375 to line 66	123,837	50,232 -31,724 -41,881
48	ADVANCED TECHNICAL INTEGRATION	11,000	11,000

R-1	В	udget Request	Final Bill
49	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEVELOPMENT Program increase - broad-spectrum indirect antiviral research Excess growth	267,073	255,073 3,000 -15,000
50	RETRACT LARCH	57,401	57,401
51	JOINT ELECTRONIC ADVANCED TECHNOLOGY Unclear strategy	19,793	16,824 -2,969
53	NETWORKED COMMUNICATIONS CAPABILITIES Unjustified growth	11,197	3,253 -7,944
54	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM Program increase - accelerating predictive supply chain logistics Program increase - additive manufacturing at scale Program increase - additive manufacturing casting Program increase - aluminum castings performance initiative Program increase - advanced regenerative manufacturing Program increase - advanced robotics and automation training Program increase - biotechnology manufacturing institutes Program increase - data analytics and visualization Program increase - digital manufacturing accelerator Program increase - domestic flexible factory for footwear manufacturing Program increase - flexible hybrid electronics Program increase - high performance computing enabled large-scale manufactur Program increase - high temperature composite material manufacturing Program increase - integrated silicon-based lasers Program increase - manufacturing of advanced components for hypersonics Program increase - microelectromechanical systems mirror-based LiDAR senso Program increase - Tapid additive manufacturing	r	479,465 2,000 5,000 5,000 4,000 4,000 8,000 100,000 6,000 10,000 25,000 10,000 4,000 4,000 16,000 3,000 5,000 3,500
55	MANUFACTURING TECHNOLOGY PROGRAM Program increase - artificial intelligence manufacturing Program increase - critical mineral supply chain resiliency Program increase - high purity vanadium for aerospace titanium alloys Program increase - hypersonic radomes and apertures Program increase - processing pilot for high-purity nickel Program increase - rare earth element mining Program increase - recover, reclaim, recycle materials from defense scrap Program increase - steel performance initiative Execution risk	46,404	69,764 5,000 5,000 2,000 4,000 3,000 2,000 2,000 5,000 -4,640
56	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS Program increase - wood to jet fuel Leverage Joint SBIR/STTR	16,580	16,991 3,000 -2,589
57	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	60,387	60,387
58	MICROELECTRONICS TECHNOLOGY DEVELOPMENT AND SUPPORT Program increase - enhanced RF microelectronics production Execution risk	144,707	147,472 10,000 -7,235
59	JOINT WARFIGHTING PROGRAM	2,749	2,749



R-1		Budget Request	Final Bill
60	ADVANCED ELECTRONICS TECHNOLOGIES	254,033	254,033
61	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS Classified adjustment	321,591	346,591 25,000
62	NETWORK-CENTRIC WARFARE TECHNOLOGY Classified adjustment Unjustified growth	885,425	863,175 -16,000 -6,250
63	SENSOR TECHNOLOGY Excess growth	358,580	322,050 -36,530
65	SOFTWARE ENGINEERING INSTITUTE	16,699	16,699
66	DEFENSE INNOVATION ACCELERATION (DIA) Maintain level of effort Previously funded Transfer Project 375 from line 47	257,110	261,741 -18,000 -19,250 41,881
67	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	111,799	111,799
68	TEST & EVALUATION SCIENCE & TECHNOLOGY Program increase - enhanced hypersonic testing capabilities in collaboration with NASA Program increase - hypersonic wave heat facilities Program increase - MACH-TB modeling, simulating, analysis, and testing classified network Program increase - space based telemetry using phased array Program increase - space testing facilities Unjustified growth	345,384	15,000 20,000 10,000 8,350 25,000 -11,366
69	AUKUS INNOVATION INITIATIVES Program decrease - excess to need	25,000	12,500 -12,500
70	NATIONAL SECURITY INNOVATION NETWORK	21,575	21,575
71	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT Program increase Program increase - high energy laser counter anti-ship cruise missile program thermal energy storage Program increase - radioisotope power systems Program increase - TRISO advanced fuel Prior year underexecution	171,668	221,085 20,000 10,000 18,000 10,000 -8,583
72	SOF ADVANCED TECHNOLOGY DEVELOPMENT Program increase - C-130J auto flight deck and remote mission systems Program increase - identity management Maintain level of effort - advanced technology development Program decrease	156,097	161,163 10,500 3,500 -4,934 -4,000
74	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT RDT&E ADC&P Excess growth	76,764	59,463 -17,301
75	WALKOFF	143,486	143,486

