

NEW LEGISLATION ENABLES COMMERCIAL EXPLORATION AND USE OF SPACE RESOURCES—DEEP SPACE INDUSTRIES CONGRATULATES U.S. CONGRESS ON LANDMARK LEGISLATION

MOFFETT FIELD, CA—Deep Space Industries (DSI) congratulates the members of the United States Senate for passing legislation that significantly advances the cause of opening space resources to humanity. Title IV of S. 1297, also referred to as the U.S. Commercial Space Launch Competitive Act of 2015, promotes the right of U.S. citizens to engage in commercial exploration for, and commercial recovery of, space resources in accordance with international obligations and subject to supervision by the U.S. government.

"We are pleased to see the beginnings of legal clarity in the field of space resource utilization," said Rick Tumlinson, Chair of Deep Space Industries. "This bill is a historic step forward and demonstrates that Congress can effectively and quickly pass legislation that is important to the country's economic future. The hardworking legislators and their staff on Capitol Hill are to be commended."

Title IV will spur an influx of capital into the industry and encourage entities to further develop plans and technologies to extract minerals from the vast numbers of asteroids and other resource-rich bodies in the solar system.

Mr. POSEY. Mr. Speaker, title IV of this bill includes language from H.R. 1508, the Space Resource Exploration and Utilization Act. I introduced this bipartisan, bicameral bill with my colleague from the State of Washington, DEREK KILMER, and with support from many members of the Science, Space, and Technology Committee. I appreciate the work and the research of Senators PATTY MURRAY and MARCO RUBIO to introduce identical legislation in the U.S. Senate.

H.R. 1508 provides legal clarity that if a company mines resources from an asteroid in outer space, it has the right of ownership to those resources. It does so consistent with U.S. international obligations.

The right to explore and use outer space is found in article I of the Outer Space Treaty. Article VI of the Outer Space Treaty explicitly recognizes that nongovernmental entities, such as private corporations, may explore and use outer space, including the right to remove, take possession, and use in situ natural resources from celestial bodies.

In drafting and negotiating title IV, there was a challenge in determining the best language to use to recognize this right. The term "obtain" was ultimately chosen because it was technically and politically neutral. It is our intention that only through actually physically recovering a resource does a company have the right of ownership of those resources.

In short, Mr. Speaker, the U.S. Commercial Space Launch Competitive Act is a critical piece of legislation to the future of our commercial space industry and space exploration efforts.

Mr. Speaker, I thank my colleagues again for their work on this bill, and I urge passage of this important legislation.

Ms. EDWARDS. Mr. Speaker, I yield myself the balance of my time.

Mr. Speaker, I just want to remind our colleagues because this is really important legislation moving forward, and I think that as the ranking member, Ms. JOHNSON, has indicated and as I have, that it is not for lack of concern and support of the commercial space industry and sector that we raise concerns. This is an industry that is growing by leaps and bounds, that employs thousands of workers all across this country, and that is at the hub of entrepreneurship, research, and exploration.

It really is the 21st century future. It is really a question of what the rules of the game are going to be going forward, how to best protect the interests of taxpayers, how to protect the interests of the industry, and to see it grow in a healthy way. So I would hope that the majority would take into consideration some of the concerns that have been expressed and let's use an opportunity over these next several months and years to make sure that we get it right for the industry that is a part of our future.

I would note that, even with the reservations that have been expressed, we pointed out a number of areas where there is strength in this legislation, but we haven't gotten it all right. I would also remind the majority that, with respect to mining of asteroids, we are not doing that tomorrow, so all the more reason we should pay attention to the international treaties of which we are a part and to the needs and concerns of our international partners as we move forward; that is, we don't have to rush to judgment where it concerns mining asteroids, as we are not doing that tomorrow.

So, Mr. Speaker, I would close by just saying that I believe that there is a great future in this industry, and I am excited about it. But I also know that we have to balance a lot of our interests to make sure that we pay attention, again, to safety and that we do it in the right kind of way.

As I began, I applaud the gentleman from Texas for making sure that the points of concern are on the record. I do not intend to oppose the bill, and I hope that we can move forward in the future to make sure that we really can provide for the kind of strength that the industry needs.

I want to take an opportunity to thank the staff: Pam Whitney of our Space Subcommittee, who has put in tireless work on this bill; Allen Li; Russell Norman and John Piazza, our counsel. Dick Obermann, our chief of staff on the committee, has put in tireless hours to try to get it right. I think for all of those who are part of the commercial space industry, we want you to go forward, we want you to succeed, and we want to make sure that the American public, that the American taxpayer, gets the benefit of the bargain.

Mr. Speaker, I yield back the balance of my time.

Mr. MCCARTHY. Mr. Speaker, today America stands at the beginning of a

new era of innovation and adventure. Scientists, engineers, astronauts, and entrepreneurs are working in the deserts of California to embark on the next phase of our journey into space, and today we have the opportunity to aid them in that journey. Completing consideration of the SPACE Act in this Chamber today will help ensure America remains the leader in space exploration and innovation in the 21st century.

Mr. Speaker, we are here today thanks to the hard work of Chairman SMITH, his committee and their staff, especially Chris Wydler and Tom Hammond. I want to especially thank George Caram from my staff for his work as well. Because of their commitment after months of negotiations following the House passage of the original bill earlier this year, the SPACE Act passed out of the Senate unanimously. I look forward to the passage of this bill on the House floor today with similarly strong bipartisan support, and I urge my colleagues to vote with me to move America into the future.

Mr. Speaker, I yield back the balance of my time.

□ 1830

The SPEAKER pro tempore. The question is on the motion offered by the gentleman from California (Mr. MCCARTHY) that the House suspend the rules and concur in the Senate amendment to the bill, H.R. 2262.

The question was taken; and (two-thirds being in the affirmative) the rules were suspended and the Senate amendment was concurred in.

A motion to reconsider was laid on the table.

DIRECTING THE SECRETARY OF THE SENATE TO MAKE A TECHNICAL CORRECTION IN THE ENROLLMENT OF S. 1356

Mr. ROGERS of Alabama. Mr. Speaker, I ask unanimous consent to take from the Speaker's table the concurrent resolution (H. Con. Res. 90) directing the Secretary of the Senate to make a technical correction in the enrollment of S. 1356, with the Senate amendment thereto, and concur in the Senate amendment.

The Clerk read the title of the concurrent resolution.

The SPEAKER pro tempore. The Clerk will report the Senate amendment.

The Clerk read as follows:

Senate amendment:

Strike the matter following the resolving clause and insert the following:

That in the enrollment of the bill S. 1356, the Secretary of the Senate shall make the following corrections:

(1) Amend the title so as to read: "An Act to authorize appropriations for fiscal year 2016 for military activities of the Department of Defense, for military construction, and for defense activities of the Department of Energy, to prescribe military personnel strengths for such fiscal year, and for other purposes."

(2) In the table of contents in section 2, in the item relating to section 1242, amend “Ukrainian Republic” so as to read “Ukraine”.

(3) In the table of contents for title XII before section 1201, in the item relating to section 1242, amend “Ukrainian Republic” so as to read “Ukraine”.

(4) In the section heading of section 1242, amend “UKRAINIAN REPUBLIC” so as to read “UKRAINE”.

(5) In section 1242, amend “the Ukrainian Republic” so as to read “Ukraine” each place it appears in subsections (a)(1) and (b).

(6) Strike section 4201 and insert the following:

“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION.

