

TITLE IV - RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The agreement provides \$69,784,665,000 in Title IV, Research, Development, Test and Evaluation. The agreement on items addressed by either the House or the Senate is as follows:

~~[insert RDTE summary table]~~

Insert 69A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
RECAPITULATION		
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY	6,924,959	7,565,327
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY	17,885,916	18,117,677
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE	26,473,669	25,217,148
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE	18,329,861	18,695,955
OPERATIONAL TEST AND EVALUATION, DEFENSE	170,558	188,558
GRAND TOTAL, RDT&E	69,784,963	69,784,665

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RESEARCH, DEVELOPMENT, TEST AND EVALUATION SPECIAL INTEREST ITEMS

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

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 will remain at \$20,000,000 for procurement and \$10,000,000 for 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.

F-16 RADAR UPGRADES

The long-term health of the active electronically scanned array radar industrial base remains a concern. Competition among multiple suppliers is important to reduce costs and improve performance. The Air Force is finalizing a competitive acquisition strategy to address phase one of the North American Aerospace Defense Command/United States Northern Command Joint Urgent Operational Need (JUON) NC-0008. The agreement provides \$40,000,000 to support the phase one competition. The agreement directs the Secretary of Defense, in coordination with the Secretary of the Air Force and the Commander of United States Northern Command, to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that details a competitive acquisition strategy for phase one of the JUON, the plan to address phase two, and the Air Force's radar modernization plan for the entire F-16 fleet.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

The agreement on items addressed by either the House or the Senate is as follows:

~~(INSERT COMPUTER TABLE)~~ _____ e

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

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVAL., ARMY		
1	BASIC RESEARCH	
	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	13,018 13,018
2	DEFENSE RESEARCH SCIENCES	239,118 279,118
3	UNIVERSITY RESEARCH INITIATIVES	72,603 72,603
4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	100,340 104,340
	TOTAL, BASIC RESEARCH	425,079 469,079
5	APPLIED RESEARCH	
	MATERIALS TECHNOLOGY	28,314 88,314
6	SENSORS AND ELECTRONIC SURVIVABILITY	38,374 58,374
7	TRACTOR HIP	6,879 6,879
8	AVIATION TECHNOLOGY	56,884 56,884
9	ELECTRONIC WARFARE TECHNOLOGY	19,243 19,243
10	MISSILE TECHNOLOGY	45,053 53,553
11	ADVANCED WEAPONS TECHNOLOGY	29,428 38,028
12	ADVANCED CONCEPTS AND SIMULATION	27,862 27,862
13	COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	68,839 98,439
14	BALLISTICS TECHNOLOGY	92,801 117,801
15	CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY	3,866 3,866
16	JOINT SERVICE SMALL ARMS PROGRAM	5,487 5,487
17	WEAPONS AND MUNITIONS TECHNOLOGY	48,340 83,340
18	ELECTRONICS AND ELECTRONIC DEVICES	55,301 64,301
19	NIGHT VISION TECHNOLOGY	33,807 38,807
20	COUNTERMINE SYSTEMS	25,068 36,568
21	HUMAN FACTORS ENGINEERING TECHNOLOGY	23,681 23,681
22	ENVIRONMENTAL QUALITY TECHNOLOGY	20,850 20,850
23	COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY	36,160 36,160
24	COMPUTER AND SOFTWARE TECHNOLOGY	12,656 12,656
25	MILITARY ENGINEERING TECHNOLOGY	63,409 80,909
26	HANPOWER/PERSONNEL/TRAINING TECHNOLOGY	24,735 24,735

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL	
27	WARFIGHTER TECHNOLOGY	35,795	39,295
28	MEDICAL TECHNOLOGY	76,853	76,853
	TOTAL, APPLIED RESEARCH	879,685	1,092,885
29	ADVANCED TECHNOLOGY DEVELOPMENT WARFIGHTER ADVANCED TECHNOLOGY	46,973	55,973
30	MEDICAL ADVANCED TECHNOLOGY	69,584	108,584
31	AVIATION ADVANCED TECHNOLOGY	69,736	103,136
32	WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	57,663	82,663
33	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY	113,071	135,571
34	SPACE APPLICATION ADVANCED TECHNOLOGY	5,554	5,554
35	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	12,636	12,636
37	TRACTOR HIKE	7,502	7,502
38	NEXT GENERATION TRAINING & SIMULATION SYSTEMS	17,425	17,425
39	TRACTOR ROSE	11,912	11,912
40	COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT	27,520	33,520
41	TRACTOR NAIL	2,381	2,381
42	TRACTOR EGGS	2,431	2,431
43	ELECTRONIC WARFARE TECHNOLOGY	26,874	32,874
44	MISSILE AND ROCKET ADVANCED TECHNOLOGY	49,449	104,449
45	TRACTOR CAGE	10,999	10,999
46	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	177,159	222,159
47	LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY	13,993	13,993
48	JOINT SERVICE SMALL ARMS PROGRAM	5,105	5,105
49	NIGHT VISION ADVANCED TECHNOLOGY	40,929	40,929
50	ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS	10,727	14,727
51	MILITARY ENGINEERING ADVANCED TECHNOLOGY	20,145	26,845
52	ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECHNOLOGY	38,163	38,163
53	COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHNOLOGY	37,816	37,816
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	895,747	1,127,347

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
54 DEMONSTRATION & VALIDATION		
ARMY MISSILE DEFENSE SYSTEMS INTEGRATION.....	10,347	29,347
55 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE).....	25,061	25,061
56 LANDMINE WARFARE AND BARRIER - ADV DEV.....	49,636	45,757
57 SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV.....	13,428	13,428
58 TANK AND MEDIUM CALIBER AMMUNITION.....	46,748	46,748
60 SOLDIER SUPPORT AND SURVIVABILITY.....	6,258	2,801
61 TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - AD.....	13,472	13,472
62 NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT.....	7,282	7,282
63 ENVIRONMENTAL QUALITY TECHNOLOGY.....	8,813	8,813
65 NATO RESEARCH AND DEVELOPMENT.....	6,075	6,075
67 LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV.....	21,233	21,233
68 MEDICAL SYSTEMS - ADV DEV.....	31,982	31,982
69 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT.....	22,194	22,004
71 ANALYSIS OF ALTERNATIVES.....	9,805	9,805
72 TECHNOLOGY MATURATION INITIATIVES.....	40,917	35,917
73 ASSURED POSITIONING, NAVIGATION AND TIMING (PNT).....	30,058	30,058
74 INDIRECT FIRE PROTECTION CAPABILITY INCREMENT 2-INTERC	155,361	155,361
TOTAL, DEMONSTRATION & VALIDATION.....	498,859	506,123

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[IN THOUSANDS OF DOLLARS]

	BUDGET REQUEST	FINAL BILL
76	ENGINEERING & MANUFACTURING DEVELOPMENT AIRCRAFT AVIONICS.....	12,939 18,639
78	ELECTRONIC WARFARE DEVELOPMENT.....	18,843 18,843
79	JOINT TACTICAL RADIO.....	9,861 4,546
80	MID-TIER NETWORKING VEHICULAR RADIO.....	8,763 8,763
81	ALL SOURCE ANALYSIS SYSTEM.....	4,309 4,309
82	TRACTOR CAGE.....	15,138 15,138
83	INFANTRY SUPPORT WEAPONS.....	74,128 89,661
85	JAVELIN.....	3,945 3,945
87	AIR TRAFFIC CONTROL.....	10,076 10,076
88	TACTICAL UNMANNED GROUND VEHICLE.....	40,374 15,374
89	NIGHT VISION SYSTEMS - SDD.....	67,582 67,582
90	COMBAT FEEDING, CLOTHING, AND EQUIPMENT.....	1,763 1,763
91	NON-SYSTEM TRAINING DEVICES - SDD.....	27,155 27,155
92	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD.....	24,569 34,569
93	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT.....	23,364 23,364
94	AUTOMATIC TEST EQUIPMENT DEVELOPMENT.....	8,960 8,960
95	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD.....	9,138 9,138
96	COMBINED ARMS TACTICAL TRAINER (CATT) CORE.....	21,622 21,622
97	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION.....	99,242 99,242
98	WEAPONS AND MUNITIONS - SDD.....	21,379 21,379
99	LOGISTICS AND ENGINEER EQUIPMENT - SDD.....	48,339 46,039
100	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD.....	2,726 2,726
101	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT.....	45,412 45,412
102	LANDMINE WARFARE/BARRIER - SDD.....	55,215 55,215
104	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE.....	163,643 131,899
105	RADAR DEVELOPMENT.....	12,309 12,309
106	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFBS).....	15,700 21,155
107	FIREFINDER.....	6,243 2,967
108	SOLDIER SYSTEMS - WARRIOR DEM/VAL.....	18,776 18,776

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
109 ARTILLERY SYSTEMS.....	1,953	1,953
110 INFORMATION TECHNOLOGY DEVELOPMENT.....	67,358	60,358
111 ARMY INTEGRATED MILITARY HUMAN RESOURCES SYSTEM (A-IMH)	136,011	121,011
112 ARMORED MULTI-PURPOSE VEHICLE.....	230,210	228,210
113 JOINT TACTICAL NETWORK CENTER (JTNC).....	13,357	13,357
114 JOINT TACTICAL NETWORK (JTN).....	18,055	18,055
115 TRACTOR TIRE.....	5,877	5,877
116 COMMON INFRARED COUNTERMEASURES (CIRCM).....	77,570	101,570
117 AIRCRAFT SURVIVABILITY DEVELOPMENT.....	18,112	78,112
118 WIN-T INCREMENT 3 - FULL NETWORKING.....	39,700	33,515
119 AMF JOINT TACTICAL RADIO SYSTEM.....	12,987	11,455
120 JOINT AIR-TO-GROUND MISSILE (JAGM).....	88,888	83,054
121 PAC-2/HSE MISSILE.....	2,272	2,272
122 ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD).....	214,099	222,099
123 MANNED GROUND VEHICLE.....	49,247	39,247
124 AERIAL COMMON SENSOR.....	2	2
125 NATIONAL CAPABILITIES INTEGRATION.....	10,599	10,599
126 JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING....	32,486	32,486
127 AVIATION GROUND SUPPORT EQUIPMENT.....	8,880	13,880
128 PALADIN INTEGRATED MANAGEMENT (PIM).....	152,288	152,288
129 TROJAN - RH12.....	5,022	5,022
130 ELECTRONIC WARFARE DEVELOPMENT.....	12,686	12,686
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	2,068,950	2,085,474

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
131 RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT	20,035	27,535
132 TARGET SYSTEMS DEVELOPMENT	16,684	16,684
133 MAJOR T&E INVESTMENT	62,580	66,580
134 RAND ARROYO CENTER	20,853	20,853
135 ARMY KWAJALEIN ATOLL	205,145	205,145
136 CONCEPTS EXPERIMENTATION PROGRAM	19,430	19,430
138 ARMY TEST RANGES AND FACILITIES	277,648	279,896
139 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	51,550	51,550
140 SURVIVABILITY/LETHALITY ANALYSIS	33,246	33,246
141 AIRCRAFT CERTIFICATION	4,760	4,760
142 METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	8,303	8,303
143 MATERIEL SYSTEMS ANALYSIS	20,403	20,403
144 EXPLOITATION OF FOREIGN ITEMS	10,396	10,396
145 SUPPORT OF OPERATIONAL TESTING	49,337	49,337
146 ARMY EVALUATION CENTER	52,694	52,694
147 SIMULATION & MODELING FOR ACQ, RQTS, & TNG (SMART)	938	938
148 PROGRAMWIDE ACTIVITIES	80,319	80,319
149 TECHNICAL INFORMATION ACTIVITIES	28,478	28,478
150 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	32,604	64,604
151 ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	3,186	3,186
152 MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT)	48,955	48,955
TOTAL, RDT&E MANAGEMENT SUPPORT	1,027,542	1,073,292

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
154 OPERATIONAL SYSTEMS DEVELOPMENT HLRS PRODUCT IMPROVEMENT PROGRAM.....	18,397	18,397
155 TRACTOR PULL.....	9,461	9,461
156 WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS....	4,945	4,945
157 TRACTOR SMOKE.....	7,569	7,569
158 APACHE BLOCK III.....	69,862	65,562
159 BLACKHAWK RECAP/MODERNIZATION.....	66,653	66,653
160 IMPROVED CARGO (CHINOOK) HELICOPTER.....	37,407	32,407
161 FIXED WING AIRCRAFT.....	1,151	1,151
162 IMPROVED TURBINE ENGINE PROGRAM.....	51,164	51,164
163 EMERGING TECHNOLOGIES FROM NIE.....	2,481	2,481
164 LOGISTICS AUTOMATION.....	1,673	1,673
166 FAMILY OF BIOMETRICS.....	13,237	13,237
167 PATRIOT PRODUCT IMPROVEMENT.....	105,816	89,816
169 AEROSTAT JOINT PROJECT OFFICE.....	40,565	10,565
171 JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM....	35,719	35,719
172 COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	257,167	354,667
173 MANEUVER CONTROL SYSTEM.....	15,445	15,445
175 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	364	364
176 DIGITIZATION.....	4,361	4,361
177 MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	3,154	3,154
178 OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS.....	35,951	35,951
179 TRACTOR CARD.....	34,686	34,686
180 INTEGRATED BASE DEFENSE - OPERATIONAL SYSTEM DEV.....	10,750	10,750
181 MATERIALS HANDLING EQUIPMENT.....	402	402
183 LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM.....	64,159	64,159
184 GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS).....	17,527	36,727