R-1	Bu	dget Request	Final Bill
76	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM Program increase - on-base microgrid resiliency Program increase - sustainable technology evaluation and demonstration program Program decrease - sustainable technologies evaluation and demonstration program		122,196 5,000 3,000 -3,000
77	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT Program increase - THAAD modernization	220,311	225,311 5,000
78	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE Early to need Excess growth	903,633	886,798 -4,050 -12,785
79	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - DEM/VAL Excess growth	316,853	292,006 -24,847
80	BALLISTIC MISSILE DEFENSE SENSORS	239,159	239,159
81	BMD ENABLING PROGRAMS Future concepts and planning growth Threat systems engineering	597,720	587,490 -3,500 -6,730
82	SPECIAL PROGRAMS - MDA Classified adjustment	552,888	564,888 12,000
83	AEGIS BMD Program increase - lightweight, radiation-hardened, thermally-insensitive sensors Excess growth Unjustified request	693,727	603,671 10,000 -4,856 -95,200
84	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT AND COMMUNICATION Program decrease - flight test adjustments	554,201	553,870 -331
85	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT	48,248	48,248
86	MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER (MDIOC)	50,549	50,549
87	REGARDING TRENCH Classified adjustment	12,564	17,564 5,000
88	SEA BASED X-BAND RADAR (SBX)	177,868	177,868
89	ISRAELI COOPERATIVE PROGRAMS	300,000	300,000
90	BALLISTIC MISSILE DEFENSE TEST Program decrease - flight test adjustments	360,455	358,903 -1,552
91	BALLISTIC MISSILE DEFENSE TARGETS Program increase - advanced reactive target simulation Program increase - advanced target front end configuration technology maturation Program increase - leveraging commercial launch for targets and countermeasure Program increase - low cost hypersonic flight test bed Program increase - low cost liquid target demonstration		617,758 10,000 5,000 10,000 15,000 7,500



R-1		Budget Request	Final Bill
92	COALITION WARFARE Program decrease - excess to need	12,103	9,903 -2,200
93	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G) Program decrease - excess to need Transfer to line 281	179,278	124,278 -20,000 -35,000
94	DEPARTMENT OF DEFENSE CORROSION PROGRAM Program increase - anti-corrosion initiatives	3,185	5,185 2,000
95	GUAM DEFENSE DEVELOPMENT	397,578	397,578
96	TECHNOLOGY MATURATION INITIATIVES Program increase - short pulse laser directed energy demonstration for hypersonic defense	0	10,000 10,000
97	CHIEF DIGITAL AND ARTIFICIAL INTELLIGENCE OFFICER (CDAO) - MIP	34,350	34,350
98	HYPERSONIC DEFENSE Program increase - reusable hypersonic flight testing	208,997	233,997 25,000
99	ADVANCED INNOVATIVE TECHNOLOGIES Program increase - Project Pele Classified adjustment Early to need - hypervelocity gun weapons system Effort previously funded	1,085,826	1,016,283 41,800 -68,518 -32,825 -10,000
100	TRUSTED & ASSURED MICROELECTRONICS Program increase - chiplet interfaces for advanced node field programmable Program increase - high voltage silicon carbide microelectronics Program increase - magnetoresistive random-access memory Program increase - radiation-hardened chiplet design acceleration Execution risk	760,839 le gate arrays	710,814 10,000 7,000 3,500 5,000 -75,525
101	RAPID PROTOTYPING PROGRAM Program increase - undersea kinetic multi-payload capable USV Program completion - SCIFIRE Prior year contract savings Functional transfer to line 130A for JADC2	110,291	79,191 5,000 -8,900 -12,200 -15,000
102	RAPID PROTOTYPING PROGRAM Program decrease	9,880	5,880 - 4 ,000
103	Program increase Program increase - accountability bookkeeping dashboard Program increase - additive manufacturing of undersea drones Program increase - advance rocket propulsion Program increase - aircraft autonomy Program increase - quantum Transfer from line 106 - operational energy capability improvement non-S&	0	7,000 18,000 10,000 20,000 14,750 55,000 7,124
104	DEPARTMENT OF DEFENSE (DOD) UNMANNED SYSTEM COMMON DEVELOPMENT Program increase - unmanned traffic management test, evaluation, and important tests.	2,643 plementation	9,643 7,000
105	CATAPULT INFORMATION SYSTEM	8,328	8,328