“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY				
BASIC RESEARCH				
001	0601101A	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	13,018	13,018
002	0601102A	DEFENSE RESEARCH SCIENCES	239,118	259,118
		Basic research program increase		[20,000]
003	0601103A	UNIVERSITY RESEARCH INITIATIVES	72,603	72,603
004	0601104A	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	100,340	100,340
		SUBTOTAL BASIC RESEARCH	425,079	445,079
APPLIED RESEARCH				
005	0602105A	MATERIALS TECHNOLOGY	28,314	28,314
006	0602120A	SENSORS AND ELECTRONIC SURVIVABILITY	38,374	38,374
007	0602122A	TRACTOR HIP	6,879	6,879
008	0602211A	AVIATION TECHNOLOGY	56,884	56,884
009	0602270A	ELECTRONIC WARFARE TECHNOLOGY	19,243	19,243
010	0602303A	MISSILE TECHNOLOGY	45,053	53,053
		A2/AD Anti-Ship Missile Study		[8,000]
011	0602307A	ADVANCED WEAPONS TECHNOLOGY	29,428	29,428
012	0602308A	ADVANCED CONCEPTS AND SIMULATION	27,862	27,862
013	0602601A	COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	68,839	68,839
014	0602618A	BALLISTICS TECHNOLOGY	92,801	92,801
015	0602622A	CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY	3,866	3,866
016	0602623A	JOINT SERVICE SMALL ARMS PROGRAM	5,487	5,487
017	0602624A	WEAPONS AND MUNITIONS TECHNOLOGY	48,340	48,340
018	0602705A	ELECTRONICS AND ELECTRONIC DEVICES	55,301	55,301
019	0602709A	NIGHT VISION TECHNOLOGY	33,807	33,807
020	0602712A	COUNTERMINE SYSTEMS	25,068	25,068
021	0602716A	HUMAN FACTORS ENGINEERING TECHNOLOGY	23,681	23,681
022	0602720A	ENVIRONMENTAL QUALITY TECHNOLOGY	20,850	20,850
023	0602782A	COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY	36,160	36,160
024	0602783A	COMPUTER AND SOFTWARE TECHNOLOGY	12,656	12,656
025	0602784A	MILITARY ENGINEERING TECHNOLOGY	63,409	63,409
026	0602785A	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	24,735	24,735
027	0602786A	WARFIGHTER TECHNOLOGY	35,795	35,795
028	0602787A	MEDICAL TECHNOLOGY	76,853	76,853
		SUBTOTAL APPLIED RESEARCH	879,685	887,685
ADVANCED TECHNOLOGY DEVELOPMENT				
029	0603001A	WARFIGHTER ADVANCED TECHNOLOGY	46,973	46,973
030	0603002A	MEDICAL ADVANCED TECHNOLOGY	69,584	69,584
031	0603003A	AVIATION ADVANCED TECHNOLOGY	89,736	89,736
032	0603004A	WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	57,663	57,663
033	0603005A	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY	113,071	113,071
034	0603006A	SPACE APPLICATION ADVANCED TECHNOLOGY	5,554	5,554
035	0603007A	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	12,636	12,636
037	0603009A	TRACTOR HIKE	7,502	7,502
038	0603015A	NEXT GENERATION TRAINING & SIMULATION SYSTEMS	17,425	17,425
039	0603020A	TRACTOR ROSE	11,912	11,912
040	0603125A	COMBATING TERRORISM—TECHNOLOGY DEVELOPMENT	27,520	27,520
041	0603130A	TRACTOR NAIL	2,381	2,381
042	0603131A	TRACTOR EGGS	2,431	2,431
043	0603270A	ELECTRONIC WARFARE TECHNOLOGY	26,874	26,874
044	0603313A	MISSILE AND ROCKET ADVANCED TECHNOLOGY	49,449	49,449
045	0603322A	TRACTOR CAGE	10,999	10,999
046	0603461A	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	177,159	177,159
047	0603606A	LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY	13,993	13,993
048	0603607A	JOINT SERVICE SMALL ARMS PROGRAM	5,105	5,105
049	0603710A	NIGHT VISION ADVANCED TECHNOLOGY	40,929	40,929
050	0603728A	ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS	10,727	10,727
051	0603734A	MILITARY ENGINEERING ADVANCED TECHNOLOGY	20,145	20,145
052	0603772A	ADVANCED TACTICAL COMPUTER SCIENCE AND SENSOR TECHNOLOGY	38,163	38,163
053	0603794A	C3 ADVANCED TECHNOLOGY	37,816	37,816
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT	895,747	895,747
ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES				
054	0603305A	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	10,347	10,347
055	0603308A	ARMY SPACE SYSTEMS INTEGRATION	25,061	25,061
056	0603619A	LANDMINE WARFARE AND BARRIER—ADV DEV	49,636	49,636
057	0603627A	SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV	13,426	13,426
058	0603639A	TANK AND MEDIUM CALIBER AMMUNITION	46,749	46,749
060	0603747A	SOLDIER SUPPORT AND SURVIVABILITY	6,258	6,258
061	0603766A	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—ADV DEV	13,472	13,472
062	0603774A	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	7,292	7,292
063	0603779A	ENVIRONMENTAL QUALITY TECHNOLOGY—DEM/VAL	8,813	8,813

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
065	0603790.A	NATO RESEARCH AND DEVELOPMENT	6,075	6,075
067	0603804.A	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	21,233	21,233
068	0603807.A	MEDICAL SYSTEMS—ADV DEV	31,962	31,962
069	0603827.A	SOLDIER SYSTEMS—ADVANCED DEVELOPMENT	22,194	22,194
071	0604100.A	ANALYSIS OF ALTERNATIVES	9,805	9,805
072	0604115.A	TECHNOLOGY MATURATION INITIATIVES	40,917	40,917
073	0604120.A	ASSURED POSITIONING, NAVIGATION AND TIMING (PNT)	30,058	30,058
074	0604319.A	INDIRECT FIRE PROTECTION CAPABILITY INCREMENT 2—INTERCEPT (IFPC2)	155,361	155,361
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES	498,659	498,659
		SYSTEM DEVELOPMENT & DEMONSTRATION		
076	0604201.A	AIRCRAFT AVIONICS	12,939	12,939
078	0604270.A	ELECTRONIC WARFARE DEVELOPMENT	18,843	18,843
079	0604280.A	JOINT TACTICAL RADIO	9,861	9,861
080	0604290.A	MID-TIER NETWORKING VEHICULAR RADIO (MNVR)	8,763	8,763
081	0604321.A	ALL SOURCE ANALYSIS SYSTEM	4,309	4,309
082	0604328.A	TRACTOR CAGE	15,138	15,138
083	0604601.A	INFANTRY SUPPORT WEAPONS	74,128	80,628
		Army requested realignment		[1,500]
		Soldier Enhancement Program		[5,000]
085	0604611.A	JAVELIN	3,945	3,945
087	0604633.A	AIR TRAFFIC CONTROL	10,076	10,076
088	0604641.A	TACTICAL UNMANNED GROUND VEHICLE (TUGV)	40,374	40,374
089	0604710.A	NIGHT VISION SYSTEMS—ENG DEV	67,582	67,582
090	0604713.A	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	1,763	1,763
091	0604715.A	NON-SYSTEM TRAINING DEVICES—ENG DEV	27,155	27,155
092	0604741.A	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE—ENG DEV	24,569	24,569
093	0604742.A	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	23,364	23,364
094	0604746.A	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	8,960	8,960
095	0604760.A	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—ENG DEV	9,138	9,138
096	0604780.A	COMBINED ARMS TACTICAL TRAINER (CATT) CORE	21,622	21,622
097	0604798.A	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	99,242	99,242
098	0604802.A	WEAPONS AND MUNITIONS—ENG DEV	21,379	21,379
099	0604804.A	LOGISTICS AND ENGINEER EQUIPMENT—ENG DEV	48,339	48,339
100	0604805.A	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—ENG DEV	2,726	2,726
101	0604807.A	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT—ENG DEV	45,412	45,412
102	0604808.A	LANDMINE WARFARE/BARRIER—ENG DEV	55,215	55,215
104	0604818.A	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE	163,643	163,643
105	0604820.A	RADAR DEVELOPMENT	12,309	12,309
106	0604822.A	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS)	15,700	15,700
107	0604823.A	FIREFINDER	6,243	6,243
108	0604827.A	SOLDIER SYSTEMS—WARRIOR DEM/VAL	18,776	18,776
109	0604854.A	ARTILLERY SYSTEMS—EMD	1,953	1,953
110	0605013.A	INFORMATION TECHNOLOGY DEVELOPMENT	67,358	67,358
111	0605018.A	INTEGRATED PERSONNEL AND PAY SYSTEM-ARMY (IPPS-A)	136,011	121,011
		Restructure program		[–15,000]
112	0605028.A	ARMORED MULTI-PURPOSE VEHICLE (AMPV)	230,210	230,210
113	0605030.A	JOINT TACTICAL NETWORK CENTER (JTNC)	13,357	13,357
114	0605031.A	JOINT TACTICAL NETWORK (JTN)	18,055	18,055
115	0605032.A	TRACTOR TIRE	5,677	5,677
116	0605035.A	COMMON INFRARED COUNTERMEASURES (CIRCM)	77,570	101,570
		Apache Survivability Enhancements—Army Unfunded Requirement		[24,000]
117	0605051.A	AIRCRAFT SURVIVABILITY DEVELOPMENT	18,112	78,112
		Apache Survivability Enhancements—Army Unfunded Requirement		[60,000]
118	0605350.A	WIN-T INCREMENT 3—FULL NETWORKING	39,700	39,700
119	0605380.A	AMF JOINT TACTICAL RADIO SYSTEM (JTRS)	12,987	12,987
120	0605450.A	JOINT AIR-TO-GROUND MISSILE (JAGM)	88,866	74,966
		EMD contract delays		[–13,900]
121	0605456.A	PAC-3/MSE MISSILE	2,272	2,272
122	0605457.A	ARMY INTEGRATED AIR AND MISSILE DEFENSE (AIAMD)	214,099	214,099
123	0605625.A	MANNED GROUND VEHICLE	49,247	39,247
		Funding ahead of need		[–10,000]
124	0605626.A	AERIAL COMMON SENSOR	2	2
125	0605766.A	NATIONAL CAPABILITIES INTEGRATION (MIP)	10,599	10,599
126	0605812.A	JOINT LIGHT TACTICAL VEHICLE (JLTV) ENGINEERING AND MANUFACTURING DEVELOPMENT PH.	32,486	32,486
127	0605830.A	AVIATION GROUND SUPPORT EQUIPMENT	8,880	8,880
128	0210609.A	PALADIN INTEGRATED MANAGEMENT (PIM)	152,288	152,288
129	0303032.A	TROJAN—RH12	5,022	5,022
130	0304270.A	ELECTRONIC WARFARE DEVELOPMENT	12,686	12,686
		SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION	2,068,950	2,120,550
		RDT&E MANAGEMENT SUPPORT		
131	0604256.A	THREAT SIMULATOR DEVELOPMENT	20,035	20,035
132	0604258.A	TARGET SYSTEMS DEVELOPMENT	16,684	16,684
133	0604759.A	MAJOR T&E INVESTMENT	62,580	62,580
134	0605103.A	RAND ARROYO CENTER	20,853	20,853
135	0605301.A	ARMY KWAJALEIN ATOLL	205,145	205,145
136	0605326.A	CONCEPTS EXPERIMENTATION PROGRAM	19,430	19,430
138	0605601.A	ARMY TEST RANGES AND FACILITIES	277,646	277,646