729

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
185 JOINT TACTICAL GROUND SYSTEM.....	20,515	20,515
187 SECURITY AND INTELLIGENCE ACTIVITIES.....	12,368	6,998
188 INFORMATION SYSTEMS SECURITY PROGRAM.....	31,154	31,154
189 GLOBAL COMBAT SUPPORT SYSTEM.....	12,274	21,574
190 SATCOM GROUND ENVIRONMENT (SPACE).....	9,355	9,355
191 WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM.....	7,053	7,053
193 INTEGRATED BROADCAST SERVICE (IBS).....	750	750
194 TACTICAL UNMANNED AERIAL VEHICLES.....	13,225	13,225
195 AIRBORNE RECONNAISSANCE SYSTEMS.....	22,870	22,870
196 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	25,592	25,592
199 RQ-7 UAV.....	7,297	11,797
201 WIN-T INCREMENT 2 - INITIAL NETWORKING.....	3,800	3,800
202 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	48,442	60,442
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,124,761	1,206,591
9999 CLASSIFIED PROGRAMS.....	4,536	4,536
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.....	6,924,959	7,565,327

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	FY 2016 Request	Final Bill
2 DEFENSE RESEARCH SCIENCES	239,118	279,118
Program increase - basic research		40,000
4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS	100,340	104,340
Program increase - basic research		4,000
5 MATERIALS TECHNOLOGY	28,314	68,314
Program increase		35,000
High performance polymers research		5,000
6 SENSORS AND ELECTRONIC SURVIVABILITY	38,374	58,374
Space and high altitude assets survivability		7,500
Program increase		12,500
10 MISSILE TECHNOLOGY	45,053	53,553
Program increase		8,500
11 ADVANCED WEAPONS TECHNOLOGY	29,428	38,028
Thermal management technology		8,600
13 COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	68,839	98,439
Program increase		9,600
Alternative energy research		20,000
14 BALLISTICS TECHNOLOGY	92,801	117,801
Improved armor technologies		5,000
Program increase		20,000
17 WEAPONS AND MUNITIONS TECHNOLOGY	48,340	83,340
Program increase		35,000
18 ELECTRONICS AND ELECTRONIC DEVICES	55,301	64,301
Program increase		9,000
19 NIGHT VISION TECHNOLOGY	33,807	38,807
Program increase		5,000
20 COUNTERMINE SYSTEMS	25,068	36,568
Program increase		4,000
Explosives detection technology		7,500
25 MILITARY ENGINEERING TECHNOLOGY	63,409	80,909
Program increase		12,500
Program increase		5,000
27 WARFIGHTER TECHNOLOGY	35,795	39,295
Program increase		3,500
29 WARFIGHTER ADVANCED TECHNOLOGY	46,973	55,973
Program increase		9,000
30 MEDICAL ADVANCED TECHNOLOGY	69,584	108,584
Peer-reviewed neurofibromatosis research		15,000
Peer-reviewed neurotoxin exposure treatment Parkinson's research		16,000
Peer-reviewed military burn research program		8,000

R-1		FY 2016 Request	Final Bill
31	AVIATION ADVANCED TECHNOLOGY	89,736	103,136
	Helicopter seat improvements		3,400
	Project 313 advanced rotary-wing technology future vertical lift		10,000
32	WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	57,663	82,663
	Program increase		15,000
	High energy laser research		10,000
33	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY	113,071	135,571
	Program increase		22,500
40	COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT	27,520	33,520
	Force protection radar development		6,000
43	ELECTRONIC WARFARE TECHNOLOGY	26,874	32,874
	Program increase		6,000
44	MISSILE AND ROCKET ADVANCED TECHNOLOGY	49,449	104,449
	Detection and mitigation of cyber and supply chain threats		10,000
	Program increase		45,000
46	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	177,159	222,159
	Program increase		45,000
50	ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS	10,727	14,727
	Program increase		4,000
51	MILITARY ENGINEERING ADVANCED TECHNOLOGY	20,145	26,845
	Program increase		4,200
	Natural gas research		2,500
54	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	10,347	29,347
	Prototype design for field trials and operational test and evaluation		5,000
	Program increase		14,000
56	LANDMINE WARFARE AND BARRIER - ADV DEV	49,636	45,757
	Test and evaluation funding ahead of need		-3,879
60	SOLDIER SUPPORT AND SURVIVABILITY	6,258	2,801
	Program decrease		-3,457
69	SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	22,194	22,994
	Program increase		800
72	TECHNOLOGY MATURATION INITIATIVES	40,917	35,917
	Prior year carryover		-5,000
76	AIRCRAFT AVIONICS	12,939	18,639
	VU3 networking and mission planning		15,000
	Network and Mission Planning, ALE-P - Army requested transfer to line 189		-9,300
79	JOINT TACTICAL RADIO	9,861	4,546
	Rifleman radio operational test delay		-5,315
83	INFANTRY SUPPORT WEAPONS	74,128	89,661
	Project S58 soldier enhancement program		10,000
	Program increase		1,800

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R-1		FY 2016 Request	Final Bill
	Modular handgun system - Army requested transfer from WTCV,A lines 18, 19, 22, and 29		1,500
	CROWS - Army requested transfer from PA,A line 3		952
	MK-19 Grenade Machine Gun Mods - Army requested transfer from WTCV,A line 23		1,281
88	TACTICAL UNMANNED GROUND VEHICLE EMD contract funding ahead of need	40,374	15,374 -25,000
92	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD C-RAM program	24,569	34,569 10,000
99	LOGISTICS AND ENGINEER EQUIPMENT Prior year carryover Program increase	48,339	46,039 -4,800 2,500
104	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE Tactical enhancement IOT&E funding ahead of need TNOM lack of acquisition strategy	163,643	131,899 -1,000 -30,744
106	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS) GFEBS-SA - Army requested transfer from OP,A line 102	15,700	21,155 5,455
107	FIREFINDER L88 prior year carryover	6,243	2,967 -3,276
110	INFORMATION TECHNOLOGY DEVELOPMENT Prior year execution	67,358	60,358 -7,000
111	INTEGRATED PERSONNEL AND PAY SYSTEM - ARMY Increment II release 2.0 contract delay	136,011	121,011 -15,000
112	ARMORED MULTI-PURPOSE VEHICLE Program management growth	230,210	226,210 -4,000
116	COMMON INFRARED COUNTERMEASURES (CIRCM) Apache upgrade	77,570	101,570 24,000
117	AIRCRAFT SURVIVABILITY DEVELOPMENT Apache upgrade	18,112	78,112 60,000
118	WIN-T INCREMENT 3 - FULL NETWORKING Prior year carryover due to contract delay	39,700	33,515 -6,185
119	AMF JOINT TACTICAL RADIO SYSTEM Army-identified excess due to Small Airborne Link-16 Terminal program restructure	12,987	11,455 -1,532
120	JOINT AIR-TO-GROUND MISSILE (JAGM) Contract award delay	88,866	83,054 -5,812
122	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD) Cybersecurity research	214,099	222,099 8,000
123	MANNED GROUND VEHICLE Ahead of need	49,247	39,247 -10,000

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R-1		FY 2016 Request	Final Bill
127	AVIATION GROUND SUPPORT EQUIPMENT Program increase	8,880	13,880 5,000
131	THREAT SIMULATOR DEVELOPMENT Program increase	20,035	27,535 7,500
133	MAJOR T&E INVESTMENT Cyber vulnerabilities research	62,580	66,580 4,000
138	ARMY TEST RANGES AND FACILITIES Program increase	277,646	279,896 2,250
150	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY Program increase Hybrid projectile technology	32,604	64,604 17,000 15,000
158	APACHE PRODUCT IMPROVEMENT PROGRAM Support costs prior year carryover	69,862	65,562 -4,300
160	IMPROVED CARGO (CHINOOK) HELICOPTER Prior year carryover	37,407	32,407 -5,000
167	PATRIOT PRODUCT IMPROVEMENT Only for near-term urgent improvements	105,816	89,816 -16,000
169	AEROSTAT JOINT PROJECT OFFICE Test schedule delay	40,565	10,565 -30,000
172	COMBAT VEHICLE IMPROVEMENT PROGRAMS Stryker lethality upgrades	257,167	354,667 97,500
184	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM Program increase Insensitive munition rocket motor research	17,527	36,727 5,000 14,200
187	SECURITY AND INTELLIGENCE ACTIVITIES Prior year carryover	12,368	6,998 -5,370
189	GLOBAL COMBAT SUPPORT SYSTEM Increment 2 - Army requested transfer from line 76	12,274	21,574 9,300
199	RQ-7 UAV Program increase	7,297	11,797 4,500
202	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES Army manufacturing technology program	48,442	60,442 12,000

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RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

The agreement on items addressed by either the House or the Senate is as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

insert 73A-P

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY		
BASIC RESEARCH		
1	UNIVERSITY RESEARCH INITIATIVES.....	116,196 146,196
2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	19,126 19,126
3	DEFENSE RESEARCH SCIENCES.....	451,606 506,606
	TOTAL, BASIC RESEARCH.....	586,928 671,928
APPLIED RESEARCH		
4	POWER PROJECTION APPLIED RESEARCH.....	68,723 87,223
5	FORCE PROTECTION APPLIED RESEARCH.....	154,983 178,663
6	MARINE CORPS LANDING FORCE TECHNOLOGY.....	49,001 51,708
7	COMMON PICTURE APPLIED RESEARCH.....	42,551 42,551
8	WARFIGHTER SUSTAINMENT APPLIED RESEARCH.....	45,056 45,056
9	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH.....	115,051 115,051
10	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH.....	42,252 72,252
11	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH.....	6,119 6,119
12	UNDERSEA WARFARE APPLIED RESEARCH.....	123,750 150,850
13	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV.....	179,686 179,686
14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH.....	37,418 37,418
	TOTAL, APPLIED RESEARCH.....	864,570 966,577

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
ADVANCED TECHNOLOGY DEVELOPMENT		
15 POWER PROJECTION ADVANCED TECHNOLOGY.....	37,093	37,093
16 FORCE PROTECTION ADVANCED TECHNOLOGY.....	38,044	38,044
17 ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY.....	34,899	34,899
18 MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)...	137,562	131,593
19 JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.....	12,745	12,745
20 FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV.....	258,860	285,860
21 MANUFACTURING TECHNOLOGY PROGRAM.....	57,074	57,074
22 WARFIGHTER PROTECTION ADVANCED TECHNOLOGY.....	4,807	38,307
23 UNDERSEA WARFARE ADVANCED TECHNOLOGY.....	13,748	13,748
24 NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.....	66,041	66,041
25 MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	1,091	3,491
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	862,864	696,895
DEMONSTRATION & VALIDATION		
26 AIR/OCEAN TACTICAL APPLICATIONS.....	41,832	37,832
27 AVIATION SURVIVABILITY.....	5,404	10,904
28 DEPLOYABLE JOINT COMMAND AND CONTROL.....	3,088	3,086
29 AIRCRAFT SYSTEMS.....	11,843	28,643
30 ASW SYSTEMS DEVELOPMENT.....	5,555	5,555
31 TACTICAL AIRBORNE RECONNAISSANCE.....	3,087	3,087
32 ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	1,836	1,836
33 SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	118,588	90,484
34 SURFACE SHIP TORPEDO DEFENSE.....	77,385	71,300
35 CARRIER SYSTEMS DEVELOPMENT.....	8,348	8,348
36 PILOT FISH.....	123,246	123,246
37 RETRACT LARCH.....	28,819	28,819
38 RETRACT JUNIPER.....	112,878	112,878
39 RADIOLOGICAL CONTROL.....	710	710
40 SURFACE ASW.....	1,098	1,098
41 ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	87,180	85,906
42 SUBMARINE TACTICAL WARFARE SYSTEMS.....	10,371	10,371