R-1		Budget Request	Final Bill
106	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT - NON S&T Prior year underexecution Transfer to line 103	53,726	39,479 -7,123 -7,124
108	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS (SSA)	3,206	3,206
109	RAPID DEFENSE EXPERIMENTATION RESERVE (RDER) Program decrease	79,773	23,515 -56,258
110	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY ASSESSMENTS Transfer to Line 130A for JADC2	28,517	19,457 -9,060
111	LONG RANGE DISCRIMINATION RADAR (LRDR)	103,517	103,517
112	IMPROVED HOMELAND DEFENSE INTERCEPTORS	2,130,838	2,130,838
113	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT TEST Program decrease - flight test adjustments	47,577	20,708 -26,869
114	AEGIS BMD TEST Program decrease	193,484	186,484 -7,000
115	BALLISTIC MISSILE DEFENSE SENSOR TEST	111,049	111,049
116	LAND-BASED SM-3 (LBSM3)	22,163	22,163
117	BALLISTIC MISSILE DEFENSE MIDCOURSE SEGMENT TEST Prior year test adjustments	41,824	33,224 -8,600
118	SAFETY PROGRAM MANAGEMENT	2,484	2,484
119	CYBERCOM ACTIVITIES	65,484	65,484
120	ROBUST INFRASTRUCTURE AND ACCESS Unjustified growth	170,182	135,482 -34,700
121	CYBER TRAINING ENVIRONMENT (CTE)	114,980	114,980
122	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS	2,156	2,156
123	CYBER SECURITY INITIATIVE	2,760	2,760
124	INTELLIGENCE CAPABILITIES AND INNOVATION	3,000	3,000
125	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT Program increase - Joint Forces Headquarters - DOD information network cyber defensive operations and training	2,669	16,669 14,000
126	OFFICE OF STRATEGIC CAPITAL (OSC) Program decrease - critical technologies limited partner program Transfer to Department of Defense Credit Program Account, Title VIII	99,000	34,800 -15,000 -49,200