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
139	0605602A	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	51,550	51,550
140	0605604A	SURVIVABILITY/LETHALITY ANALYSIS	33,246	33,246
141	0605606A	AIRCRAFT CERTIFICATION	4,760	4,760
142	0605702A	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	8,303	8,303
143	0605706A	MATERIEL SYSTEMS ANALYSIS	20,403	20,403
144	0605709A	EXPLOITATION OF FOREIGN ITEMS	10,396	10,396
145	0605712A	SUPPORT OF OPERATIONAL TESTING	49,337	49,337
146	0605716A	ARMY EVALUATION CENTER	52,694	52,694
147	0605718A	ARMY MODELING & SIM X-CMD COLLABORATION & INTEG	938	938
148	0605801A	PROGRAMWIDE ACTIVITIES	60,319	60,319
149	0605803A	TECHNICAL INFORMATION ACTIVITIES	28,478	28,478
150	0605805A	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	32,604	24,604
		Program reduction		[-8,000]
151	0605857A	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	3,186	3,186
152	0605898A	MANAGEMENT HQ—R&D	48,955	48,955
		SUBTOTAL RDT&E MANAGEMENT SUPPORT	1,027,542	1,019,542
		OPERATIONAL SYSTEMS DEVELOPMENT		
154	0603778A	MLRS PRODUCT IMPROVEMENT PROGRAM	18,397	18,397
155	0603813A	TRACTOR PULL	9,461	9,461
156	0607131A	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PROGRAMS	4,945	4,945
157	0607133A	TRACTOR SMOKE	7,569	7,569
158	0607135A	APACHE PRODUCT IMPROVEMENT PROGRAM	69,862	69,862
159	0607136A	BLACKHAWK PRODUCT IMPROVEMENT PROGRAM	66,653	66,653
160	0607137A	CHINOOK PRODUCT IMPROVEMENT PROGRAM	37,407	37,407
161	0607138A	FIXED WING PRODUCT IMPROVEMENT PROGRAM	1,151	1,151
162	0607139A	IMPROVED TURBINE ENGINE PROGRAM	51,164	51,164
163	0607140A	EMERGING TECHNOLOGIES FROM NIE	2,481	2,481
164	0607141A	LOGISTICS AUTOMATION	1,673	1,673
166	0607665A	FAMILY OF BIOMETRICS	13,237	13,237
167	0607865A	PATRIOT PRODUCT IMPROVEMENT	105,816	105,816
169	0202429A	AEROSTAT JOINT PROJECT—COCOM EXERCISE	40,565	40,565
171	0203728A	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM (JADOCs)	35,719	35,719
172	0203735A	COMBAT VEHICLE IMPROVEMENT PROGRAMS	257,167	354,167
		Stryker Lethality Upgrades		[97,000]
173	0203740A	MANEUVER CONTROL SYSTEM	15,445	15,445
175	0203752A	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	364	364
176	0203758A	DIGITIZATION	4,361	4,361
177	0203801A	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM	3,154	3,154
178	0203802A	OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	35,951	35,951
179	0203808A	TRACTOR CARD	34,686	34,686
180	0205402A	INTEGRATED BASE DEFENSE—OPERATIONAL SYSTEM DEV	10,750	10,750
181	0205410A	MATERIALS HANDLING EQUIPMENT	402	402
183	0205456A	LOWER TIER AIR AND MISSILE DEFENSE (AMD) SYSTEM	64,159	64,159
184	0205778A	GUIDED MULTIPLE-LAUNCH ROCKET SYSTEM (GMLRS)	17,527	17,527
185	0208053A	JOINT TACTICAL GROUND SYSTEM	20,515	20,515
187	0303028A	SECURITY AND INTELLIGENCE ACTIVITIES	12,368	12,368
188	0303140A	INFORMATION SYSTEMS SECURITY PROGRAM	31,154	31,154
189	0303141A	GLOBAL COMBAT SUPPORT SYSTEM	12,274	12,274
190	0303142A	SATCOM GROUND ENVIRONMENT (SPACE)	9,355	9,355
191	0303150A	WWWCCS/GLOBAL COMMAND AND CONTROL SYSTEM	7,053	7,053
193	0305179A	INTEGRATED BROADCAST SERVICE (IBS)	750	750
194	0305204A	TACTICAL UNMANNED AERIAL VEHICLES	13,225	13,225
195	0305206A	AIRBORNE RECONNAISSANCE SYSTEMS	22,870	22,870
196	0305208A	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	25,592	25,592
199	0305233A	RQ-7 UAV	7,297	7,297
201	0310349A	WIN-T INCREMENT 2—INITIAL NETWORKING	3,800	3,800
202	0708045A	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	48,442	48,442
202A	9999999999	CLASSIFIED PROGRAMS	4,536	4,536
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	1,129,297	1,226,297
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY	6,924,959	7,093,559
		RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY		
		BASIC RESEARCH		
001	0601103N	UNIVERSITY RESEARCH INITIATIVES	116,196	125,196
		Defense University Research Instrumentation Program increase		[9,000]
002	0601152N	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	19,126	19,126
003	0601153N	DEFENSE RESEARCH SCIENCES	451,606	479,106
		Basic research program increase		[27,500]
		SUBTOTAL BASIC RESEARCH	586,928	623,428
		APPLIED RESEARCH		
004	0602114N	POWER PROJECTION APPLIED RESEARCH	68,723	68,723
005	0602123N	FORCE PROTECTION APPLIED RESEARCH	154,963	154,963
006	0602131M	MARINE CORPS LANDING FORCE TECHNOLOGY	49,001	49,001
007	0602235N	COMMON PICTURE APPLIED RESEARCH	42,551	42,551
008	0602236N	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	45,056	45,056
009	0602271N	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	115,051	115,051
010	0602435N	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	62,252	62,252
		Service Life Extension for the AGOR Ship		[20,000]
011	0602651M	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	6,119	6,119