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
43 SHIP CONCEPT ADVANCED DESIGN.....	11,866	10,459
44 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	4,332	3,332
45 ADVANCED NUCLEAR POWER SYSTEMS.....	482,040	482,040
46 ADVANCED SURFACE MACHINERY SYSTEMS.....	25,804	24,154
47 CHALK EAGLE.....	511,802	511,802
48 LITTORAL COMBAT SHIP (LCS).....	118,416	91,416
48A FRIGATE DEVELOPMENT.....	---	30,000
49 COMBAT SYSTEM INTEGRATION.....	35,901	32,586
50 OHIO REPLACEMENT PROGRAM.....	971,393	971,393
51 LITTORAL COMBAT SHIP (LCS) MISSION PACKAGES.....	206,149	203,179
52 AUTOMATIC TEST AND RE-TEST.....	8,000	23,000
53 CONVENTIONAL MUNITIONS.....	7,678	7,678
54 MARINE CORPS ASSAULT VEHICLES.....	219,082	212,182
55 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	623	378
56 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	18,260	15,329
57 COOPERATIVE ENGAGEMENT.....	76,247	73,793
58 OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT.....	4,520	4,520
59 ENVIRONMENTAL PROTECTION.....	20,711	19,289
60 NAVY ENERGY PROGRAM.....	47,761	56,391
61 FACILITIES IMPROVEMENT.....	5,226	3,726
62 CHALK CORAL.....	182,771	174,771
63 NAVY LOGISTIC PRODUCTIVITY.....	3,866	3,866
64 RETRACT MAPLE.....	360,065	360,065
65 LINK PLUMERIA.....	237,416	237,416
66 RETRACT ELM.....	37,944	37,944
67 LINK EVERGREEN.....	47,312	47,312
68 SPECIAL PROCESSES.....	17,408	17,408
69 NATO RESEARCH AND DEVELOPMENT.....	9,359	8,320
70 LAND ATTACK TECHNOLOGY.....	887	887
71 JOINT NONLETHAL WEAPONS TESTING.....	29,448	29,448
72 JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	91,479	81,479

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
73. DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	67,360	41,730
74. GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER	48,105	98,105
75. REMOTE MINEHUNTING SYSTEM (RMS)	20,089	17,589
76. TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	18,969	18,969
77. ASE SELF-PROTECTION OPTIMIZATION	7,874	7,874
78. MH-XX	5,298	4,516
79. LX (R)	46,486	75,486
80. JOINT COUNTER RADIO CONTROLLED IED ELECTRONIC WARFARE	3,817	3,817
81. PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	9,595	9,595
82. SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE	29,581	20,246
83. OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT	285,849	285,849
84. JOINT LIGHT TACTICAL VEHICLE ENGINEERING/MANUFACTURING	36,656	32,156
85. ASW SYSTEMS DEVELOPMENT - MIP	9,835	9,835
86. ELECTRONIC WARFARE DEVELOPMENT - MIP	580	580
TOTAL, DEMONSTRATION & VALIDATION	5,024,626	5,023,613

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
87	ENGINEERING & MANUFACTURING DEVELOPMENT TRAINING SYSTEM AIRCRAFT.....	21,708 17,989
88	OTHER HELO DEVELOPMENT.....	11,101 11,101
89	AV-8B AIRCRAFT - ENG DEV.....	39,878 27,668
90	STANDARDS DEVELOPMENT.....	53,059 53,059
91	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT.....	21,358 18,858
92	AIR/OCEAN EQUIPMENT ENGINEERING.....	4,515 4,515
93	P-3 MODERNIZATION PROGRAM.....	1,514 1,514
94	WARFARE SUPPORT SYSTEM.....	5,875 5,875
95	TACTICAL COMMAND SYSTEM.....	81,553 73,553
96	ADVANCED HAWKEYE.....	272,149 217,649
97	H-1 UPGRADES.....	27,235 27,235
98	ACOUSTIC SEARCH SENSORS.....	35,763 31,263
99	V-22A.....	87,918 76,483
100	AIR CREW SYSTEMS DEVELOPMENT.....	12,879 12,879
101	EA-18.....	56,921 46,921
102	ELECTRONIC WARFARE DEVELOPMENT.....	23,686 20,113
103	VH-71A EXECUTIVE HELO DEVELOPMENT.....	507,093 507,093
104	NEXT GENERATION JAMMER (NGJ).....	411,767 387,770
104A	NEXT GENERATION JAMMER (NGJ) INCREMENT II.....	--- 13,000
105	JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY).....	25,071 25,071
106	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING.....	443,433 386,576
107	LPD-17 CLASS SYSTEMS INTEGRATION.....	747 747
108	SMALL DIAMETER BOMB (SDB).....	97,002 57,144
109	STANDARD MISSILE IMPROVEMENTS.....	129,649 115,649
110	AIRBORNE MCH.....	11,647 9,647
111	MARINE AIR GROUND TASK FORCE ELECTRONIC WARFARE.....	2,778 2,778
112	NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG.....	23,695 23,695
113	FUTURE UNMANNED CARRIER-BASED STRIKE SYSTEM.....	134,708 434,708
114	ADVANCED ABOVE WATER SENSORS.....	43,914 43,914
115	SSN-888 AND TRIDENT MODERNIZATION.....	109,908 109,908
116	AIR CONTROL.....	57,928 57,928

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
117 SHIPBOARD AVIATION SYSTEMS.....	120,217	120,217
118 AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM.....	241,754	232,754
119 NEW DESIGN SSN.....	122,558	157,058
120 SUBMARINE TACTICAL WARFARE SYSTEM.....	48,213	52,713
121 SHIP CONTRACT DESIGN/LIVE FIRE T&E.....	49,712	38,925
122 NAVY TACTICAL COMPUTER RESOURCES.....	4,096	4,096
123 VIRGINIA PAYLOAD MODULE (VPM).....	167,719	167,719
124 MINE DEVELOPMENT.....	15,122	15,122
125 LIGHTWEIGHT TORPEDO DEVELOPMENT.....	33,738	43,738
126 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	8,123	8,123
127 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS.....	7,886	7,886
128 JOINT STANDOFF WEAPON SYSTEMS.....	405	405
129 SHIP SELF DEFENSE (DETECT & CONTROL).....	153,836	145,336
130 SHIP SELF DEFENSE (ENGAGE: HARD KILL).....	99,619	86,811
131 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW).....	116,798	105,479
132 INTELLIGENCE ENGINEERING.....	4,353	2,053
133 MEDICAL DEVELOPMENT.....	9,443	25,291
134 NAVIGATION/ID SYSTEM.....	32,469	32,469
135 JOINT STRIKE FIGHTER (JSF) - EMD.....	537,901	537,901
136 JOINT STRIKE FIGHTER (JSF).....	504,736	504,736
137 JSF FOLLOW ON DEVELOPMENT-MARINE CORPS.....	59,285	20,798
138 JSF FOLLOW ON DEVELOPMENT-NAVY.....	47,579	21,200
139 INFORMATION TECHNOLOGY DEVELOPMENT.....	5,914	4,824
140 INFORMATION TECHNOLOGY DEVELOPMENT.....	89,711	85,816
141 CH-53K.....	632,092	592,317
142 SHIP TO SHORE CONNECTOR (SSC).....	7,778	7,778
143 JOINT AIR-TO-GROUND MISSILE (JAGM).....	25,898	25,898
144 MULTI-MISSION MARITIME AIRCRAFT (MMA).....	247,929	156,313
144A MULTI-MISSION MARITIME AIRCRAFT (MMA) INCREMENT 3.....	-	91,816
145 DDG-1000.....	103,199	103,199
146 TACTICAL COMMAND SYSTEM - MIP.....	998	998

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
147 TACTICAL CRYPTOLOGIC SYSTEMS.....	17,785	17,785
148 SPECIAL APPLICATIONS PROGRAM.....	35,905	35,905
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	6,308,800	6,275,180
RDT&E MANAGEMENT SUPPORT		
149 THREAT SIMULATOR DEVELOPMENT.....	30,789	30,789
150 TARGET SYSTEMS DEVELOPMENT.....	112,606	71,152
151 MAJOR T&E INVESTMENT.....	61,234	61,234
152 JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION....	6,995	6,995
153 STUDIES AND ANALYSIS SUPPORT - NAVY.....	4,011	4,011
154 CENTER FOR NAVAL ANALYSES.....	48,583	48,583
155 NEXT GENERATION FIGHTER.....	5,000	5,000
157 TECHNICAL INFORMATION SERVICES.....	925	925
158 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT.....	78,143	83,143
159 STRATEGIC TECHNICAL SUPPORT.....	3,258	3,258
160 RDT&E SCIENCE AND TECHNOLOGY MANAGEMENT.....	76,948	76,948
161 RDT&E SHIP AND AIRCRAFT SUPPORT.....	132,122	132,122
162 TEST AND EVALUATION SUPPORT.....	351,912	351,912
163 OPERATIONAL TEST AND EVALUATION CAPABILITY.....	17,985	17,985
164 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT.....	5,316	5,316
165 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT.....	6,519	6,519
166 MARINE CORPS PROGRAM WIDE SUPPORT.....	13,649	13,649
TOTAL, RDT&E MANAGEMENT SUPPORT.....	955,955	919,501

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
OPERATIONAL SYSTEMS DEVELOPMENT		
174 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	107,039	96,757
175 SSBN SECURITY TECHNOLOGY PROGRAM	46,506	46,506
176 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	3,900	4,700
177 NAVY STRATEGIC COMMUNICATIONS	16,569	16,569
178 RAPID TECHNOLOGY TRANSITION (RTT)	18,632	8,832
179 F/A-18 SQUADRONS	133,265	135,765
179 FLEET TELECOMMUNICATIONS (TACTICAL)	62,867	41,867
180 SURFACE SUPPORT	36,045	36,045
181 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)	25,228	25,228
182 INTEGRATED SURVEILLANCE SYSTEM	54,218	49,617
183 AMPHIBIOUS TACTICAL SUPPORT UNITS	11,335	11,335
184 GROUND/AIR TASK ORIENTED RADAR	80,129	65,629
185 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	39,087	34,329
186 CRYPTOLOGIC DIRECT SUPPORT	1,915	1,915
187 ELECTRONIC WARFARE (EW) READINESS SUPPORT	46,609	46,609
188 HARM IMPROVEMENT	52,708	23,708
189 TACTICAL DATA LINKS	149,997	142,497
190 SURFACE ASW COMBAT SYSTEM INTEGRATION	24,460	24,460
191 MK-48 ADCAP	42,206	47,706
192 AVIATION IMPROVEMENTS	117,759	106,259
194 OPERATIONAL NUCLEAR POWER SYSTEMS	101,323	101,323
195 MARINE CORPS COMMUNICATIONS SYSTEMS	67,763	78,392
196 COMMON AVIATION COMMAND AND CONTROL SYSTEM	13,431	13,431
197 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	56,769	48,653
199 MARINE CORPS COMBAT SERVICES SUPPORT	20,729	19,983
200 USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)	13,152	12,701
201 AMPHIBIOUS ASSAULT VEHICLE	48,535	45,110
202 TACTICAL AIM MISSILES	76,018	71,018
203 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	32,172	32,172
208 SATELLITE COMMUNICATIONS (SPACE)	53,239	47,439
209 CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES	21,677	21,677

73H

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
210 INFORMATION SYSTEMS SECURITY PROGRAM.....	28,102	28,102
211 WMCSS/GLOBAL COMMAND AND CONTROL SYSTEM.....	294	---
213 NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METOC)...	599	599
214 JOINT MILITARY INTELLIGENCE PROGRAMS.....	8,207	8,207
215 TACTICAL UNMANNED AERIAL VEHICLES.....	8,550	8,550
216 UAS INTEGRATION AND INTEROPERABILITY.....	41,831	41,831
217 DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS.....	1,105	1,105
218 DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS.....	33,149	23,149
219 RQ-4 UAV.....	227,188	227,188
227 RQ-4 MODERNIZATION.....	150,854	129,892
220 MQ-8 UAV.....	52,770	52,770
221 RQ-11 UAV.....	635	635
222 RQ-7 UAV.....	688	688
223 SMALL (LEVEL 0) TACTICAL UAS (STUASLO).....	4,647	4,647
224 RQ-21A.....	6,436	6,251
225 MULTI-INTELLIGENCE SENSOR DEVELOPMENT.....	49,145	39,845
226 UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP).....	9,246	9,246
227 MODELING AND SIMULATION SUPPORT.....	4,757	4,757
228 DEPOT MAINTENANCE (NON-IF).....	24,185	24,185
231 MARITIME TECHNOLOGY (MARITECH).....	4,321	4,321
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	2,229,988	2,071,798
9999 CLASSIFIED PROGRAMS.....	1,252,185	1,492,185
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY.....	17,885,918	16,117,077

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1	FY 2016 Request	Final Bill
1 UNIVERSITY RESEARCH INITIATIVES	116,196	146,196
Program increase - basic research		30,000
3 DEFENSE RESEARCH SCIENCES	451,606	506,606
Program increase - basic research		55,000
4 POWER PROJECTION APPLIED RESEARCH	68,723	87,223
Program increase - force protection research		5,000
Program increase		13,500
5 FORCE PROTECTION APPLIED RESEARCH	154,963	178,663
Program increase		3,700
Program increase - alternative energy research		20,000
6 MARINE CORPS LANDING FORCE TECHNOLOGY	49,001	51,708
Littoral combat/power projection unjustified request		-2,000
Maneuver unjustified growth		-1,293
Program increase - cyber research		6,000
10 OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	42,252	72,252
Program increase - AGOR mid life refit		30,000
12 UNDERSEA WARFARE APPLIED RESEARCH	123,750	150,850
Accelerate undersea warfare research		18,600
Program increase - underwater energetics research		8,500
MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION		
18 (ATD)	137,562	131,593
Littoral combat/power projection projects previously funded		-1,500
Maneuver unjustified growth		-1,100
C4 previously funded		-1,508
Fires, targeting, and maneuver previously funded		-1,157
ISR previously funded		-704
FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY		
20 DEVELOPMENT	258,860	265,860
Program increase - ASW research		7,000
22 WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,807	36,307
Program increase - bone marrow registry program		31,500
MINE AND EXPEDITIONARY WARFARE ADVANCED		
25 TECHNOLOGY	1,991	3,491
Program increase		1,500
26 AIR/OCEAN TACTICAL APPLICATIONS	41,832	37,832
NITES program growth		-4,000
27 AVIATION SURVIVABILITY	5,404	10,904
Program increase - unmanned system integration to national airspace system		5,500
29 AIRCRAFT SYSTEMS	11,643	26,643
Program increase - highly integrated photonics		15,000