R-1	Budget Request	Final Bill
129 BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS Program increase - HBTSS	109,483	110,483 1,000
130 CHIEF DIGITAL AND ARTIFICIAL INTELLIGENCE OFFICER		
(CDAO) - DEM/VAL ACTIVITIES	615,246	351,679
Program increase - all domain autonomous simulation		4,900
Program increase - management innovation pilot Program increase - secure transit over untrusted networks		50,000 5,000
Program increase - SUNvana improvements		5,000
Undefined requirement - big play pilot		-19,500
Cost overestimation - GIDE		-13,400
Functional transfer to line 130A for JADC2		-262,950
Functional transfer to line 130B for Alpha-1		-44,919
Transfer from line 30, SO/LIC advanced development		12,302
130A JADC2		343,010
Program increase - joint fires network		50,000
Classified adjustment		6,000
Functional transfer from line 101 for JADC2		15,000
Functional transfer from line 110 for JADC2 Functional transfer from line 130 for JADC2		9,060
Functional transfer from line 130 for JADC2		262,950
130B ALPHA-1		54,919
Program increase - autonomy enterprise platform		10,000
Functional transfer from line 130 for Alpha-1		44,919
131 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY	c 220	0.000
EQUIPMENT RDT&E SDD	6,229	6,229
132 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - EMD	382,977	342,114
Execution risk		-20,266
Unexecutable growth - autoinjector manufacturer capability		-20,597
133 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM	9,775	9,775
134 COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS		
DEVELOPMENT	14,414	14,414
135 INFORMATION TECHNOLOGY DEVELOPMENT	6,953	6,953
136 HOMELAND PERSONNEL SECURITY INITIATIVE	9,292	7,292
Insufficient justification		-2,000
137 DEFENSE EXPORTABILITY PROGRAM	18,981	14,731
Excess growth	10,000	-4,250
138 OUSD(C) IT DEVELOPMENT INITIATIVES	5,456	5,456
440 DEFENSE ACENCY INITIATIVES (DAI) FINANCIAL SYSTEM	32,629	20.220
140 DEFENSE AGENCY INITIATIVES (DAI) - FINANCIAL SYSTEM Excess growth	32,029	29,229 -3,400
141 MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	9,316	9,316
		,
142 DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES	6,899	6,899
143 TRUSTED & ASSURED MICROELECTRONICS Execution risk	247,586	209,034 -38,552
145 NUCLEAR COMMAND, CONTROL, & COMMUNICATIONS	4,110	4,110
146 DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT	8,159	8,159

R-1		Budget Request	Final Bill
	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION	14,471	14,471
	DOMESTIC PREPAREDNESS AGAINST WEAPONS OF MASS DESTRUCTION	3,770	3,770
149	JOINT CAPABILITY EXPERIMENTATION	12,402	12,402
150	DEFENSE READINESS REPORTING SYSTEM (DRRS)	12,746	12,746
151	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	8,426	8,426
	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT (CTEIP) Program increase - hypersonic test facility Early to need	833,792	850,000 105,000 -88,792
153	ASSESSMENTS AND EVALUATIONS	5,810	5,810
154	MISSION SUPPORT	99,090	99,090
155	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC) Duplicative funding	187,421	175,699 -11,722
156	JOINT INTEGRATED AIR AND MISSILE DEFENSE	61,477	61,477
157	CLASSIFIED PROGRAM USD(P) Program increase - classified adjustment	0	167,042 167,042
158	SYSTEMS ENGINEERING Excess growth	39,949	30,749 -9,200
159	STUDIES AND ANALYSIS SUPPORT - OSD	6,292	6,292
160	NUCLEAR MATTERS-PHYSICAL SECURITY Excess growth	21,043	15,400 -5,643
161	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	10,504	10,504
	GENERAL SUPPORT TO OUSD (INTELLIGENCE AND SECURITY) Program increase - implementation of findings and recommendations of security programs, policies and procedures	2,980	7,980 5,000
163	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	74,382	74,382
	SMALL BUSINESS INNOVATION RESEARCH (SBIR)/ SMALL BUSINESS TECHNOLOGY TRANSFER	3,831	3,831
171	MAINTAINING TECHNOLOGY ADVANTAGE	38,923	38,923
172	DEFENSE TECHNOLOGY ANALYSIS Unclear strategy and metrics	60,404	55,565 -4,839
173	DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	65,715	65,715
	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING AND EVALUATION Program increase - federal voting assistance program	26,037	31,037 5,000
175	DEVELOPMENT TEST AND EVALUATION	37,353	37,353