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
012	0602747N	UNDERSEA WARFARE APPLIED RESEARCH	123,750	142,350
		Accelerate undersea warfare research		[18,600]
013	0602750N	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	179,686	179,686
014	0602782N	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	37,418	37,418
		SUBTOTAL APPLIED RESEARCH	864,570	903,170
		ADVANCED TECHNOLOGY DEVELOPMENT		
015	0603114N	POWER PROJECTION ADVANCED TECHNOLOGY	37,093	37,093
016	0603123N	FORCE PROTECTION ADVANCED TECHNOLOGY	38,044	38,044
017	0603271N	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	34,899	34,899
018	0603640M	USMC ADVANCED TECHNOLOGY DEMONSTRATION (ATD)	137,562	137,562
019	0603651M	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	12,745	12,745
020	0603673N	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEVELOPMENT	258,860	258,860
021	0603680N	MANUFACTURING TECHNOLOGY PROGRAM	57,074	57,074
022	0603729N	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	4,807	4,807
023	0603747N	UNDERSEA WARFARE ADVANCED TECHNOLOGY	13,748	13,748
024	0603758N	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	66,041	66,041
025	0603782N	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY	1,991	1,991
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT	662,864	662,864
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
026	0603207N	AIR/OCEAN TACTICAL APPLICATIONS	41,832	41,832
027	0603216N	AVIATION SURVIVABILITY	5,404	5,404
028	0603237N	DEPLOYABLE JOINT COMMAND AND CONTROL	3,086	3,086
029	0603251N	AIRCRAFT SYSTEMS	11,643	11,643
030	0603254N	ASW SYSTEMS DEVELOPMENT	5,555	5,555
031	0603261N	TACTICAL AIRBORNE RECONNAISSANCE	3,087	3,087
032	0603382N	ADVANCED COMBAT SYSTEMS TECHNOLOGY	1,636	1,636
033	0603502N	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	118,588	113,588
		LDUUV development growth		[-5,000]
034	0603506N	SURFACE SHIP TORPEDO DEFENSE	77,385	77,385
035	0603512N	CARRIER SYSTEMS DEVELOPMENT	8,348	8,348
036	0603525N	PILOT FISH	123,246	123,246
037	0603527N	RETRACT LARCH	28,819	28,819
038	0603536N	RETRACT JUNIPER	112,678	112,678
039	0603542N	RADIOLOGICAL CONTROL	710	710
040	0603553N	SURFACE ASW	1,096	1,096
041	0603561N	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	87,160	93,360
		Accelerate unmanned underwater vehicle development		[10,000]
		Universal launch and recovery module unfunded outyear tail		[-3,800]
042	0603562N	SUBMARINE TACTICAL WARFARE SYSTEMS	10,371	10,371
043	0603563N	SHIP CONCEPT ADVANCED DESIGN	11,888	11,888
044	0603564N	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	4,332	4,332
045	0603570N	ADVANCED NUCLEAR POWER SYSTEMS	482,040	482,040
046	0603573N	ADVANCED SURFACE MACHINERY SYSTEMS	25,904	25,904
047	0603576N	CHALK EAGLE	511,802	511,802
048	0603581N	LITTORAL COMBAT SHIP (LCS)	118,416	118,416
049	0603582N	COMBAT SYSTEM INTEGRATION	35,901	35,901
050	0603595N	OHIO REPLACEMENT	971,393	971,393
051	0603596N	LCS MISSION MODULES	206,149	206,149
052	0603597N	AUTOMATED TEST AND RE-TEST (ATRT)	8,000	8,000
053	0603609N	CONVENTIONAL MUNITIONS	7,678	7,678
054	0603611M	MARINE CORPS ASSAULT VEHICLES	219,082	219,082
055	0603635M	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	623	623
056	0603654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	18,260	18,260
057	0603658N	COOPERATIVE ENGAGEMENT	76,247	76,247
058	0603713N	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	4,520	4,520
059	0603721N	ENVIRONMENTAL PROTECTION	20,711	20,711
060	0603724N	NAVY ENERGY PROGRAM	47,761	47,761
061	0603725N	FACILITIES IMPROVEMENT	5,226	5,226
062	0603734N	CHALK CORAL	182,771	182,771
063	0603739N	NAVY LOGISTIC PRODUCTIVITY	3,866	3,866
064	0603746N	RETRACT MAPLE	360,065	360,065
065	0603748N	LINK PLUMERIA	237,416	237,416
066	0603751N	RETRACT ELM	37,944	37,944
067	0603764N	LINK EVERGREEN	47,312	47,312
068	0603787N	SPECIAL PROCESSES	17,408	17,408
069	0603790N	NATO RESEARCH AND DEVELOPMENT	9,359	9,359
070	0603795N	LAND ATTACK TECHNOLOGY	887	887
071	0603851M	JOINT NON-LETHAL WEAPONS TESTING	29,448	29,448
072	0603860N	JOINT PRECISION APPROACH AND LANDING SYSTEMS—DEM/VAL	91,479	91,479
073	0603925N	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	67,360	67,360
074	0604112N	GERALD R. FORD CLASS NUCLEAR AIRCRAFT CARRIER (CVN 78—80)	48,105	127,205
		Full ship shock trials for CVN-78		[79,100]
075	0604122N	REMOTE MINEHUNTING SYSTEM (RMS)	20,089	20,089
076	0604272N	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES (TADIRCM)	18,969	18,969
077	0604279N	ASE SELF-PROTECTION OPTIMIZATION	7,874	7,874
078	0604292N	MH-XX	5,298	5,298
079	0604454N	LX (R)	46,486	75,486
		LX(R) Acceleration		[29,000]
080	0604653N	JOINT COUNTER RADIO CONTROLLED IED ELECTRONIC WARFARE (JCREW)	3,817	3,817
081	0604659N	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	9,595	9,595

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
082	0604707N	SPACE AND ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINEERING SUPPORT	29,581	25,246
		Maritime concept generation and development growth		[-4,335]
083	0604786N	OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT	285,849	285,849
084	0605812M	JOINT LIGHT TACTICAL VEHICLE (JLTV) ENGINEERING AND MANUFACTURING DEVELOPMENT PH.	36,656	36,656
085	0303354N	ASW SYSTEMS DEVELOPMENT—MIP	9,835	9,835
086	0304270N	ELECTRONIC WARFARE DEVELOPMENT—MIP	580	580
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES	5,024,626	5,129,591
		SYSTEM DEVELOPMENT & DEMONSTRATION		
087	0603208N	TRAINING SYSTEM AIRCRAFT	21,708	21,708
088	0604212N	OTHER HELO DEVELOPMENT	11,101	11,101
089	0604214N	AV-8B AIRCRAFT—ENG DEV	39,878	39,878
090	0604215N	STANDARDS DEVELOPMENT	53,059	53,059
091	0604216N	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	21,358	21,358
092	0604218N	AIR/OCEAN EQUIPMENT ENGINEERING	4,515	4,515
093	0604221N	P-3 MODERNIZATION PROGRAM	1,514	1,514
094	0604230N	WARFARE SUPPORT SYSTEM	5,875	5,875
095	0604231N	TACTICAL COMMAND SYSTEM	81,553	81,553
096	0604234N	ADVANCED HAWKEYE	272,149	264,149
		Cost growth		[-8,000]
097	0604245N	H-1 UPGRADES	27,235	27,235
098	0604261N	ACOUSTIC SEARCH SENSORS	35,763	35,763
099	0604262N	V-22A	87,918	87,918
100	0604264N	AIR CREW SYSTEMS DEVELOPMENT	12,679	12,679
101	0604269N	EA-18	56,921	56,921
102	0604270N	ELECTRONIC WARFARE DEVELOPMENT	23,685	23,685
103	0604273N	EXECUTIVE HELO DEVELOPMENT	507,093	507,093
104	0604274N	NEXT GENERATION JAMMER (NGJ)	411,767	403,767
		Contract delays		[-8,000]
105	0604280N	JOINT TACTICAL RADIO SYSTEM—NAVY (JTRS-NAVY)	25,071	25,071
106	0604307N	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	443,433	421,133
		Aegis development support growth		[-22,300]
107	0604311N	LPD-17 CLASS SYSTEMS INTEGRATION	747	747
108	0604329N	SMALL DIAMETER BOMB (SDB)	97,002	84,644
		F-18 integration contract delay		[-12,358]
109	0604366N	STANDARD MISSILE IMPROVEMENTS	129,649	129,649
110	0604373N	AIRBORNE MCM	11,647	11,647
111	0604376M	MARINE AIR GROUND TASK FORCE (MAGTF) ELECTRONIC WARFARE (EW) FOR AVIATION ..	2,778	2,778
112	0604378N	NAVAL INTEGRATED FIRE CONTROL—COUNTER AIR SYSTEMS ENGINEERING	23,695	23,695
113	0604404N	UNMANNED CARRIER LAUNCHED AIRBORNE SURVEILLANCE AND STRIKE (UCLASS) SYSTEM.	134,708	484,708
		Competitive air vehicle risk reduction activities		[300,000]
		Government and industry source selection preparation		[50,000]
114	0604501N	ADVANCED ABOVE WATER SENSORS	43,914	43,914
115	0604503N	SSN-688 AND TRIDENT MODERNIZATION	109,908	109,908
116	0604504N	AIR CONTROL	57,928	57,928
117	0604512N	SHIPBOARD AVIATION SYSTEMS	120,217	120,217
118	0604522N	AIR AND MISSILE DEFENSE RADAR (AMDR) SYSTEM	241,754	241,754
119	0604558N	NEW DESIGN SSN	122,556	122,556
120	0604562N	SUBMARINE TACTICAL WARFARE SYSTEM	48,213	60,213
		Accelerate submarine combat and weapon system modernization		[12,000]
121	0604567N	SHIP CONTRACT DESIGN/ LIVE FIRE T&E	49,712	49,712
122	0604574N	NAVY TACTICAL COMPUTER RESOURCES	4,096	4,096
123	0604580N	VIRGINIA PAYLOAD MODULE (VPM)	167,719	167,719
124	0604601N	MINE DEVELOPMENT	15,122	15,122
125	0604610N	LIGHTWEIGHT TORPEDO DEVELOPMENT	33,738	33,738
126	0604654N	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	8,123	8,123
127	0604703N	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	7,686	7,686
128	0604727N	JOINT STANDOFF WEAPON SYSTEMS	405	405
129	0604755N	SHIP SELF DEFENSE (DETECT & CONTROL)	153,836	153,836
130	0604756N	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	99,619	99,619
131	0604757N	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	116,798	116,798
132	0604761N	INTELLIGENCE ENGINEERING	4,353	4,353
133	0604771N	MEDICAL DEVELOPMENT	9,443	9,443
134	0604777N	NAVIGATION/ID SYSTEM	32,469	32,469
135	0604800M	JOINT STRIKE FIGHTER (JSF)—EMD	537,901	537,901
136	0604800N	JOINT STRIKE FIGHTER (JSF)—EMD	504,736	504,736
137	0604810M	JOINT STRIKE FIGHTER FOLLOW ON DEVELOPMENT—MARINE CORPS	59,265	20,800
		Program delay		[-38,465]
138	0604810N	JOINT STRIKE FIGHTER FOLLOW ON DEVELOPMENT—NAVY	47,579	21,244
		Program delay		[-26,335]
139	0605013M	INFORMATION TECHNOLOGY DEVELOPMENT	5,914	5,914
140	0605013N	INFORMATION TECHNOLOGY DEVELOPMENT	89,711	89,711
141	0605212N	CH-53K RDTE	632,092	632,092
142	0605220N	SHIP TO SHORE CONNECTOR (SSC)	7,778	7,778
143	0605450N	JOINT AIR-TO-GROUND MISSILE (JAGM)	25,898	25,898
144	0605500N	MULTI-MISSION MARITIME AIRCRAFT (MMA)	247,929	247,929
145	0204202N	DDG-1000	103,199	103,199
146	0304231N	TACTICAL COMMAND SYSTEM—MIP	998	998
147	0304785N	TACTICAL CRYPTOLOGIC SYSTEMS	17,785	17,785
148	0305124N	SPECIAL APPLICATIONS PROGRAM	35,905	35,905