(73J)

R-1		FY 2016 Request	Final Bill
33	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	118,588	90,484
	SSQ-94 trainer development growth		-1,500
	Mine hunting SUV craft fabrication		-10,400
	MEDAL development growth		-1,304
	SMCM UUV program delay		-2,000
	LDUUV product development		-12,900
34	SURFACE SHIP TORPEDO DEFENSE	77,385	71,300
	In-house systems engineering growth		-3,585
	Systems development growth		-2,500
41	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	87,160	85,906
	APB development growth		-3,000
	In-house stealth development growth		-4,454
	Universal launch and recovery module unfunded outyear tail		-3,800
	Program increase - advanced submarine control		10,000
43	SHIP CONCEPT ADVANCED DESIGN	11,888	10,459
	Program execution		-1,429
44	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	4,332	3,332
	Program execution		-1,000
46	ADVANCED SURFACE MACHINERY SYSTEMS	25,904	24,154
	Program execution		-1,750
48	LITTORAL COMBAT SHIP (LCS)	118,416	91,416
	System of systems engineering development growth		-3,000
	Test and evaluation delays		-6,000
	Support growth		-3,000
	Program increase - LCS training courseware		15,000
	Frigate development - transfer to line 48X		-30,000
48X	FRIGATE DEVELOPMENT	0	30,000
	Frigate development - transfer from line 48		30,000
49	COMBAT SYSTEM INTEGRATION	35,901	32,588
	Interoperability and assessment delays		-3,313
51	LITTORAL COMBAT SHIP (LCS) MISSION PACKAGES	206,149	203,179
	Remove ASW operational assesement of non-requirements-compliant developmental asset		-12,970
	Program increase - small business technology insertion		10,000
52	AUTOMATED TEST AND RE-TEST	8,000	23,000
	Program increase - automated test and re-test		15,000
54	MARINE CORPS ASSAULT VEHICLES	219,082	212,182
	Program support excess growth		-2,900
	GFE funds carryover		-4,000
55	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	623	378
	SMAW follow-on unjustified request		-245

73K

R-1		FY 2016 Request	Final Bill
56	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	18,260	15,329
	Program execution		-2,931
57	COOPERATIVE ENGAGEMENT	76,247	73,793
	Program execution		-2,454
59	ENVIRONMENTAL PROTECTION	20,711	19,289
	Environmental sustainability development growth		-1,422
60	NAVY ENERGY PROGRAM	47,761	56,391
	Program execution		-3,870
	Program increase		12,500
61	FACILITIES IMPROVEMENT	5,226	3,726
	Expeditionary environmental control unit growth		-1,500
62	CHALK CORAL	182,771	174,771
	Classified adjustment		-8,000
69	NATO RESEARCH AND DEVELOPMENT	9,359	8,320
	Program execution		-1,039
72	JOINT PRECISION APPROACH AND LANDING SYSTEMS	91,479	81,479
	Program restructure		-10,000
73	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	67,360	41,730
	Railgun excess support		-6,000
	Long lead materials, non-competitive effort, and technology maturation for test event in fiscal year 2019		-19,630
74	GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER	48,105	98,105
	Full ship shock trial for CVN-78		50,000
75	REMOTE MINEHUNTING SYSTEM (RMS)	20,089	17,589
	Excess support		-2,500
78	MH-XX	5,298	4,516
	Fiscal year 2015 new start delay		-782
79	LX (R)	46,486	75,486
	Accelerate LX (R)		29,000
	SPACE & ELECTRONIC WARFARE (SEW)		
82	ARCHITECTURE/ENGINE	29,581	20,246
	Maritime concept generation and development growth		-5,000
	Project 2140 adjustment		-4,335
	JOINT LIGHT TACTICAL VEHICLE		
84	ENGINEERING/MANUFACTURING	36,656	32,156
	Support engineering excess growth		-4,500
87	TRAINING SYSTEM AIRCRAFT	21,708	17,989
	Program execution		-3,719

73L

R-1		FY 2016 Request	Final Bill
89	AV-8B AIRCRAFT - ENG DEV	39,878	27,668
	OFP and avionics weapons system development growth		-5,000
	Final fit AIM-120C new start lack of full funding		-7,210
91	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	21,358	18,858
	Program support growth		-2,500
95	TACTICAL COMMAND SYSTEM	81,553	73,553
	Joint mission planning system contract delay (project 2213)		-8,000
96	ADVANCED HAWKEYE	272,149	217,649
	NAWCAD engineering and test support growth		-6,000
	Defer delta system/software configuration 4 new starts due to aerial refueling cost and effort		-26,100
	Defer delta system/software configuration 5 non-counter electronic attack growth		-30,900
	Program increase - radar development		8,500
98	ACOUSTIC SEARCH SENSORS	35,763	31,263
	Support growth		-4,500
99	V-22A	87,918	76,483
	Software reprogrammable payload growth		-6,000
	Program execution		-5,435
101	EA-18	56,921	46,921
	EA-18G flight plan growth		-10,000
102	ELECTRONIC WARFARE DEVELOPMENT	23,685	20,113
	Jammer techniques optimization cost growth		-3,572
104	NEXT GENERATION JAMMER (NGJ)	411,767	387,770
	Software integration contract delay		-10,997
	Next generation jammer increment II - transfer to line 104X		-13,000
104X	NEXT GENERATION JAMMER INCREMENT II	0	13,000
	Next generation jammer increment II - transfer from line 104		13,000
106	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	443,433	386,576
	Aegis development support growth		-12,000
	Program execution		-10,357
	ACB-16 post-preliminary design review requirements growth		-28,000
	Far-term interoperability improvement plan		-6,500
108	SMALL DIAMETER BOMB (SDB)	97,002	57,144
	F-18 integration contract delay		-12,358
	Joint miniature munitions bomb rack contract delay		-3,500
	Retain previous SDB increment II integration schedule to reduce risk of H14+ integration schedule		-24,000
109	STANDARD MISSILE IMPROVEMENTS	129,649	115,649
	Excess SM-6 design and analysis		-14,000

(73M)

R-1		FY 2016 Request	Final Bill
110	AIRBORNE MCM	11,647	9,647
	Program execution		-2,000
113	UNMANNED CARRIER-BASED STRIKE SYSTEM	134,708	434,708
	Program increase - competitive air vehicle risk reduction activities		250,000
	Program increase - government and industry source selection preparation		50,000
118	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	241,754	232,754
	Program execution		-9,000
119	NEW DESIGN SSN	122,556	157,056
	HM&E test and evaluation growth		-3,000
	Program increase - small business technology insertion		12,500
	Program increase - Virginia Class Submarine hydrodynamic enhancements		25,000
120	SUBMARINE TACTICAL WARFARE SYSTEM	48,213	52,713
	Support growth		-5,000
	Combat and weapon system modernization acceleration		9,500
121	SHIP CONTRACT DESIGN/LIVE FIRE T&E	49,712	38,925
	Program execution		-3,827
	Dual band radar integration ahead of need (project 3108)		-6,960
125	LIGHTWEIGHT TORPEDO DEVELOPMENT	33,738	43,738
	Program increase - small business technology insertion		10,000
129	SHIP SELF DEFENSE (DETECT & CONTROL)	153,836	145,336
	Fire control loop improvement project phase 2 unjustified program scope expansion		-8,500
130	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	99,619	86,811
	Program execution		-8,508
	Block II excess funding		-8,000
	Program increase - shield protection		3,700
131	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	116,798	105,479
	Program execution		-11,319
132	INTELLIGENCE ENGINEERING	4,353	2,053
	Program growth		-2,300
133	MEDICAL DEVELOPMENT	9,443	25,291
	Program increase - military dental research		6,000
	Program increase - wound care research		10,000
	Program support unjustified growth		-152
137	JSF FOLLOW ON DEVELOPMENT-MARINE CORPS	59,265	20,798
	Program growth		-38,467
138	JSF FOLLOW ON DEVELOPMENT-NAVY	47,579	21,200
	Program growth		-26,379
139	INFORMATION TECHNOLOGY DEVELOPMENT	5,914	4,824
	Risk management initiative unjustified request		-790
	Paperless acquisition unjustified growth		-300

(73N)

R-1		FY 2016 Request	Final Bill
140	INFORMATION TECHNOLOGY DEVELOPMENT	89,711	85,816
	Program execution		-7,895
	Program increase		4,000
141	CH-53K	632,092	592,317
	Program execution		-39,775
144	MULTI-MISSION MARITIME AIRCRAFT (MMA)	247,929	156,313
	Program increase - small business technology insertion		12,500
	Increment 3 - transfer to line 144X		-104,116
144X	MULTI-MISSION MARITIME AIRCRAFT INCREMENT 3	0	91,616
	Increment 3 - transfer from line 144		104,116
	Contract delay		-12,500
150	TARGET SYSTEMS DEVELOPMENT	112,606	71,152
	Parrotfish program termination		-4,054
	GQM-173A acquisition strategy		-31,000
	GQM-173A termination		-6,400
158	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	78,143	83,143
	Program increase - printed circuit board executive agent		5,000
174	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	107,039	96,757
	Program execution		-10,282
176	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	3,900	4,700
	Combat rapid attack weapon program acceleration		800
178	RAPID TECHNOLOGY TRANSITION (RTT)	18,632	8,632
	TIPS program growth		-10,000
179	F/A-18 SQUADRONS	133,265	135,765
	Support growth		-9,000
	Program increase - dual mode brimstone integration		10,000
	Program increase - noise reduction research		1,500
181	FLEET TELECOMMUNICATIONS (TACTICAL)	62,867	41,867
	Joint aerial layer network growth		-9,200
	JALN-M demonstration		-11,800
184	INTEGRATED SURVEILLANCE SYSTEM	54,218	49,617
	Program execution		-4,601
186	GROUND/AIR TASK ORIENTED RADAR	80,129	65,629
	Block II test assets ahead of need		-14,500
187	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	39,087	34,329
	Tactical combat training system contract delay		-4,758
190	HARM IMPROVEMENT	52,708	23,708
	AARGM extended range acquisition strategy		-29,000
191	TACTICAL DATA LINKS	149,997	142,497
	Common data link contract delay		-7,500

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R-1		FY 2016 Request	Final Bill
193	MK-48 ADCAP Upgrade program acceleration	42,206	47,706 5,500
194	AVIATION IMPROVEMENTS F-135 program growth	117,759	106,259 -11,500
196	MARINE CORPS COMMUNICATIONS SYSTEMS Project 2270 unjustified growth Project 2276 unjustified growth Program increase - radar enhancements	67,763	78,392 -2,036 -335 13,000
198	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS Project 2086 unjustified request Project 2112 unjustified request Project 2315 program delay Project 2503 unfunded outyear procurement tail Project 2928 excess growth	56,769	48,653 -1,000 -207 -2,718 -2,809 -1,382
199	MARINE CORPS COMBAT SERVICES SUPPORT Project 2509 unjustified growth	20,729	19,983 -746
200	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP) Project 2272 unjustified growth	13,152	12,701 -451
201	AMPHIBIOUS ASSAULT VEHICLE Excess support costs	48,535	45,110 -3,425
202	TACTICAL AIM MISSILES Unjustified program growth	76,016	71,016 -5,000
208	SATELLITE COMMUNICATIONS (SPACE) JALN-M demonstration	53,239	47,439 -5,800
211	WWWCCS/GLOBAL COMMAND AND CONTROL SYSTEM Program termination	294	0 -294
218	DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS Defer DCGS-N increment II growth pending completion of acquisition/resourcing strategy	33,149	23,149 -10,000
224	RQ-21A Government engineering support unjustified growth	6,435	6,251 -184
225	MULTI-INTELLIGENCE SENSOR DEVELOPMENT P-8 quick reaction capability scope expansion	49,145	39,645 -9,500
227	RQ-4 MODERNIZATION Program execution	150,854	129,892 -20,962
999	CLASSIFIED PROGRAMS Classified programs	1,252,185	1,492,185 240,000

73P

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

The agreement on items addressed by either the House or the Senate is as follows:

~~(INSERT COMPUTER TABLE)~~

~~(INSERT PROJECT LEVEL TABLE)~~

insert 74A-M

E-8 JOINT SURVEILLANCE TARGET ATTACK RADAR SYSTEM

The agreement directs the Secretary of the Air Force to submit a report on modifications to the E-8 Joint Surveillance Target Attack Radar System (JSTARS) fleet to the congressional defense committees not later than 30 days after the submission of the fiscal year 2017 budget request. This report shall detail how the Air Force will address global air traffic management mandates, as well as other modifications required to meet warfighter requirements and avoid mission performance degradation due to diminishing manufacturing sources, until the E-8 is replaced by the Next Generation JSTARS system. The report shall include schedules and annual funding requirements for each modification effort. This language replaces the reporting requirements regarding the legacy E-8 fleet under the headings “E-8 JSTARS” in House Report 114-139 and “Joint Surveillance and Target Attack Radar System (JSTARS)” in Senate Report 114-63.