R-1		Budget Request	Final Bill
176	MANAGEMENT HQ - R&D	14,833	14,833
177	MANAGEMENT HQ - DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	3,752	3,752
178	SPECIAL ACTIVITIES	18,088	18,088
179	BUDGET AND PROGRAM ASSESSMENTS	14,427	14,427
180	ANALYSIS WORKING GROUP (AWG) SUPPORT	4,200	4,200
181	CHIEF DIGITAL AND ARTIFICIAL INTELLIGENCE OFFICER (CDAO) ACTIVITIES Excess growth	17,247	13,447 -3,800
182	ODNA TECHNOLOGY AND RESOURCE ANALYSIS	3,386	3,386
183	DEFENSE SCIENCE BOARD	2,352	2,352
184	AVIATION SAFETY TECHNOLOGIES Program decrease - unjustified request	213	0 -213
186	CYBER RESILIENCY AND CYBERSECURITY POLICY Duplicative spending	45,194	42,194 -3,000
187	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	11,919	11,919
188	DEFENSE OPERATIONS SECURITY INITIATIVE (DOSI)	3,112	3,112
189	JOINT STAFF ANALYTICAL SUPPORT	4,916	4,916
190	C4I INTEROPERABILITY	66,152	66,152
195	COMBINED ADVANCED APPLICATIONS	5,366	5,366
197	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	3,069	3,069
199	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION (CE2T2) - NON-MHA Duplicative request - JLVC modernization	101,319	54,069 -47,250
200	DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI)	740	740
201	MANAGEMENT HQ - MDA	28,363	28,363
202	JOINT SERVICE PROVIDER (JSP)	5,177	5,177
203	ENTERPRISE SECURITY SYSTEM (ESS)	42,482	42,482

R-1		Budget Request	Final Bill
205	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT	1,017,141	921,354
	Program increase - 2.5D advanced packaging		10,250
	Program increase - 3D printing technology		3,000
	Program increase - 5G testbed		10,000
	Program increase - advanced electrification demonstration		3,000
	Program increase - advanced headborne systems and manufacturing		5,000
	Program increase - advanced thermoplastics demonstration		10,000
	Program increase - automated textile manufacturing		5,000
	Program increase - battery manufacturing supply chain resilience		5,000
	Program increase - critical materials processing	•	10,000
	Program increase - critical minerals from chromatographic separation		2,000
	Program increase - defense supply chain and workforce readiness program	m	2,000
	Program increase - domestic nickel superalloy castings		4,000
	Program increase - domestic organic light emitting diode microdisplay man	nufacturing	24,500
	Program increase - extreme environment clothing		2,000
	Program increase - freeze-dried plasma		7,800
	Program increase - high temperature ceramics lab and prototyping capabil	lity	2,000
	Program increase - munitions supply chain diversification		5,000
	Program increase - rare earth element demonstration		5,000
	Program increase - ruggedized transceivers		10,000
	Program increase - scaling commercial grade packs and frames		5,000
	Program increase - securing rare earth		5,000
	Program increase - shipyard and ship repair workforce training		3,000
	Program increase - small business shipbuilding supplier resiliency		5,000
	Planned FY25 contract awards		-239,337
206	COUNTERPROLIFERATION SPECIAL PROJECTS:	40.740	40 =40
	OPERATIONAL SYSTEMS DEVELOPMENT	12,713	12,713
207	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT		
	INFORMATION SYSTEMS (G-TSCMIS)	8,503	8,503
208	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL		
	SYSTEMS DEVELOPMENT)	80,495	67,162
	Excess growth		-13,333
209	CYBER COMMAND AND CONTROL (CYBER C2)	95,733	95,733
210	DATA AND UNIFIED PLATFORM (D&UP)	138,558	118,558
	Unjustified growth - unified platform infrastructure	,	-20,000
214	DEFENSE INFO INFRASTRUCTURE ENGINEERING AND		
	INTEGRATION	19,299	19,299
215	LONG-HAUL COMMUNICATIONS - DCS	37,726	37,726
216	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS	5.007	
	NETWORK (MEECN)	5,037	5,037
218	INFORMATION SYSTEMS SECURITY PROGRAM	97,171	137,171
	Program increase - centers for academic excellence	01,111	25,000
	Program increase - cyber institutes at senior military colleges		15,000
			10,000
220	INFORMATION SYSTEMS SECURITY PROGRAM	8,351	8,351
222	DEFENSE SPECTRUM ORGANIZATION	35,995	25,995
	EMBM contract delays		-10,000