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION			6,308,800	6,555,342
MANAGEMENT SUPPORT				
149	0604256N	THREAT SIMULATOR DEVELOPMENT	30,769	30,769
150	0604258N	TARGET SYSTEMS DEVELOPMENT	112,606	112,606
151	0604759N	MAJOR T&E INVESTMENT	61,234	61,234
152	0605126N	JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION	6,995	6,995
153	0605152N	STUDIES AND ANALYSIS SUPPORT—NAVY	4,011	4,011
154	0605154N	CENTER FOR NAVAL ANALYSES	48,563	48,563
155	0605285N	NEXT GENERATION FIGHTER	5,000	5,000
157	0605804N	TECHNICAL INFORMATION SERVICES	925	925
158	0605853N	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	78,143	78,143
159	0605856N	STRATEGIC TECHNICAL SUPPORT	3,258	3,258
160	0605861N	RDT&E SCIENCE AND TECHNOLOGY MANAGEMENT	76,948	76,948
161	0605863N	RDT&E SHIP AND AIRCRAFT SUPPORT	132,122	132,122
162	0605864N	TEST AND EVALUATION SUPPORT	351,912	351,912
163	0605865N	OPERATIONAL TEST AND EVALUATION CAPABILITY	17,985	17,985
164	0605866N	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT	5,316	5,316
165	0605867N	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	6,519	6,519
166	0605873M	MARINE CORPS PROGRAM WIDE SUPPORT	13,649	13,649
SUBTOTAL MANAGEMENT SUPPORT			955,955	955,955
OPERATIONAL SYSTEMS DEVELOPMENT				
174	0101221N	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	107,039	107,039
175	0101224N	SSBN SECURITY TECHNOLOGY PROGRAM	46,506	46,506
176	0101226N	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	3,900	4,700
		Accelerate combat rapid attack weapon		[800]
177	0101402N	NAVY STRATEGIC COMMUNICATIONS	16,569	16,569
178	0203761N	RAPID TECHNOLOGY TRANSITION (RTT)	18,632	11,132
		TIPS program growth		[–7,500]
179	0204136N	F/A–18 SQUADRONS	133,265	133,265
181	0204163N	FLEET TELECOMMUNICATIONS (TACTICAL)	62,867	51,067
		Joint aerial layer network growth		[–11,800]
182	0204228N	SURFACE SUPPORT	36,045	36,045
183	0204229N	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)	25,228	25,228
184	0204311N	INTEGRATED SURVEILLANCE SYSTEM	54,218	54,218
185	0204413N	AMPHIBIOUS TACTICAL SUPPORT UNITS (DISPLACEMENT CRAFT)	11,335	11,335
186	0204460M	GROUND/AIR TASK ORIENTED RADAR (G/ATOR)	80,129	65,629
		Block II test assets early to need		[–14,500]
187	0204571N	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	39,087	39,087
188	0204574N	CRYPTOLOGIC DIRECT SUPPORT	1,915	1,915
189	0204575N	ELECTRONIC WARFARE (EW) READINESS SUPPORT	46,609	46,609
190	0205601N	HARM IMPROVEMENT	52,708	16,164
		AARGM extended range program growth		[–36,544]
191	0205604N	TACTICAL DATA LINKS	149,997	149,997
192	0205620N	SURFACE ASW COMBAT SYSTEM INTEGRATION	24,460	24,460
193	0205632N	MK–48 ADCAP	42,206	47,706
		Accelerate torpedo upgrades		[5,500]
194	0205633N	AVIATION IMPROVEMENTS	117,759	117,759
195	0205675N	OPERATIONAL NUCLEAR POWER SYSTEMS	101,323	101,323
196	0206313M	MARINE CORPS COMMUNICATIONS SYSTEMS	67,763	67,763
197	0206335M	COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S)	13,431	13,431
198	0206623M	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	56,769	48,669
		Project delays		[–8,100]
199	0206624M	MARINE CORPS COMBAT SERVICES SUPPORT	20,729	20,729
200	0206625M	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS (MIP)	13,152	13,152
201	0206629M	AMPHIBIOUS ASSAULT VEHICLE	48,535	48,535
202	0207161N	TACTICAL AIM MISSILES	76,016	76,016
203	0207163N	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	32,172	32,172
208	0303109N	SATELLITE COMMUNICATIONS (SPACE)	53,239	53,239
209	0303138N	CONSOLIDATED AFLOAT NETWORK ENTERPRISE SERVICES (CANES)	21,677	21,677
210	0303140N	INFORMATION SYSTEMS SECURITY PROGRAM	28,102	28,102
211	0303150M	WWWCCS/GLOBAL COMMAND AND CONTROL SYSTEM	294	294
213	0305160N	NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METOC)	599	599
214	0305192N	MILITARY INTELLIGENCE PROGRAM (MIP) ACTIVITIES	6,207	6,207
215	0305204N	TACTICAL UNMANNED AERIAL VEHICLES	8,550	8,550
216	0305205N	UAS INTEGRATION AND INTEROPERABILITY	41,831	41,831
217	0305208M	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	1,105	1,105
218	0305208N	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	33,149	33,149
219	0305220N	RQ–4 UAV	227,188	227,188
220	0305231N	MQ–8 UAV	52,770	52,770
221	0305232M	RQ–11 UAV	635	635
222	0305233N	RQ–7 UAV	688	688
223	0305234N	SMALL (LEVEL 0) TACTICAL UAS (STUASLO)	4,647	4,647
224	0305239M	RQ–21A	6,435	6,435
225	0305241N	MULTI-INTELLIGENCE SENSOR DEVELOPMENT	49,145	49,145
226	0305242M	UNMANNED AERIAL SYSTEMS (UAS) PAYLOADS (MIP)	9,246	9,246
227	0305421N	RQ–4 MODERNIZATION	150,854	150,854
228	0308601N	MODELING AND SIMULATION SUPPORT	4,757	4,757
229	0702207N	DEPOT MAINTENANCE (NON-IF)	24,185	24,185
231	0708730N	MARITIME TECHNOLOGY (MARITECH)	4,321	4,321
231A	999999999	CLASSIFIED PROGRAMS	1,252,185	1,252,185