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE		
1	BASIC RESEARCH DEFENSE RESEARCH SCIENCES.....	329,721 374,721
2	UNIVERSITY RESEARCH INITIATIVES.....	141,754 141,754
3	HIGH ENERGY LASER RESEARCH INITIATIVES.....	13,778 13,778
	TOTAL, BASIC RESEARCH.....	485,253 530,253
4	APPLIED RESEARCH MATERIALS.....	125,234 133,734
5	AEROSPACE VEHICLE TECHNOLOGIES.....	123,438 123,438
6	HUMAN EFFECTIVENESS APPLIED RESEARCH.....	100,530 110,530
7	AEROSPACE PROPULSION.....	182,326 185,926
8	AEROSPACE SENSORS.....	147,291 152,291
9	SPACE TECHNOLOGY.....	116,122 109,122
10	CONVENTIONAL MUNITIONS.....	99,851 99,851
11	DIRECTED ENERGY TECHNOLOGY.....	115,804 115,804
12	DOMINANT INFORMATION SCIENCES AND METHODS.....	164,909 169,409
13	HIGH ENERGY LASER RESEARCH.....	42,037 42,037
	TOTAL, APPLIED RESEARCH.....	1,217,342 1,241,942
14	ADVANCED TECHNOLOGY DEVELOPMENT ADVANCED MATERIALS FOR WEAPON SYSTEMS.....	37,665 46,665
15	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T).....	18,378 18,378
16	ADVANCED AEROSPACE SENSORS.....	42,183 42,183
17	AEROSPACE TECHNOLOGY DEV/DENO.....	100,733 100,733
18	AEROSPACE PROPULSION AND POWER TECHNOLOGY.....	168,821 178,821
19	ELECTRONIC COMBAT TECHNOLOGY.....	47,032 47,032
20	ADVANCED SPACECRAFT TECHNOLOGY.....	54,897 61,897
21	MAUI SPACE SURVEILLANCE SYSTEM (MSSS).....	12,853 12,853
22	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT...	25,448 25,448

74A

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
23 CONVENTIONAL WEAPONS TECHNOLOGY.....	48,536	43,036
24 ADVANCED WEAPONS TECHNOLOGY.....	30,195	35,195
25 MANUFACTURING TECHNOLOGY PROGRAM.....	42,630	52,630
26 BATTLESPACE KNOWLEDGE DEVELOPMENT & DEMONSTRATION.....	48,414	46,414
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	675,785	711,285
27 ADVANCED COMPONENT DEVELOPMENT INTELLIGENCE ADVANCED DEVELOPMENT.....	5,032	5,032
29 SPACE CONTROL TECHNOLOGY.....	4,070	4,070
30 COMBAT IDENTIFICATION TECHNOLOGY.....	21,790	21,790
31 NATO RESEARCH AND DEVELOPMENT.....	4,736	4,736
33 SPACE PROTECTION PROGRAM (SPP).....	30,771	30,771
34 INTERCONTINENTAL BALLISTIC MISSILE.....	39,765	39,765
36 LONG RANGE STRIKE.....	1,246,228	736,228
37 TECHNOLOGY TRANSFER.....	3,512	7,612
38 HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM.....	54,637	54,637
40 WEATHER SATELLITE FOLLOW-ON.....	76,108	56,108
44 OPERATIONALLY RESPONSIVE SPACE.....	6,457	18,457
45 TECH TRANSITION PROGRAM.....	246,514	288,514
46 GROUND BASED STRATEGIC DETERRENT.....	75,166	75,166
49 NEXT GENERATION AIR DOMINANCE.....	8,830	8,830
50 THREE DIMENSIONAL LONG-RANGE RADAR.....	14,939	8,138
51 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT).....	142,288	142,288
52 CYBER OPERATIONS TECHNOLOGY DEVELOPMENT.....	81,732	83,732
TOTAL, ADVANCED COMPONENT DEVELOPMENT.....	2,062,575	1,573,875

74B

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
55	ENGINEERING & MANUFACTURING DEVELOPMENT ELECTRONIC WARFARE DEVELOPMENT.....	929 929
56	TACTICAL DATA NETWORKS ENTERPRISE.....	60,256 60,256
57	PHYSICAL SECURITY EQUIPMENT.....	5,973 5,973
58	SMALL DIAMETER BOMB (SDB).....	32,624 29,224
59	COUNTERSPACE SYSTEMS.....	24,208 24,208
60	SPACE SITUATION AWARENESS SYSTEMS.....	32,374 29,374
61	SPACE FENCE.....	243,909 241,409
62	AIRBORNE ELECTRONIC ATTACK.....	8,358 8,358
63	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD.....	292,235 292,235
64	ARMAMENT/ORDNANCE DEVELOPMENT.....	40,154 37,654
65	SUBMUNITIONS.....	2,506 2,506
66	AGILE COMBAT SUPPORT.....	57,678 56,178
67	LIFE SUPPORT SYSTEMS.....	8,187 8,187
68	COMBAT TRAINING RANGES.....	15,795 11,795
69	F-35 - EMD.....	589,441 589,441
71	EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE).....	84,438 228,038
72	LONG RANGE STANDOFF WEAPON.....	36,843 18,143
73	ICBM FUZE MODERNIZATION.....	142,551 142,551
74	F-22 MODERNIZATION INCREMENT 3.28.....	140,640 140,640
75	GROUND ATTACK WEAPONS FUZE DEVELOPMENT.....	3,598 3,598
76	NEXT GENERATION AERIAL REFUELING AIRCRAFT KC-46.....	602,364 592,364

740

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL	
77	ADVANCED PILOT TRAINING	11,395	10,395
78	CSAR HH-60 RECAPITALIZATION	156,085	156,085
80	ADVANCED EHF MILSATCOM (SPACE)	228,230	228,230
81	POLAR MILSATCOM (SPACE)	72,084	72,084
82	WIDEBAND GLOBAL SATCOM (SPACE)	56,343	52,343
83	AIR AND SPACE OPS CENTER 10 2	47,629	47,629
84	B-2 DEFENSIVE MANAGEMENT SYSTEM	271,961	271,961
85	NUCLEAR WEAPONS MODERNIZATION	212,121	212,121
86	F-15 EPAWSS	166,481	180,681
87	FULL COMBAT MISSION TRAINING	18,082	18,082
88	COMBAT SURVIVOR EVADER LOCATOR	993	993
89	NEXTGEN JSTARS	44,343	44,343
91	PRESIDENTIAL AIRCRAFT REPLACEMENT	102,620	82,420
92	AUTOMATED TEST SYSTEMS	14,563	14,563
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	3,847,791	3,912,991

74D

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
93 RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT	23,844	23,844
94 MAJOR T&E INVESTMENT	68,302	73,302
95 RAND PROJECT AIR FORCE	34,918	34,918
97 INITIAL OPERATIONAL TEST & EVALUATION	10,476	10,476
98 TEST AND EVALUATION SUPPORT	673,908	683,308
99 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	21,858	21,858
100 SPACE TEST PROGRAM (STP)	28,228	28,228
101 FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL	40,518	40,518
102 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT	27,895	27,895
103 REQUIREMENTS ANALYSIS AND MATURATION	16,507	22,507
104 SPACE TEST AND TRAINING RANGE DEVELOPMENT	18,997	18,997
106 SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE	185,305	176,727
107 ENTERPRISE INFORMATION SERVICES (EIS)	4,841	3,841
108 ACQUISITION AND MANAGEMENT SUPPORT	15,357	15,357
109 GENERAL SKILL TRAINING	1,315	1,315
111 INTERNATIONAL ACTIVITIES	2,315	2,315
TOTAL, RDT&E MANAGEMENT SUPPORT	1,174,584	1,185,406

74E

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
OPERATIONAL SYSTEMS DEVELOPMENT		
112 GPS III - OPERATIONAL CONTROL SEGMENT.....	350,232	350,232
113 SPECIALIZED UNDERGRADUATE FLIGHT TRAINING.....	10,465	8,565
114 WIDE AREA SURVEILLANCE.....	24,577	22,577
117 AIR FORCE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM..	69,694	31,694
118 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY.....	26,718	26,718
119 HC/MC-130 RECAP RDT&E.....	10,807	10,807
121 B-52 SQUADRONS.....	74,520	74,520
122 AIR-LAUNCHED CRUISE MISSILE (ALCM).....	451	451
123 B-1B SQUADRONS.....	2,245	2,245
124 B-2 SQUADRONS.....	108,183	108,183
125 MINUTEMAN SQUADRONS.....	178,928	166,728
126 STRAT WAR PLANNING SYSTEM - USSTRATCOM.....	28,481	28,481
127 NIGHT FIST - USSTRATCOM.....	87	87
128 WORLDWIDE JOINT STRATEGIC COMMUNICATIONS.....	5,315	5,315
131 SERVICE SUPPORT TO STRATCOM - SPACE ACTIVITIES.....	8,090	8,090
132 MQ-9 UAV.....	123,439	123,439
A-10 SQUADRONS.....	---	16,200
135 F-16 SQUADRONS.....	148,297	166,297
136 F-15E SQUADRONS.....	179,283	205,979
137 MANNED DESTRUCTIVE SUPPRESSION.....	14,860	14,860
138 F-22 SQUADRONS.....	282,552	232,552
139 F-35 SQUADRONS.....	115,395	53,921
140 TACTICAL AIM MISSILES.....	43,360	43,360
141 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	46,160	46,160
143 COMBAT RESCUE AND RECOVERY.....	412	412
144 COMBAT RESCUE - PARARESCUE.....	657	657
145 AF TENCAP.....	31,428	31,428
146 PRECISION ATTACK SYSTEMS PROCUREMENT.....	1,105	1,105
147 COMPASS CALL.....	14,249	14,249
148 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	103,942	103,942

74F

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
149 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM).....	12,793	9,793
150 AIR AND SPACE OPERATIONS CENTER (ADC)	21,193	21,193
151 CONTROL AND REPORTING CENTER (CRC).....	559	559
152 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS).....	161,812	131,812
153 TACTICAL AIRBORNE CONTROL SYSTEMS.....	6,001	6,001
155 COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES.....	7,793	6,793
156 TACTICAL AIR CONTROL PARTY--MOD.....	12,465	12,465
157 C2ISR TACTICAL DATA LINK.....	1,681	1,681
159 DCAPES	18,796	16,796
161 SEEK EAGLE.....	21,564	21,564
162 USAF MODELING AND SIMULATION	24,994	24,994
163 WARGAMING AND SIMULATION CENTERS.....	6,035	6,035
164 DISTRIBUTED TRAINING AND EXERCISES.....	4,358	4,358
165 MISSION PLANNING SYSTEMS.....	55,835	55,835
167 AF OFFENSIVE CYBERSPACE OPERATIONS.....	12,874	12,874
168 AF DEFENSIVE CYBERSPACE OPERATIONS.....	7,681	7,681
171 GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN)	5,974	5,974
177 SPACE SUPERIORITY INTELLIGENCE.....	13,815	12,315
178 E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NADC).....	80,360	76,760
179 FAMILY OF ADVANCED BLoS TERMINALS (FAB-T).....	3,907	3,907
180 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK...	75,062	75,062
181 INFORMATION SYSTEMS SECURITY PROGRAM.....	46,599	46,599
183 GLOBAL COMBAT SUPPORT SYSTEM	2,470	2,470
186 AIRBORNE SIGINT ENTERPRISE.....	112,775	112,775
189 GLOBAL AIR TRAFFIC MANAGEMENT (GATH)	4,235	4,235
192 SATELLITE CONTROL NETWORK (SPACE).....	7,879	7,879
193 WEATHER SERVICE.....	29,955	29,955

746

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
194 AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC)	21,485	19,485
195 AERIAL TARGETS	2,515	2,515
198 SECURITY AND INVESTIGATIVE ACTIVITIES	472	472
199 ARMS CONTROL IMPLEMENTATION	12,137	9,137
200 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	361	361
203 SPACE AND MISSILE TEST AND EVALUATION CENTER	3,162	3,162
204 SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT	1,543	1,543
205 INTEGRATED BROADCAST SERVICE	7,860	7,860
206 SPACELIFT RANGE SYSTEM (SPACE)	6,902	6,902
207 DRAGON U-2	34,471	34,471
ENDURANCE UNMANNED AERIAL VEHICLES		5,000
209 AIRBORNE RECONNAISSANCE SYSTEMS	50,154	60,154
210 MANNED RECONNAISSANCE SYSTEMS	13,245	13,245
211 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	22,784	22,784
212 PREDATOR UAV (JMIP)	716	
213 RQ-4 UAV	208,053	188,053
214 NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA)	21,587	19,587
215 COMMON DATA LINK (CDL)	43,986	43,986
216 NATO AGS	197,486	138,400
217 SUPPORT TO DCGS ENTERPRISE	28,434	28,434
218 GPS III SPACE SEGMENT	180,902	180,902
220 JSPOC MISSION SYSTEM	81,911	80,911
221 RAPID CYBER ACQUISITION	3,149	3,149
222 NUDET DETECTION SYSTEM (SPACE)	14,447	14,447
223 SPACE SITUATION AWARENESS OPERATIONS	20,077	20,077
225 SHARED EARLY WARNING (SEW)	853	853
226 C-130 AIRLIFT SQUADRON	33,962	33,962
227 C-5 AIRLIFT SQUADRONS	42,864	22,864
228 C-17 AIRCRAFT	54,807	48,807
229 C-130J PROGRAM	31,010	25,010