R-1		Budget Request	Final Bill
223	JOINT PLANNING AND EXECUTION SERVICES	5,677	5,677
224	JOINT REGIONAL SECURITY STACKS (JRSS)	3,196	3,196
228	DEFENSE INDUSTRIAL BASE (DIB) CYBER SECURITY	25,655	25,655
232	INDUSTRIAL SECURITY ACTIVITIES	2,134	2,134
235	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	2,295	2,295
236	COMBINED ADVANCED APPLICATIONS	52,736	52,736
239	POLICY R&D PROGRAMS	6,263	6,263
240	NET CENTRICITY Excess growth	23,275	19,784 -3,491
242	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	6,214	6,214
249	INSIDER THREAT Program increase - credibility assessment modernization	2,971	12,971 10,000
250	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM Program increase - dual advanced use trauma system	1,879	7,269 5,390
257	CYBER OPERATIONS TECHNOLOGY SUPPORT Program increase - cyber operations technology support Unjustified growth - deployable mission support systems Unjustified growth - joint cyber warfighting architecture Unjustified growth - joint development environment Program decrease unaccounted for	469,385	399,366 2,000 -1,119 -35,000 -25,000 -10,900
261	DOMESTIC PREPAREDNESS AGAINST WEAPONS OF MASS DESTRUCTION	1,760	1,760
262	LOGISTICS SUPPORT ACTIVITIES Program increase - next generation transponder integration	1,420	4,420 3,000
263	PACIFIC DISASTER CENTERS Program increase - global water security center	1,905	3,905 2,000
264	DEFENSE PROPERTY ACCOUNTABILITY SYSTEM	3,249	3,249
265	MQ-9 UAV Program increase - adaptive airborne enterprise	37,188	92,188 55,000
267	AVIATION SYSTEMS Program increase - alternative domestic source C-130J IRSS Program increase - C-130J weapons modernization Unjustified request - aviation engineering analysis	216,174	221,177 6,000 8,000 -8,997
268	INTELLIGENCE SYSTEMS DEVELOPMENT Program increase - detecting and tracking technology Program increase - multi-mission tactical unmanned aerial system Program increase - quantum computing and quantum networking	86,737	125,237 6,000 25,000 7,500



R-1		Budget Request	Final Bill
269	OPERATIONAL ENHANCEMENTS Program increase - female body armor development and modernization Program increase - loitering munitions	216,135	236,135 5,000 15,000
270	WARRIOR SYSTEMS Program increase - blast exposure monitoring Program increase - CUAS group 3 defeat acceleration Program increase - next-generation electronic countermeasures Program increase - non-kinetic targeting and signature management Program increase - non-traditional ISR Program increase - passive radar for air defense and counter unmanned at Program increase - platform agnostic data storage infrastructure Program increase - SPEAR body armor Program increase - stand-off precision guided munitions Early to need - MPE-M	263,374 erial systems	337,174 10,000 5,000 12,000 10,000 10,000 3,500 3,000 5,000 24,000 -8,700
271	SPECIAL PROGRAMS	529	529
272	UNMANNED ISR	6,727	6,727
273	SOF TACTICAL VEHICLES	9,335	9,335
274	MARITIME SYSTEMS Program increase - autonomous unmanned surface vessels	158,231	163,231 5,000
275	OPERATIONAL ENHANCEMENTS INTELLIGENCE Program increase - 3D mapping at the tactical edge	15,749	18,249 2,500
278	ACQUISITION VISIBILITY - SOFTWARE PILOT PROGRAM	21,355	21,355
279	GLOBAL COMMAND AND CONTROL SYSTEM	33,166	33,166
281A	Program increase - AI development tools Program increase - AI for ISR data and analysis Program increase - AI for ISR drones Program increase - AUKUS and coalition warfare Program increase - autonomous amphibious response vehicle Program increase - autonomous VTOL air logistics Program increase - autonomous VTOL air logistics Program increase - CsUAS Program increase - digital engineering Program increase - DIU and service Non-traditional Innovation Fielding Entering Program increase - long endurance USVs for multi-domain awareness Program increase - modeling and simulation for autonomy Program increase - research on 5G interference with military radars Program increase - support to combatant commands Transfer from line 93	terprise	589,400 8,000 9,800 10,000 14,700 5,000 23,000 50,000 13,000 134,000 50,000 4,900 10,000 220,000 35,000
999	CLASSIFIED PROGRAMS Classified adjustment	8,463,742	8,809,670 345,928
999	CLASSIFIED PROGRAMS	36,315	36,315
999	CLASSIFIED PROGRAMS Classified adjustment	270,653	0 -270,653
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE	36,085,834	36,892,886