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
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Line	Program Element	Item	FY 2016 Request	Agreement Authorized
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	3,482,173	3,410,029
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY	17,885,916	18,240,379
		RESEARCH, DEVELOPMENT, TEST & EVAL, AF		
		BASIC RESEARCH		
001	0601102F	DEFENSE RESEARCH SCIENCES	329,721	352,221
		Basic research program increase		[22,500]
002	0601103F	UNIVERSITY RESEARCH INITIATIVES	141,754	141,754
003	0601108F	HIGH ENERGY LASER RESEARCH INITIATIVES	13,778	13,778
		SUBTOTAL BASIC RESEARCH	485,253	507,753
		APPLIED RESEARCH		
004	0602102F	MATERIALS	125,234	125,234
005	0602201F	AEROSPACE VEHICLE TECHNOLOGIES	123,438	123,438
006	0602202F	HUMAN EFFECTIVENESS APPLIED RESEARCH	100,530	100,530
007	0602203F	AEROSPACE PROPULSION	182,326	182,326
008	0602204F	AEROSPACE SENSORS	147,291	147,291
009	0602601F	SPACE TECHNOLOGY	116,122	116,122
010	0602602F	CONVENTIONAL MUNITIONS	99,851	99,851
011	0602605F	DIRECTED ENERGY TECHNOLOGY	115,604	115,604
012	0602788F	DOMINANT INFORMATION SCIENCES AND METHODS	164,909	164,909
013	0602890F	HIGH ENERGY LASER RESEARCH	42,037	42,037
		SUBTOTAL APPLIED RESEARCH	1,217,342	1,217,342
		ADVANCED TECHNOLOGY DEVELOPMENT		
014	0603112F	ADVANCED MATERIALS FOR WEAPON SYSTEMS	37,665	47,665
		Metals Affordability Initiative		[10,000]
015	0603199F	SUSTAINMENT SCIENCE AND TECHNOLOGY (S&T)	18,378	18,378
016	0603203F	ADVANCED AEROSPACE SENSORS	42,183	42,183
017	0603211F	AEROSPACE TECHNOLOGY DEV/DEMO	100,733	100,733
018	0603216F	AEROSPACE PROPULSION AND POWER TECHNOLOGY	168,821	168,821
019	0603270F	ELECTRONIC COMBAT TECHNOLOGY	47,032	47,032
020	0603401F	ADVANCED SPACECRAFT TECHNOLOGY	54,897	54,897
021	0603444F	MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	12,853	12,853
022	0603456F	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT	25,448	25,448
023	0603601F	CONVENTIONAL WEAPONS TECHNOLOGY	48,536	48,536
024	0603605F	ADVANCED WEAPONS TECHNOLOGY	30,195	30,195
025	0603680F	MANUFACTURING TECHNOLOGY PROGRAM	42,630	52,630
		Maturation of advanced manufacturing for low-cost sustainment		[10,000]
026	0603788F	BATTLESPACE KNOWLEDGE DEVELOPMENT AND DEMONSTRATION	46,414	46,414
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT	675,785	695,785
		ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES		
027	0603260F	INTELLIGENCE ADVANCED DEVELOPMENT	5,032	5,032
029	0603438F	SPACE CONTROL TECHNOLOGY	4,070	4,070
030	0603742F	COMBAT IDENTIFICATION TECHNOLOGY	21,790	21,790
031	0603790F	NATO RESEARCH AND DEVELOPMENT	4,736	4,736
033	0603830F	SPACE SECURITY AND DEFENSE PROGRAM	30,771	30,771
034	0603851F	INTERCONTINENTAL BALLISTIC MISSILE—DEM/VAL	39,765	39,765
036	0604015F	LONG RANGE STRIKE	1,246,228	556,228
		Delayed EMD contract award		[–690,000]
037	0604317F	TECHNOLOGY TRANSFER	3,512	8,512
		Technology transfer program increase		[5,000]
038	0604327F	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS) PROGRAM	54,637	54,637
040	0604422F	WEATHER SYSTEM FOLLOW-ON	76,108	51,108
		Unjustified increase and analysis of alternatives		[–25,000]
044	0604857F	OPERATIONALLY RESPONSIVE SPACE	6,457	19,957
		SSA, Weather, or Launch Activities		[13,500]
045	0604858F	TECH TRANSITION PROGRAM	246,514	246,514
046	0605230F	GROUND BASED STRATEGIC DETERRENT	75,166	75,166
049	0207110F	NEXT GENERATION AIR DOMINANCE	8,830	8,830
050	0207455F	THREE DIMENSIONAL LONG-RANGE RADAR (3DELRR)	14,939	14,939
051	0305164F	NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE)	142,288	142,288
052	0306250F	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	81,732	96,732
		Increase USCC Cyber Operations Technology Development		[15,000]
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT & PROTOTYPES	2,062,575	1,381,075
		SYSTEM DEVELOPMENT & DEMONSTRATION		
055	0604270F	ELECTRONIC WARFARE DEVELOPMENT	929	929
056	0604281F	TACTICAL DATA NETWORKS ENTERPRISE	60,256	60,256
057	0604287F	PHYSICAL SECURITY EQUIPMENT	5,973	5,973
058	0604329F	SMALL DIAMETER BOMB (SDB)—EMD	32,624	32,624
059	0604421F	COUNTERSPACE SYSTEMS	24,208	24,208
060	0604425F	SPACE SITUATION AWARENESS SYSTEMS	32,374	32,374
061	0604426F	SPACE FENCE	243,909	243,909
062	0604429F	AIRBORNE ELECTRONIC ATTACK	8,358	8,358
063	0604441F	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD	292,235	292,235
064	0604602F	ARMAMENT/ORDNANCE DEVELOPMENT	40,154	40,154
065	0604604F	SUBMUNITIONS	2,506	2,506
066	0604617F	AGILE COMBAT SUPPORT	57,678	57,678
067	0604706F	LIFE SUPPORT SYSTEMS	8,187	8,187

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
068	0604735F	COMBAT TRAINING RANGES	15,795	15,795
069	0604800F	F-35—EMD	589,441	589,441
071	0604853F	EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE)—EMD	84,438	84,438
		EELV Program—Rocket Propulsion System Development		[100,000]
072	0604932F	LONG RANGE STANDOFF WEAPON	36,643	16,143
		Contract delay		[-20,500]
073	0604933F	ICBM FUZE MODERNIZATION	142,551	142,551
074	0605213F	F-22 MODERNIZATION INCREMENT 3.2B	140,640	140,640
075	0605214F	GROUND ATTACK WEAPONS FUZE DEVELOPMENT	3,598	3,598
076	0605221F	KC-46	602,364	402,364
		Program decrease		[-200,000]
077	0605223F	ADVANCED PILOT TRAINING	11,395	11,395
078	0605229F	CSAR HH-60 RECAPITALIZATION	156,085	156,085
080	0605431F	ADVANCED EHF MILSATCOM (SPACE)	228,230	228,230
081	0605432F	POLAR MILSATCOM (SPACE)	72,084	72,084
082	0605433F	WIDEBAND GLOBAL SATCOM (SPACE)	56,343	52,343
		Excess to need		[-4,000]
083	0605458F	AIR & SPACE OPS CENTER 10.2 RDT&E	47,629	47,629
084	0605931F	B-2 DEFENSIVE MANAGEMENT SYSTEM	271,961	271,961
085	0101125F	NUCLEAR WEAPONS MODERNIZATION	212,121	212,121
086	0207171F	F-15 EPAWSS	186,481	186,481
087	0207701F	FULL COMBAT MISSION TRAINING	18,082	18,082
088	0305176F	COMBAT SURVIVOR EVADER LOCATOR	993	993
089	0307581F	NEXTGEN JSTARS	44,343	44,343
091	0401319F	PRESIDENTIAL AIRCRAFT REPLACEMENT (PAR)	102,620	102,620
092	0701212F	AUTOMATED TEST SYSTEMS	14,563	14,563
		SUBTOTAL SYSTEM DEVELOPMENT & DEMONSTRATION	3,847,791	3,723,291
		MANAGEMENT SUPPORT		
093	0604256F	THREAT SIMULATOR DEVELOPMENT	23,844	23,844
094	0604759F	MAJOR T&E INVESTMENT	68,302	73,302
		Airborne Sensor Data Correlation Project		[5,000]
095	0605101F	RAND PROJECT AIR FORCE	34,918	34,918
097	0605712F	INITIAL OPERATIONAL TEST & EVALUATION	10,476	10,476
098	0605807F	TEST AND EVALUATION SUPPORT	673,908	673,908
099	0605860F	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	21,858	21,858
100	0605864F	SPACE TEST PROGRAM (STP)	28,228	28,228
101	0605976F	FACILITIES RESTORATION AND MODERNIZATION—TEST AND EVALUATION SUPPORT	40,518	40,518
102	0605978F	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT	27,895	27,895
103	0606017F	REQUIREMENTS ANALYSIS AND MATURATION	16,507	16,507
104	0606116F	SPACE TEST AND TRAINING RANGE DEVELOPMENT	18,997	18,997
106	0606392F	SPACE AND MISSILE CENTER (SMC) CIVILIAN WORKFORCE	185,305	176,727
		Excess to need		[-8,578]
107	0308602F	ENTREPRISE INFORMATION SERVICES (EIS)	4,841	4,841
108	0702806F	ACQUISITION AND MANAGEMENT SUPPORT	15,357	15,357
109	0804731F	GENERAL SKILL TRAINING	1,315	1,315
111	1001004F	INTERNATIONAL ACTIVITIES	2,315	2,315
		SUBTOTAL MANAGEMENT SUPPORT	1,174,584	1,171,006
		OPERATIONAL SYSTEMS DEVELOPMENT		
112	0603423F	GLOBAL POSITIONING SYSTEM III—OPERATIONAL CONTROL SEGMENT	350,232	350,232
113	0604233F	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	10,465	10,465
114	0604445F	WIDE AREA SURVEILLANCE	24,577	24,577
117	0605018F	AF INTEGRATED PERSONNEL AND PAY SYSTEM (AF-IPPS)	69,694	10,694
		Forward financing, excluding funding for audit readiness		[-59,000]
118	0605024F	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	26,718	26,718
119	0605278F	HC/MC-130 RECAP RDT&E	10,807	10,807
121	0101113F	B-52 SQUADRONS	74,520	74,520
122	0101122F	AIR-LAUNCHED CRUISE MISSILE (ALCM)	451	451
123	0101126F	B-1B SQUADRONS	2,245	2,245
124	0101127F	B-2 SQUADRONS	108,183	108,183
125	0101213F	MINUTEMAN SQUADRONS	178,929	178,929
126	0101313F	STRAT WAR PLANNING SYSTEM—USSTRATCOM	28,481	28,481
127	0101314F	NIGHT FIST—USSTRATCOM	87	87
128	0101316F	WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	5,315	5,315
131	0105921F	SERVICE SUPPORT TO STRATCOM—SPACE ACTIVITIES	8,090	8,090
132	0205219F	MQ-9 UAV	123,439	123,439
134	0207131F	A-10 SQUADRONS		16,200
		A-10 restoration: operational flight program development		[16,200]
135	0207133F	F-16 SQUADRONS	148,297	198,297
		AESA Radar Integration		[50,000]
136	0207134F	F-15E SQUADRONS	179,283	192,079
		Transfer from procurement		[12,796]
137	0207136F	MANNED DESTRUCTIVE SUPPRESSION	14,860	14,860
138	0207138F	F-22A SQUADRONS	262,552	262,552
139	0207142F	F-35 SQUADRONS	115,395	53,921
		Program delay		[-61,474]
140	0207161F	TACTICAL AIM MISSILES	43,360	43,360
141	0207163F	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	46,160	46,160
143	0207224F	COMBAT RESCUE AND RECOVERY	412	412
144	0207227F	COMBAT RESCUE—PARARESCUE	657	657
145	0207247F	AF TENCAP	31,428	31,428