74H

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
230 LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)	6,802	6,802
231 KC-10S	1,799	1,799
232 OPERATIONAL SUPPORT AIRLIFT	48,453	46,453
233 CV-22	36,576	27,776
235 SPECIAL TACTICS / COMBAT CONTROL	7,963	7,963
236 DEPOT MAINTENANCE (NON-IF)	1,525	1,525
237 LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	112,676	68,400
238 SUPPORT SYSTEMS DEVELOPMENT	12,657	12,657
239 OTHER FLIGHT TRAINING	1,836	1,836
240 OTHER PERSONNEL ACTIVITIES	121	121
241 JOINT PERSONNEL RECOVERY AGENCY	5,911	5,911
242 CIVILIAN COMPENSATION PROGRAM	3,604	3,604
243 PERSONNEL ADMINISTRATION	4,598	4,598
244 AIR FORCE STUDIES AND ANALYSIS AGENCY	1,103	1,103
246 FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	101,840	95,540
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	4,230,197	3,940,241
9999 CLASSIFIED PROGRAMS	12,780,142	12,121,155
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE	26,473,669	25,217,148

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[in thousands of dollars]

R-1	FY 2016 Request	Final Bill
1 DEFENSE RESEARCH SCIENCES Basic research program increase	329,721	374,721 45,000
4 MATERIALS Air Force Education and Outreach Program	125,234	133,734 8,500
6 HUMAN EFFECTIVENESS APPLIED RESEARCH Program increase	100,530	110,530 10,000
7 AEROSPACE PROPULSION Program increase	182,326	185,926 3,600
8 AEROSPACE SENSORS Program increase	147,291	152,291 5,000
9 SPACE TECHNOLOGY Excess to need	116,122	109,122 -7,000
12 DOMINANT INFORMATION SCIENCES AND METHODS Program increase	164,909	169,409 4,500
14 ADVANCED MATERIALS FOR WEAPON SYSTEMS Program increase for metals affordability research	37,665	46,665 9,000
18 AEROSPACE PROPULSION AND POWER TECHNOLOGY Program increase for silicon carbide research	168,821	178,821 10,000
20 ADVANCED SPACECRAFT TECHNOLOGY Program increase	54,897	61,897 7,000
23 CONVENTIONAL WEAPONS TECHNOLOGY Forward financing	48,536	43,036 -5,500
24 ADVANCED WEAPONS TECHNOLOGY Counter-electronics high power microwave advanced missile	30,195	35,195 5,000
25 MANUFACTURING TECHNOLOGY PROGRAM Program increase	42,630	52,630 10,000
36 LONG RANGE STRIKE Rephase funds to current schedule	1,246,228	736,228 -510,000
37 TECHNOLOGY TRANSFER Program increase	3,512	7,612 4,100
40 WEATHER SYSTEM FOLLOW-ON Ahead of need	76,108	56,108 -20,000
44 OPERATIONALLY RESPONSIVE SPACE Program increase	6,457	18,457 12,000
45 TECH TRANSITION PROGRAM Alternative energy research	246,514	266,514 20,000
50 THREE DIMENSIONAL LONG RANGE RADAR Test and evaluation support ahead of need	14,939	8,139 -6,800

745

R-1		FY 2016 Request	Final Bill
52	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT Increase USCC cyber operations tech development	81,732	93,732 12,000
58	SMALL DIAMETER BOMB EMD funds excess to need	32,624	29,224 -3,400
60	SPACE SITUATION AWARENESS SYSTEMS Excess to need	32,374	29,374 -3,000
61	SPACE FENCE Unjustified increase	243,909	241,409 -2,500
64	ARMAMENT/ORDNANCE DEVELOPMENT Slow execution	40,154	37,654 -2,500
66	AGILE COMBAT SUPPORT Program increase Forward financing	57,678	56,178 6,500 -8,000
68	COMBAT TRAINING RANGES Forward financing	15,795	11,795 -4,000
71	EELV - EMD (SPACE) Program increase - rocket engine development	84,438	228,038 143,600
72	LONG RANGE STANDOFF WEAPON Execution delays	36,643	16,143 -20,500
76	KC-46 Program efficiencies	602,364	592,364 -10,000
77	ADVANCED PILOT TRAINING T-X restrain growth in S&A and A&AS	11,395	10,395 -1,000
82	WIDEBAND GLOBAL SATCOM (SPACE) Excess to need	56,343	52,343 -4,000
86	F-15 EPAWSS EMD funding ahead of need	186,481	180,681 -5,800
91	PRESIDENTIAL AIRCRAFT REPLACEMENT Defer commercial aircraft buy to fiscal year 2017	102,620	82,420 -20,200
94	MAJOR T&E INVESTMENT Airborne sensor data correlation	68,302	73,302 5,000
98	TEST AND EVALUATION SUPPORT Projected shortfall	673,908	683,308 9,400
103	REQUIREMENTS ANALYSIS & MATURATION Program increase	16,507	22,507 6,000
106	SPACE AND MISSILE CENTER CIVILIAN WORKFORCE Unjustified increase	185,305	176,727 -8,578
107	ENTERPRISE INFORMATION SERVICES Forward financing	4,841	3,841 -1,000

(74K)

R-1		FY 2016 Request	Final Bill
113	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING Forward financing - JPATS	10,465	8,565 -1,900
114	WIDE AREA SURVEILLANCE Funds excess to need	24,577	22,577 -2,000
117	AF-IPPS Forward financing excluding funds for audit readiness	69,694	31,694 -38,000
125	MINUTEMAN SQUADRONS Airborne launch control system request unclear	178,929	166,729 -12,200
134	A-10 SQUADRONS Sustain avionics software development	0	16,200 16,200
135	F-16 SQUADRONS OFP M8+ early to need Radar improvements for the Air National Guard	148,297	166,297 -22,000 40,000
136	F-15E SQUADRONS IRST delays Air Force requested transfer from AP,AF line 22 for MIDS JTRS AESA radars for the Air National Guard	179,283	205,979 -6,100 12,796 20,000
138	F-22 SQUADRONS Program decrease	262,552	232,552 -30,000
139	F-35 SQUADRONS Restrain growth in follow-on development	115,395	53,921 -61,474
149	JASSM Forward financing	12,793	9,793 -3,000
152	AWACS Program decrease	161,812	131,812 -30,000
155	COMBAT AIR INTELLIGENCE SYSTEM Forward financing	7,793	6,793 -1,000
177	SPACE SUPERIORITY INTELLIGENCE Insufficient justification	13,815	12,315 -1,500
178	E-4B NAOC Excess funding for low frequency transmit system	80,360	76,760 -3,600
194	ATCALs Unjustified growth in program management administration	21,485	19,485 -2,000
199	ARMS CONTROL IMPLEMENTATION Forward financing	12,137	9,137 -3,000
208	ENDURANCE UAV Program increase	0	5,000 5,000
209	AIRBORNE RECONNAISSANCE SYSTEMS Wide area surveillance	50,154	60,154 10,000

(H4L)

R-1		FY 2016 Request	Final Bill
212	MQ-1 Funding not required	716	0 -716
213	RQ-4 Program delays	208,053	188,053 -20,000
214	NETWORK-CENTRIC COLLABORATIVE TARGETING Version 5.0.4 funding early to need	21,587	19,587 -2,000
216	NATO AGS Air Force requested transfer to AP,AF line 79 for NATO AEW&C	197,486	138,400 -59,086
220	JSPOC MISSION SYSTEM Excessive cost growth	81,911	80,911 -1,000
227	C-5 AIRLIFT SQUADRONS Forward financing	42,864	22,864 -20,000
228	C-17 Program decrease	54,807	48,807 -6,000
229	C-130J In-flight propeller balancing system Program decrease	31,010	25,010 6,400 -12,400
232	OPERATIONAL SUPPORT AIRLIFT Forward financing	48,453	46,453 -2,000
233	CV-22 Improved inlet solution program delay	36,576	27,776 -8,800
237	LOGIT Prioritize FIAR projects	112,676	68,400 -44,276
246	FINANCIAL MANAGEMENT INFO SYSTEMS Forward financing excluding funds for audit readiness	101,840	95,540 -6,300
999	CLASSIFIED PROGRAMS Classified adjustment	12,780,142	12,121,155 -658,987

74M

NEXT GENERATION JOINT SURVEILLANCE TARGET ATTACK RADAR SYSTEM

Delays by the Department of Defense in reaching a Milestone A decision on the Next Generation Joint Surveillance Target Attack Radar System (JSTARS) program remain a source of concern. The Secretary of Defense and the Secretary of the Air Force are directed to reassess the acquisition strategy with the goal of shortening the development phase and accelerating the production and delivery of a new system. The Secretary of the Air Force is further directed to brief the congressional defense committees not later than 60 days after the enactment of this Act on the status of requirements definition, technology risk and the strategy for reducing such risk, the acquisition strategy and funding for all phases, and options to accelerate the program relative to the schedule presented with the fiscal year 2016 budget request. This language replaces the direction regarding the Next Generation JSTARS system under the headings “Next Generation JSTARS” in House Report 114-139 and “Joint Surveillance and Target Attack Radar System (JSTARS)” in Senate Report 114-63.

GLOBAL POSITIONING SYSTEM III OPERATIONAL CONTROL SEGMENT

In light of significant delays to the Global Positioning System (GPS) III Operational Control Segment, the Air Force plan to accelerate GPS III satellite launches would put approximately fourteen satellites on orbit before the ground system is available to operate and integrate the satellites into the positioning, timing, and navigation architecture. Therefore, the Constellation Sustainment Assessment Team is directed to conduct a review, with validation by the Commander of the United States Strategic Command, to determine if the current GPS III satellite launch plan should be adjusted to ensure necessary operational testing on early vehicles has been completed and potential

satellite deficiencies have been discovered before more satellites are launched. This review should be provided to the congressional defense committees not later than 60 days after the enactment of this Act.

SPACE BASED INFRARED SYSTEM SPACE MODERNIZATION INITIATIVE

The agreement directs the Under Secretary of Defense (Acquisition, Technology, and Logistics) to provide an analysis of alternatives for the next generation of the Space Based Infrared System to the congressional defense committees not later than 60 days after the enactment of this Act. Further, the Under Secretary of Defense (Acquisition, Technology, and Logistics) and the Commander of the United States Strategic Command are directed to brief the congressional defense committees on the findings and recommendations of the analysis of alternatives, including the cost evaluation, not later than 30 days after the submission of the analysis of alternatives.

ADVANCED EXTREMELY HIGH FREQUENCY SATELLITE SPACE MODERNIZATION INITIATIVE

The agreement restricts obligation or expenditure of more than \$90,000,000 of Research, Development, Test and Evaluation, Air Force funds for the Advanced Extremely High Frequency Military Satellite Communications Space Modernization Initiative until 30 days after the Under Secretary of Defense (Acquisition, Technology, and Logistics) provides the congressional defense committees with its analysis of alternatives for protected tactical satellite communications services. Further, the Under Secretary of Defense (Acquisition, Technology, and Logistics) and the Commander of the United States Strategic Command are directed to brief the congressional defense

committees on the findings and recommendations of the analysis of alternatives, including the cost evaluation, not later than 30 days after the submission of the analysis of alternatives.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION,
DEFENSE-WIDE

The agreement on items addressed by either the House or the Senate is as follows:

~~(INSERT COMPUTER TABLE)~~ _____

~~(INSERT PROJECT LEVEL TABLE)~~ _____

insert 78A - N

TRUSTED FOUNDRIES

Maintaining a United States-based foundry that supplies trusted microprocessors for the Department of Defense and the Intelligence Community is a concern. It is noted that near-term and long-term plans are being developed by the Department of Defense to address access to microprocessors from trusted sources. The Secretary of Defense is directed to submit a report to the congressional defense committees not later than 90 days after the enactment of this Act that includes a list of Department of Defense weapon systems that require trusted microprocessors, a description on how the loss of a United States-based trusted foundry impacts these systems, an identification of costs associated with maintaining an equivalent level of security for the existing systems, a list of the