TACTICALLY MOBILE MICRO-REACTOR DEVELOPMENT

The agreement directs the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs to provide expeditious oversight of physical security and nuclear material handling, interagency coordination, and technical review and assistance for the design, development, and test of tactically mobile micro-reactors. This language replaces the language under this heading in Senate Report 118-81.

DIGITAL TRANSFORMATION

The agreement directs the Chief Digital and Artificial Intelligence Officer (CDAO), in coordination with the Undersecretary of Defense (Comptroller) and the Director of the Defense Innovation Unit, to submit a report to the congressional defense committees, not later than 60 days after the enactment of this Act, on a development, data, and deployment strategy of an appropriately secure web interface that can provide access to budget and acquisition data reporting to the congressional defense committees. The report shall include an analysis of any budgetary policy barriers to implementing this secure web interface. This language replaces the directives under this heading in House Report 118-121.

OFFICE OF STRATEGIC CAPITAL OVERSIGHT AND EXECUTABILITY

The agreement recognizes the objectives and promise of the Office of Strategic Capital (OSC). Given the congressional interest in the success of this office, a continued active dialogue between the OSC and the House and Senate Defense Appropriations Subcommittees is encouraged to ensure that the necessary authorities and funding mechanisms are available and proper oversight and execution of the same. Noting the importance of the Office of Strategic Capital, the agreement provides \$84,000,000, of which \$49,200,000 is for the loan program office as appropriated in section 8140 for the Department of Defense Credit Program Account. The loan program office shall only make direct loans, and such direct loans shall be limited to companies developing critical technologies.

BIOTECHNOLOGY MANUFACTURING INSTITUTES

The agreement includes the reporting requirement under this heading in House Report 118-121. However, the spend plan directed under this heading in House Report 118-121 is no longer required.

ALTERNATIVE BATTERY CHEMISTRY

The agreement directs the Deputy Secretary of Defense to provide a briefing to the congressional defense committees, not later than 120 days after the enactment of this Act, on potential alternatives or advanced battery chemistries to address strategic vulnerabilities and an assessment of the security risk associated with the sourcing of raw and processed materials from outside the United States. The brief shall also include the Department's plan to address these vulnerabilities, including the Department's projected timelines to increase domestic procurement of rechargeable batteries and battery cells, as well as an analysis of key factors limiting domestic procurement of rechargeable batteries and battery cells. This language replaces the directives under this heading in House Report 118–121.

OPERATIONAL TEST AND EVALUATION, DEFENSE

The agreement provides \$337,489,000 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	169,544	140,044
Program increase - browser plug-in security research		6,000
Transfer to line 3 per DOT&E request		-35,500
LIVE FIRE TESTING	103,252	103,252
OPERATIONAL TEST ACTIVITIES AND ANALYSIS	58,693	94,193
Transfer from line 1 per DOT&E request		35,500
TOTAL, OPERATIONAL TEST & EVALUATION, DEFENSE	331,489	337,489