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
146	0207249F	PRECISION ATTACK SYSTEMS PROCUREMENT	1,105	1,105
147	0207253F	COMPASS CALL	14,249	14,249
148	0207268F	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	103,942	103,942
149	0207325F	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)	12,793	12,793
150	0207410F	AIR & SPACE OPERATIONS CENTER (AOC)	21,193	21,193
151	0207412F	CONTROL AND REPORTING CENTER (CRC)	559	559
152	0207417F	AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)	161,812	161,812
153	0207418F	TACTICAL AIRBORNE CONTROL SYSTEMS	6,001	6,001
155	0207431F	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	7,793	7,793
156	0207444F	TACTICAL AIR CONTROL PARTY-MOD	12,465	12,465
157	0207448F	C2ISR TACTICAL DATA LINK	1,681	1,681
159	0207452F	DCAPES	16,796	16,796
161	0207590F	SEEK EAGLE	21,564	21,564
162	0207601F	USAF MODELING AND SIMULATION	24,994	24,994
163	0207605F	WARGAMING AND SIMULATION CENTERS	6,035	6,035
164	0207697F	DISTRIBUTED TRAINING AND EXERCISES	4,358	4,358
165	0208006F	MISSION PLANNING SYSTEMS	55,835	55,835
167	0208087F	AF OFFENSIVE CYBERSPACE OPERATIONS	12,874	12,874
168	0208088F	AF DEFENSIVE CYBERSPACE OPERATIONS	7,681	7,681
171	0301017F	GLOBAL SENSOR INTEGRATED ON NETWORK (GSIN)	5,974	5,974
177	0301400F	SPACE SUPERIORITY INTELLIGENCE	13,815	13,815
178	0302015F	E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC)	80,360	80,360
179	0303001F	FAMILY OF ADVANCED BLOS TERMINALS (FAB-T)	3,907	3,907
180	0303131F	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN)	75,062	75,062
181	0303140F	INFORMATION SYSTEMS SECURITY PROGRAM	46,599	46,599
183	0303142F	GLOBAL FORCE MANAGEMENT—DATA INITIATIVE	2,470	2,470
186	0304260F	AIRBORNE SIGINT ENTERPRISE	112,775	112,775
189	0305099F	GLOBAL AIR TRAFFIC MANAGEMENT (GATM)	4,235	4,235
192	0305110F	SATELLITE CONTROL NETWORK (SPACE)	7,879	5,879
		Unjustified increase in systems engineering		[-2,000]
193	0305111F	WEATHER SERVICE	29,955	29,955
194	0305114F	AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM (ATCALS)	21,485	21,485
195	0305116F	AERIAL TARGETS	2,515	2,515
198	0305128F	SECURITY AND INVESTIGATIVE ACTIVITIES	472	472
199	0305145F	ARMS CONTROL IMPLEMENTATION	12,137	12,137
200	0305146F	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	361	361
203	0305173F	SPACE AND MISSILE TEST AND EVALUATION CENTER	3,162	3,162
204	0305174F	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT	1,543	1,543
205	0305179F	INTEGRATED BROADCAST SERVICE (IBS)	7,860	7,860
206	0305182F	SPACELIFT RANGE SYSTEM (SPACE)	6,902	6,902
207	0305202F	DRAGON U-2	34,471	34,471
209	0305206F	AIRBORNE RECONNAISSANCE SYSTEMS	50,154	60,154
		Wide Area Surveillance Capability		[10,000]
210	0305207F	MANNED RECONNAISSANCE SYSTEMS	13,245	13,245
211	0305208F	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	22,784	22,784
212	0305219F	MQ-1 PREDATOR A UAV	716	716
213	0305220F	RQ-4 UAV	208,053	203,053
		Program delays		[-5,000]
214	0305221F	NETWORK-CENTRIC COLLABORATIVE TARGETING	21,587	21,587
215	0305236F	COMMON DATA LINK EXECUTIVE AGENT (CDL EA)	43,986	43,986
216	0305238F	NATO AGS	197,486	138,400
		Transfer to Procurement for NATO AWACS		[-59,086]
217	0305240F	SUPPORT TO DCGS ENTERPRISE	28,434	28,434
218	0305265F	GPS III SPACE SEGMENT	180,902	180,902
220	0305614F	JSPC MISSION SYSTEM	81,911	81,911
221	0305881F	RAPID CYBER ACQUISITION	3,149	3,149
222	0305913F	NUDET DETECTION SYSTEM (SPACE)	14,447	14,447
223	0305940F	SPACE SITUATION AWARENESS OPERATIONS	20,077	20,077
225	0308699F	SHARED EARLY WARNING (SEW)	853	853
226	0401115F	C-130 AIRLIFT SQUADRON	33,962	33,962
227	0401119F	C-5 AIRLIFT SQUADRONS (IF)	42,864	22,864
		Forward financing		[-20,000]
228	0401130F	C-17 AIRCRAFT (IF)	54,807	54,807
229	0401132F	C-130J PROGRAM	31,010	31,010
230	0401134F	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCIM)	6,802	6,802
231	0401219F	KC-10S	1,799	1,799
232	0401314F	OPERATIONAL SUPPORT AIRLIFT	48,453	48,453
233	0401318F	CV-22	36,576	36,576
235	0408011F	SPECIAL TACTICS / COMBAT CONTROL	7,963	7,963
236	0702207F	DEPOT MAINTENANCE (NON-IF)	1,525	1,525
237	0708610F	LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	112,676	68,400
		Program growth		[-44,276]
238	0708611F	SUPPORT SYSTEMS DEVELOPMENT	12,657	12,657
239	0804743F	OTHER FLIGHT TRAINING	1,836	1,836
240	0808716F	OTHER PERSONNEL ACTIVITIES	121	121
241	0901202F	JOINT PERSONNEL RECOVERY AGENCY	5,911	5,911
242	0901218F	CIVILIAN COMPENSATION PROGRAM	3,604	3,604
243	0901220F	PERSONNEL ADMINISTRATION	4,598	4,598
244	0901226F	AIR FORCE STUDIES AND ANALYSIS AGENCY	1,103	1,103
246	0901538F	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	101,840	101,840
246A	999999999	CLASSIFIED PROGRAMS	12,780,142	12,780,142
		SUBTOTAL OPERATIONAL SYSTEMS DEVELOPMENT	17,010,339	16,848,499