(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
RESEARCH, DEVELOPMENT, TEST & EVAL, DEFENSE-WIDE		
BASIC RESEARCH		
1	DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	38,436 38,436
2	DEFENSE RESEARCH SCIENCES.....	333,119 333,119
3	BASIC RESEARCH INITIATIVES.....	42,022 72,022
4	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE.....	56,544 56,544
5	NATIONAL DEFENSE EDUCATION PROGRAM.....	49,453 54,453
6	HISTORICALLY BLACK COLLEGES & UNIV (HBCU).....	25,834 35,834
7	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	46,261 47,781
	TOTAL, BASIC RESEARCH.....	591,669 638,169
APPLIED RESEARCH		
8	JOINT MUNITIONS TECHNOLOGY.....	19,352 19,352
9	BIOMEDICAL TECHNOLOGY.....	114,262 114,262
10	LINCOLN LABORATORY RESEARCH PROGRAM.....	51,026 51,026
11	APPLIED RESEARCH FOR ADVANCEMENT S&T PRIORITIES.....	48,226 48,226
12	INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	356,358 341,358
14	BIOLOGICAL WARFARE DEFENSE.....	29,265 29,265
15	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	208,111 202,611
16	CYBER SECURITY RESEARCH.....	13,727 13,727
18	TACTICAL TECHNOLOGY.....	314,582 302,582
19	MATERIALS AND BIOLOGICAL TECHNOLOGY.....	220,115 206,115
20	ELECTROMICS TECHNOLOGY.....	174,798 174,798
21	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	155,415 162,915
22	SOFTWARE ENGINEERING INSTITUTE.....	8,824 8,824
23	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	37,517 37,517
	TOTAL, APPLIED RESEARCH.....	1,751,578 1,702,578

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
24	ADVANCED TECHNOLOGY DEVELOPMENT JOINT MUNITIONS ADVANCED TECH INSENSITIVE MUNITIONS AD	25,915 25,915
26	COMBATING TERRORISM TECHNOLOGY SUPPORT	71,171 108,171
27	FOREIGN COMPARATIVE TESTING	21,782 24,782
28	COUNTERPROLIFERATION INITIATIVES--PROLIF PREV & DEFEAT	290,654 290,654
30	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	12,139 12,139
31	DISCRIMINATION SENSOR TECHNOLOGY	28,200 28,200
32	WEAPONS TECHNOLOGY	45,389 51,153
33	ADVANCED C4ISR	9,876 9,876
34	ADVANCED RESEARCH	17,364 17,364
35	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	18,802 18,802
36	AGILE TRANSPO FOR THE 21ST CENTURY (AT21) - THEATER CA	2,679 1,706
37	SPECIAL PROGRAM--MDA TECHNOLOGY	64,708 13,908
38	ADVANCED AEROSPACE SYSTEMS	185,043 175,025
39	SPACE PROGRAMS AND TECHNOLOGY	126,892 126,692
40	ANALYTIC ASSESSMENTS	14,645 14,645
41	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	59,830 50,030
42	COMMON KILL VEHICLE TECHNOLOGY	46,753 61,753
43	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV	140,094 140,094
44	RETRACT LARCH	118,666 108,666
45	JOINT ELECTRONIC ADVANCED TECHNOLOGY	43,988 30,886
46	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	141,540 132,540
47	NETWORKED COMMUNICATIONS CAPABILITIES	6,980 5,980
50	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	157,056 157,056
51	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT	33,515 41,015
52	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	16,543 15,543
53	DEPLOYMENT AND DISTRIBUTION ENTERPRISE TECHNOLOGY	29,888 29,888
54	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	65,836 55,836
55	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT	79,037 89,037

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
56	JOINT WARFIGHTING PROGRAM.....	8,826 5,000
57	ADVANCED ELECTRONICS TECHNOLOGIES.....	79,021 79,021
58	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	201,335 201,336
	DEFENSE RAPID INNOVATION PROGRAM.....	--- 250,000
59	NETWORK-CENTRIC WARFARE TECHNOLOGY.....	452,861 432,861
60	SENSOR TECHNOLOGY.....	257,127 248,127
61	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	10,771 10,771
62	SOFTWARE ENGINEERING INSTITUTE.....	15,202 15,202
63	QUICK REACTION SPECIAL PROJECTS.....	90,500 70,500
66	ENGINEERING SCIENCE AND TECHNOLOGY.....	18,377 18,377
67	TEST & EVALUATION SCIENCE & TECHNOLOGY.....	82,559 91,559
66	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT.....	37,420 41,420
69	CWMD SYSTEMS.....	42,488 42,488
70	SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT.....	57,741 59,741
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	3,229,821 3,401,868
	DEMONSTRATION & VALIDATION	
71	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT..	31,710 31,710
73	WALKOFF.....	90,567 90,567
74	ADVANCE SENSOR APPLICATIONS PROGRAM.....	15,900 15,900
75	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	52,758 52,758
76	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	228,021 212,421
77	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT...	1,284,891 1,270,991
78	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	172,754 170,354
79	BALLISTIC MISSILE DEFENSE SENSORS.....	233,588 228,588
80	BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS.....	408,088 405,123
81	SPECIAL PROGRAMS - MDA.....	400,387 400,387
82	AEGIS BMD.....	843,355 831,355
83	SPACE SURVEILLANCE & TRACKING SYSTEM.....	31,832 28,832
84	BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS.....	23,289 21,507
85	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT.....	450,085 430,231
86	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	49,570 47,898

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
87 BALLISTIC MISSILE DEFENSE INTERGRATION AND OPERATIONS CENTER (MDIOC).....	49,211	47,980
88 REGARDING TRENCH.....	9,583	9,583
89 SEA BASED X-BAND RADAR (SBX).....	72,866	71,266
90 ISRAELI COOPERATIVE PROGRAMS.....	102,795	267,595
91 BALLISTIC MISSILE DEFENSE TEST.....	274,323	281,970
92 BALLISTIC MISSILE DEFENSE TARGETS.....	513,256	527,994
93 HUMANITARIAN DENINING.....	10,129	10,129
94 COALITION WARFARE.....	10,350	10,350
95 DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	1,518	6,518
98 TECHNOLOGY MATURATION INITIATIVES.....	98,300	27,225
97 ADVANCED INNOVATIVE TECHNOLOGIES.....	469,798	469,798
98 DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT.	3,129	7,791
101X TECHNOLOGY OFFSET INITIATIVE.....	---	100,000
103 JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY.....	25,200	21,700
105 LONG RANGE DISCRIMINATION RADAR.....	137,564	137,564
106 IMPROVED HOMELAND DEFENSE INTERCEPTORS.....	278,944	278,944
107 BMD TERMINAL DEFENSE SEGMENT TEST.....	26,225	26,225
108 AEGIS BMD TEST.....	56,148	78,468
109 BALLISTIC MISSILE DEFENSE SENSOR TEST.....	86,764	83,597
110 LAND-BASED SM-3 (LBSM3).....	34,970	34,970
111 AEGIS SM-3 BLOCK IIA CO-DEVELOPMENT.....	172,845	172,845
112 BMD MIDCOURSE DEFENSE SEGMENT TEST.....	64,818	64,818
114 JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM.....	2,880	2,880
115 CYBER SECURITY INITIATIVE.....	983	983
TOTAL, DEMONSTRATION & VALIDATION.....	0,816,554	6,978,975

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
ENGINEERING & MANUFACTURING DEVELOPMENT		
116 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT...	8,800	8,800
117 PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT	78,817	88,817
118 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	303,647	282,147
119 ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)...	23,424	18,424
120 JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	14,285	14,285
121 WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES.....	7,156	7,156
122 INFORMATION TECHNOLOGY DEVELOPMENT	12,542	12,042
123 HOMELAND PERSONNEL SECURITY INITIATIVE.....	191	---
124 DEFENSE EXPORTABILITY PROGRAM	3,273	3,273
125 OUSD(C) IT DEVELOPMENT INITIATIVES	5,962	4,962
126 DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION...	13,412	11,912
127 DCMO POLICY AND INTEGRATION	2,223	2,223
128 DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM.....	31,660	31,660
129 DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS).....	13,085	10,135
130 DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITY.....	7,209	7,209
131 GLOBAL COMBAT SUPPORT SYSTEM	15,158	14,294
132 DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)...	4,414	4,414
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	545,258	521,753
RD&E MANAGEMENT SUPPORT		
133 DEFENSE READINESS REPORTING SYSTEM (DRRS).....	5,581	5,581
134 JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	3,081	3,081
135 CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT.....	229,125	214,125
136 ASSESSMENTS AND EVALUATIONS.....	28,674	28,674
138 JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC).....	45,235	40,235
139 TECHNICAL STUDIES, SUPPORT AND ANALYSIS	24,936	24,936
141 JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION...	35,471	34,009
143 CLASSIFIED PROGRAM USD(P)	---	115,000
144 SYSTEMS ENGINEERING	37,655	39,655
145 STUDIES AND ANALYSIS SUPPORT	3,015	2,715
146 NUCLEAR MATTERS - PHYSICAL SECURITY.....	5,287	5,287
147 SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	5,289	5,289

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
148 GENERAL SUPPORT TO USD (INTELLIGENCE).....	2,120	1,889
149 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	102,284	102,284
158 SMALL BUSINESS INNOVATION RESEARCH/TECHNOLOGY TRANSFER	2,189	2,189
159 DEFENSE TECHNOLOGY ANALYSIS.....	13,980	115,980
160 DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	51,775	56,775
161 R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	9,533	7,937
162 DEVELOPMENT TEST AND EVALUATION.....	17,371	21,371
163 MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT).....	71,571	71,571
164 BUDGET AND PROGRAM ASSESSMENTS.....	4,123	4,123
165 OPERATIONS SECURITY (OPSEC).....	1,946	1,946
166 JOINT STAFF ANALYTICAL SUPPORT.....	7,873	6,000
169 SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES...	10,413	10,413
170 DEFENSE MILITARY DECEPTION PROGRAM OFFICE.....	971	971
171 CYBER INTELLIGENCE.....	6,579	6,579
174 COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION,	43,811	42,766
175 MANAGEMENT HEADQUARTERS - MDA.....	35,871	35,871
176 MANAGEMENT HEADQUARTERS - WNS.....	1,072	1,072
9999 CLASSIFIED PROGRAMS.....	49,500	49,500
TOTAL, RDT&E MANAGEMENT SUPPORT.....	856,071	1,067,564
OPERATIONAL SYSTEMS DEVELOPMENT		
178 ENTERPRISE SECURITY SYSTEM (ESS).....	7,929	5,929
179 REGIONAL INTERNATIONAL OUTREACH & PARTNERSHIP FOR PEAC	1,750	1,750
180 OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SY	294	294
181 INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT.....	22,578	22,578
182 OPERATIONAL SYSTEMS DEVELOPMENT.....	1,901	1,901
183 GLOBAL THEATER SECURITY COOPERATION MANAGEMENT.....	8,474	8,474
184 CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D	33,561	33,561
186 PLANNING AND DECISION AID SYSTEM.....	3,061	1,842
187 C4I INTEROPERABILITY.....	84,921	83,341
189 JOINT/ALLIED COALITION INFORMATION SHARING.....	3,645	1,845
193 NATIONAL MILITARY COMMAND SYSTEM-WIDE SUPPORT.....	983	983

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
194 DEFENSE INFO INFRASTRUCTURE ENGINEERING & INTEGRATION.	10,186	10,186
195 LONG HAUL COMMUNICATIONS (DCS).....	36,883	36,883
196 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	13,735	13,735
197 PUBLIC KEY INFRASTRUCTURE (PKI).....	6,101	6,101
198 KEY MANAGEMENT INFRASTRUCTURE (KMI).....	43,867	43,867
199 INFORMATION SYSTEMS SECURITY PROGRAM.....	8,957	8,957
200 INFORMATION SYSTEMS SECURITY PROGRAM.....	146,890	161,890
201 GLOBAL COMMAND AND CONTROL SYSTEM.....	21,503	21,503
202 JOINT SPECTRUM CENTER (DEFENSE SPECTRUM ORGANIZATION).	20,342	20,342
203 NET-CENTRIC ENTERPRISE SERVICES (NCES).....	444	444
205 JOINT MILITARY DECEPTION INITIATIVE.....	1,736	1,736
208 TELEPORT PROGRAM.....	65,080	65,080
210 SPECIAL APPLICATIONS FOR CONTINGENCIES.....	2,978	2,978
215 POLICY R&D PROGRAMS.....	4,182	4,182
216 NET CENTRICITY.....	18,130	18,130
218 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	5,302	5,302
221 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	3,239	3,239
225 INSIDER THREAT.....	11,733	2,533
226 HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM.....	2,119	2,119
234 INDUSTRIAL PREPAREDNESS.....	24,605	22,605
235 LOGISTICS SUPPORT ACTIVITIES.....	1,770	1,770
236 MANAGEMENT HEADQUARTERS (JCS).....	2,978	2,978
237 MQ-9 UAV.....	18,151	22,151
238 RQ-11 UAV.....	758	758
240 SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED DEV.....	173,934	179,134
241 SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT....	6,866	6,866
242 SOF OPERATIONAL ENHANCEMENTS.....	63,008	63,008
243 WARRIOR SYSTEMS.....	25,342	33,842
244 SPECIAL PROGRAMS.....	3,401	3,401
245 SOF TACTICAL VEHICLES.....	3,212	3,212
246 SOF MARITIME SYSTEMS.....	63,597	59,597

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(IN THOUSANDS OF DOLLARS)

	BUDGET REQUEST	FINAL BILL
264 SOF GLOBAL VIDEO SURVEILLANCE ACTIVITIES	3,933	3,933
265 SOF OPERATIONAL ENHANCEMENTS INTELLIGENCE	10,623	10,623
TOTAL OPERATIONAL SYSTEMS DEVELOPMENT	974,638	985,539
999 CLASSIFIED PROGRAMS	3,564,272	3,430,509
DARPA UNDISTRIBUTED REDUCTION	--	-21,000
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DEF-WIDE	18,329,861	18,695,955

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EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
 [In thousands of dollars]

R-1	FY 2016 Request	Final Bill
3 BASIC RESEARCH INITIATIVES Program increase	42,022	72,022 30,000
5 NATIONAL DEFENSE EDUCATION PROGRAM Program increase	49,453	54,453 5,000
6 HISTORICALLY BLACK COLLEGES & UNIVERSITIES (HBCU) Program increase	25,834	35,834 10,000
7 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM Program increase	46,261	47,761 1,500
12 INFORMATION AND COMMUNICATIONS TECHNOLOGY Prior year carryover and documentation disparity	356,358	341,358 -15,000
15 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM Forward financing	208,111	202,611 -5,500
18 TACTICAL TECHNOLOGY Program growth and new starts	314,582	302,582 -12,000
19 MATERIALS AND BIOLOGICAL TECHNOLOGY Prior year carryover	220,115	206,115 -14,000
21 WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES Prior year carryover	155,415	152,915 -2,500
26 COMBATING TERRORISM TECHNOLOGY SUPPORT Program increase	71,171	108,171 37,000
27 FOREIGN COMPARATIVE TESTING Program increase	21,782	24,782 3,000
32 WEAPONS TECHNOLOGY MD69 - excess growth Program increase - divert attitude control systems technology to support multi-object kill vehicle	45,389	51,153 -4,236 10,000
36 AGILE TRANSPORTATION FOR THE 21ST CENTURY (AT21) - THEATER CAPABILITY Prior year carryover	2,679	1,706 -973
37 SPECIAL PROGRAM - MDA TECHNOLOGY Program adjustment	64,708	13,908 -50,800
38 ADVANCED AEROSPACE SYSTEMS Prior year carryover	185,043	175,025 -10,018
41 ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS Prior year carryover and minimize growth	59,830	50,030 -9,800
42 COMMON KILL VEHICLE TECHNOLOGY Previously funded activities Program increase - multi-object kill vehicle	46,753	61,753 -5,000 20,000

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R-1		FY 2016 Request	Final Bill
44	RETRACT LARCH Classified program adjustment	118,666	108,666 -10,000
45	JOINT ELECTRONIC ADVANCED TECHNOLOGY Prior year carryover and minimize growth	43,966	30,966 -13,000
46	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS Prior year carryover and minimize growth Program increase - cyber security technology demonstration	141,540	132,540 -18,000 9,000
47	NETWORKED COMMUNICATIONS CAPABILITIES Prior year carryover	6,980	5,980 -1,000
51	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT Program increase	33,515	41,015 7,500
52	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS Program growth and new starts	16,543	15,543 -1,000
54	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM Program decrease	65,836	55,836 -10,000
55	MICROELECTRONIC TECHNOLOGY DEVELOPMENT Program increase	79,037	89,037 10,000
56	JOINT WARFIGHTING PROGRAM Prior year carryover	9,626	5,000 -4,626
58X	DEFENSE RAPID INNOVATION FUND Program increase	0	250,000 250,000
59	NETWORK-CENTRIC WARFARE TECHNOLOGY Program growth	452,861	432,861 -20,000
60	SENSOR TECHNOLOGY Prior year carryover	257,127	246,127 -11,000
63	QUICK REACTION SPECIAL PROJECTS Program decrease	90,500	70,500 -20,000
67	TEST & EVALUATION SCIENCE & TECHNOLOGY Program increase	82,589	91,589 9,000
68	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT Program increase	37,420	41,420 4,000
70	SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT Program increase	57,741	59,741 2,000
76	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT Software build 4.0 excess growth at program initiation	228,021	212,421 -15,600
77	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT Program operations unjustified growth	1,284,891	1,270,991 -13,900

(78J)

R-1		FY 2016 Request	Final Bill
78	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAMS Unjustified request for CBRN	172,754	170,354 -2,400
79	BALLISTIC MISSILE DEFENSE SENSORS Basic development program efforts previously completed	233,588	228,588 -5,000
80	BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS MT23 test delays MD31 unjustified growth	409,088	405,123 -2,965 -1,000
82	AEGIS BMD Aegis BMD 5.0 development previously funded SM-3 IIA development transfer not properly accounted	843,355	831,355 -7,000 -5,000
83	SPACE SURVEILLANCE & TRACKING SYSTEM Previously funded activities	31,632	28,632 -3,000
84	BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS Previously funded	23,289	21,507 -1,782
85	BALLISTIC MISSILE DEFENSE C2BMC MD01 future spirals unjustified request MT01 test delays	450,085	430,231 -17,000 -2,854
86	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT Strategic warfighter integration unjustified growth	49,570	47,898 -1,672
87	MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER (MDIOC) Unjustified growth	49,211	47,980 -1,231
89	SEA BASED X-BAND RADAR (SBX) Test delays	72,866	71,266 -1,600
90	ISRAELI COOPERATIVE PROGRAMS Israeli Upper Tier Israeli Arrow program Short range ballistic missile defense	102,795 55,050 11,019 36,726	267,595 19,500 45,500 99,800
91	BMD TESTS Transfer from line 96	274,323	281,970 7,647
92	BMD TARGETS Transfer from line 96	513,256	527,994 14,738
95	DEPARTMENT OF DEFENSE CORROSION PROGRAM Program increase	1,518	6,518 5,000
96	TECHNOLOGY MATURATION INITIATIVES MD99 concurrent development programs MT99 test delays Transfer to line 92 Directed energy prototype development Transfer to line 91	96,300	27,225 -23,343 -3,347 -14,738 -20,000 -7,647

78K

R-1		FY 2016 Request	Final Bill
	DOD UNMANNED AIRCRAFT SYSTEM (UAS) COMMON		
98	DEVELOPMENT	3,129	7,791
	Program increase		4,662
101X	TECHNOLOGY OFFSET INITIATIVE	0	100,000
	Program increase		100,000
	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND		
103	INTEROPERABILITY	25,200	21,700
	Incomplete justification materials and underexecution		-3,500
108	AEGIS BMD TEST	55,148	78,468
	Prior year carryover		-4,000
	MDA requested transfer from P,DW line 25 only for additional SM-3 Block 1B flight tests		27,320
109	BALLISTIC MISSILE DEFENSE SENSORS TEST	86,764	83,597
	Test delays		-3,167
117	PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT	78,817	88,817
	Conventional Prompt Global Strike development and flight test		10,000
118	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	303,647	282,147
	Mileston B delay for Common Analytical Laboratory system		-10,000
	Milestone B delay for Joint Biological Aircraft Decontamination System		-1,500
	Prior year carryover		-10,000
119	ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)	23,424	18,424
	Excess program management		-5,000
122	INFORMATION TECHNOLOGY DEVELOPMENT	12,542	12,042
	Budget documentation disparity		-500
123	HOMELAND PERSONNEL SECURITY INITIATIVE	191	0
	Prior year carryover		-191
125	OUS(D) IT DEVELOPMENT INITIATIVES	5,962	4,962
	Forward financing and late contract awards		-1,000
	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND		
126	DEMONSTRATION	13,412	11,912
	Forward financing and late contract awards		-1,500
129	DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS)	13,085	10,135
	Delayed new start contract award		-2,950
131	GLOBAL COMBAT SUPPORT SYSTEM	15,158	14,294
	Unjustified growth		-864
135	CENTRAL TEST & EVAL INVESTMENT DEVELOPMENT	229,125	214,125
	Prior year carryover		-15,000
138	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC)	45,235	40,235
	Prior year carryover and minimize growth		-5,000

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R-1		FY 2016 Request	Final Bill
141	JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION	35,471	34,009
	Prior year carryover		-1,462
143	CLASSIFIED PROGRAM USD(P)	0	115,000
	Classified adjustment		115,000
144	SYSTEMS ENGINEERING	37,655	39,655
	Program increase		2,000
145	STUDIES AND ANALYSIS SUPPORT	3,015	2,715
	Prior year carryover		-300
148	GENERAL SUPPORT TO USD (INTELLIGENCE)	2,120	1,689
	Prior year carryover		-431
159	DEFENSE TECHNOLOGY ANALYSIS	13,960	115,960
	Program increase		2,000
	Assessment of major weapon system cyber vulnerabilities		100,000
160	DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	51,775	56,775
	Program increase - national security technology accelerator		
	technology knowledge exchange		5,000
161	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	9,533	7,937
	Prior year carryover and minimize growth		-1,596
162	DEVELOPMENT TEST AND EVALUATION	17,371	21,371
	Program increase		4,000
166	JOINT STAFF ANALYTICAL SUPPORT	7,673	6,000
	Delayed new start contract award		-1,673
173	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION	43,811	42,766
	Program decrease		-1,045
178	ENTERPRISE SECURITY SYSTEM (ESS)	7,929	5,929
	Contract award delay		-2,000
186	PLANNING AND DECISION AID SYSTEM	3,061	1,842
	Poor justification material		-1,219
187	C4I INTEROPERABILITY	64,921	63,341
	Major range and test facility base infrastructure growth		-1,580
189	JOINT/ALLIED COALITION INFORMATION SHARING	3,645	1,845
	Prior year carryover		-1,800
200	INFORMATION SYSTEMS SECURITY PROGRAM	146,890	161,890
	Sharkseer		15,000
225	INSIDER THREAT	11,733	2,533
	DSS requested transfer to OM,DW only for insider threat/continuous evaluation		-9,200

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R-1		FY 2016 Request	Final Bill
234	INDUSTRIAL PREPAREDNESS	24,605	22,605
	Contract award delay		-2,000
237	MQ-9 UAV	18,151	22,151
	MQ-9 capability enhancements		4,000
	SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED		
240	DEVELOPMENT	173,934	179,134
	C-130J TF radar - transfer from P,DW line 54		7,500
	Underexecution		-10,000
	C-130J TF/TA program adjustment		7,700
243	WARRIOR SYSTEMS	25,342	33,842
	Prior year carryover		-2,000
	Program increase		10,500
246	SOF MARITIME SYSTEMS	63,597	59,597
	Test and evaluation delay		-4,000
	CLASSIFIED PROGRAMS	3,564,272	3,430,509
	Classified adjustment		-133,763
	DARPA UNDISTRIBUTED REDUCTION		-21,000
	DARPA undistributed reduction		-21,000

78N

challenges associated with maintaining and/or creating adequate United States-based trusted foundries versus relying on foreign-based trusted foundries, and the Department's plan to provide secure microprocessors for future weapon systems. This report may be submitted in a classified form if necessary.

MISSILE DEFENSE AGENCY - DIVERT AND ATTITUDE CONTROL SYSTEM AND
MULTI-OBJECT KILL VEHICLE

The fiscal year 2016 budget request includes \$11,482,000 for the competitive development of next generation divert and attitude control system (DACS) technology, a reduction of 42 percent from fiscal year 2015. In addition, the fiscal year 2016 budget request initiates funding for the multi-object kill vehicle (MOKV), a program that will likely require next generation DACS technology. It is understood that the Missile Defense Agency (MDA) shares previously expressed concerns regarding the need to ensure access to a competitive DACS industrial base and views the DACS component as critical to making precise trajectory adjustments to position missile defense kill vehicles for a target intercept. Therefore, the agreement recommends an additional \$10,000,000 for competitive DACS technology to support MOKV development, and an additional \$20,000,000 for MOKV technology. It is understood that MDA will support the competitive DACS industrial base in future budget submissions.

MISSILE DEFENSE AGENCY - SM-3 BLOCK IIA INTERCEPTOR AND PROGRAMS INVOLVING
INTERNATIONAL PARTNERS

It is recognized that the United States and Japan are cooperatively developing the SM-3 Block IIA missile and are preparing for an initial flight test. The fiscal year 2016

budget request continues to incrementally fund 17 SM-3 Block IIA flight test rounds, at a cost of over \$500,000,000. In an effort to better recognize the role of international partners in Department-wide technology programs, the Under Secretary of Defense (Acquisition, Technology, and Logistics) is directed to provide a briefing to the congressional defense committees on Department of Defense programs involving international partners.

OPERATIONAL TEST AND EVALUATION, DEFENSE

The agreement on items addressed by either the House or the Senate is as follows:

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS [In thousands of dollars]

R-1	FY 2016 Request	Final Bill
1 OPERATIONAL TEST AND EVALUATION	76,838	76,838
2 LIVE FIRE TESTING	46,882	46,882
3 OPERATIONAL TEST ACTIVITIES AND ANALYSIS	46,838	64,838
Program increase - Threat resource analysis		8,000
Program increase - Joint test and evaluation		10,000
TOTAL, OPERATIONAL TEST & EVALUATION, DEFENSE	170,558	188,558