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, AF			26,473,669	25,544,751
RESEARCH, DEVELOPMENT, TEST & EVAL, DW				
BASIC RESEARCH				
001	0601000BR	DTRA BASIC RESEARCH INITIATIVE	38,436	38,436
002	0601101E	DEFENSE RESEARCH SCIENCES	333,119	333,119
003	060110D8Z	BASIC RESEARCH INITIATIVES	42,022	42,022
004	0601117E	BASIC OPERATIONAL MEDICAL RESEARCH SCIENCE	56,544	56,544
005	0601120D8Z	NATIONAL DEFENSE EDUCATION PROGRAM	49,453	54,453
		STEM program increase		[5,000]
006	0601228D8Z	HISTORICALLY BLACK COLLEGES AND UNIVERSITIES/MINORITY INSTITUTIONS	25,834	35,834
		Program increase		[10,000]
007	0601384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	46,261	46,261
SUBTOTAL BASIC RESEARCH			591,669	606,669
APPLIED RESEARCH				
008	0602000D8Z	JOINT MUNITIONS TECHNOLOGY	19,352	19,352
009	0602115E	BIOMEDICAL TECHNOLOGY	114,262	114,262
010	0602234D8Z	LINCOLN LABORATORY RESEARCH PROGRAM	51,026	51,026
011	0602251D8Z	APPLIED RESEARCH FOR THE ADVANCEMENT OF S&T PRIORITIES	48,226	48,226
012	0602303E	INFORMATION & COMMUNICATIONS TECHNOLOGY	356,358	356,358
014	0602383E	BIOLOGICAL WARFARE DEFENSE	29,265	29,265
015	0602384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	208,111	208,111
016	0602668D8Z	CYBER SECURITY RESEARCH	13,727	13,727
018	0602702E	TACTICAL TECHNOLOGY	314,582	309,582
		Multi-azimuth defense fast intercept round engagement system		[-5,000]
019	0602715E	MATERIALS AND BIOLOGICAL TECHNOLOGY	220,115	201,721
		Program decrease		[-18,394]
020	0602716E	ELECTRONICS TECHNOLOGY	174,798	174,798
021	0602718BR	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES	155,415	155,415
022	0602751D8Z	SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH	8,824	8,824
023	1160401BB	SOF TECHNOLOGY DEVELOPMENT	37,517	37,517
SUBTOTAL APPLIED RESEARCH			1,751,578	1,728,184
ADVANCED TECHNOLOGY DEVELOPMENT				
024	0603000D8Z	JOINT MUNITIONS ADVANCED TECHNOLOGY	25,915	25,915
026	0603122D8Z	COMBATING TERRORISM TECHNOLOGY SUPPORT	71,171	111,171
		Program increase		[40,000]
027	0603133D8Z	FOREIGN COMPARATIVE TESTING	21,782	21,782
028	0603160BR	COUNTERPROLIFERATION INITIATIVES—PROLIFERATION PREVENTION AND DEFEAT	290,654	290,654
030	0603176C	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	12,139	12,139
031	0603177C	DISCRIMINATION SENSOR TECHNOLOGY	28,200	28,200
032	0603178C	WEAPONS TECHNOLOGY	45,389	7,367
		High Power Directed Energy—Missile Destruct		[-26,055]
		Move to support Multiple Object Kill Vehicle		[-11,967]
033	0603179C	ADVANCED C4ISR	9,876	9,876
034	0603180C	ADVANCED RESEARCH	17,364	17,364
035	0603225D8Z	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	18,802	18,802
036	0603264S	AGILE TRANSPORTATION FOR THE 21ST CENTURY (AT21)—THEATER CAPABILITY	2,679	2,679
037	0603274C	SPECIAL PROGRAM—MDA TECHNOLOGY	64,708	51,458
		Unjustified growth		[-13,250]
038	0603286E	ADVANCED AEROSPACE SYSTEMS	185,043	185,043
039	0603287E	SPACE PROGRAMS AND TECHNOLOGY	126,692	126,692
040	0603288D8Z	ANALYTIC ASSESSMENTS	14,645	14,645
041	0603289D8Z	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	59,830	49,830
		Program decrease		[-10,000]
042	0603294C	COMMON KILL VEHICLE TECHNOLOGY	46,753	7,195
		MOKV Concept Development		[-39,558]
043	0603384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEVELOPMENT	140,094	140,094
044	0603527D8Z	RETRACT LARCH	118,666	108,666
		Program decrease		[-10,000]
045	0603618D8Z	JOINT ELECTRONIC ADVANCED TECHNOLOGY	43,966	23,966
		Program decrease		[-20,000]
046	0603648D8Z	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	141,540	116,540
		Program decrease		[-25,000]
047	0603662D8Z	NETWORKED COMMUNICATIONS CAPABILITIES	6,980	6,980
050	0603680D8Z	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM	157,056	142,056
		Unjustified growth		[-15,000]
051	0603699D8Z	EMERGING CAPABILITIES TECHNOLOGY DEVELOPMENT	33,515	41,015
		Efforts to counter-ISIL and Russian aggression		[7,500]
052	0603712S	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	16,543	16,543
053	0603713S	DEPLOYMENT AND DISTRIBUTION ENTERPRISE TECHNOLOGY	29,888	29,888
054	0603716D8Z	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	65,836	65,836
055	0603720S	MICROELECTRONICS TECHNOLOGY DEVELOPMENT AND SUPPORT	79,037	89,037
		Trusted Source Implementation for Field Programmable Gate Arrays Study		[10,000]
056	0603727D8Z	JOINT WARFIGHTING PROGRAM	9,626	5,000
		Program decrease		[-4,626]
057	0603739E	ADVANCED ELECTRONICS TECHNOLOGIES	79,021	79,021
058	0603760E	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS	201,335	201,335
059	0603766E	NETWORK-CENTRIC WARFARE TECHNOLOGY	452,861	432,861
		Excessive program growth		[-20,000]

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Line	Program Element	Item	FY 2016 Request	Agreement Authorized
060	0603767E	SENSOR TECHNOLOGY	257,127	257,127
061	0603769SE	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT	10,771	10,771
062	0603781D8Z	SOFTWARE ENGINEERING INSTITUTE	15,202	15,202
063	0603826D8Z	QUICK REACTION SPECIAL PROJECTS	90,500	65,500
		Unjustified growth		[-25,000]
066	0603833D8Z	ENGINEERING SCIENCE & TECHNOLOGY	18,377	18,377
067	0603941D8Z	TEST & EVALUATION SCIENCE & TECHNOLOGY	82,589	82,589
068	0604055D8Z	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT	37,420	37,420
069	0303310D8Z	CWMD SYSTEMS	42,488	42,488
070	1160402BB	SOF ADVANCED TECHNOLOGY DEVELOPMENT	57,741	57,741
		SUBTOTAL ADVANCED TECHNOLOGY DEVELOPMENT	3,229,821	3,066,865
		ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES		
071	0603161D8Z	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT RDT&E ADC&P	31,710	31,710
073	0603600D8Z	WALKOFF	90,567	90,567
074	0603714D8Z	ADVANCED SENSORS APPLICATION PROGRAM	15,900	15,900
075	0603851D8Z	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	52,758	52,758
076	0603881C	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	228,021	228,021
077	0603882C	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	1,284,891	1,284,891
077A	0603XXXX	MULTIPLE-OBJECT KILL VEHICLE		81,525
		Divert attitude control systems technology to support Multi-Object Kill Vehicle		[10,000]
		Establish MOKV Program of Record		[71,525]
078	0603884BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—DEM/VAL	172,754	172,754
079	0603884C	BALLISTIC MISSILE DEFENSE SENSORS	233,588	233,588
080	0603890C	BMD ENABLING PROGRAMS	409,088	409,088
080A	0603XXXX	WEAPONS TECHNOLOGY—HIGH POWER DE		26,055
		High Power Directed Energy—Missile Destruct		[26,055]
081	0603891C	SPECIAL PROGRAMS—MDA	400,387	400,387
082	0603892C	AEGIS BMD	843,355	843,355
083	0603893C	SPACE TRACKING & SURVEILLANCE SYSTEM	31,632	31,632
084	0603895C	BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS	23,289	23,289
085	0603896C	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT AND COMMUNICATI.	450,085	437,785
		Future Spirals concurrency with multiple ongoing efforts and excess growth		[-12,300]
086	0603898C	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT	49,570	49,570
087	0603904C	MISSILE DEFENSE INTEGRATION & OPERATIONS CENTER (MDIOC)	49,211	49,211
088	0603906C	REGARDING TRENCH	9,583	9,583
089	0603907C	SEA BASED X-BAND RADAR (SBX)	72,866	72,866
090	0603913C	ISRAELI COOPERATIVE PROGRAMS	102,795	267,595
		Arrow 3		[19,500]
		Arrow System Improvement Program		[45,500]
		David's Sling		[99,800]
091	0603914C	BALLISTIC MISSILE DEFENSE TEST	274,323	274,323
092	0603915C	BALLISTIC MISSILE DEFENSE TARGETS	513,256	513,256
093	0603920D8Z	HUMANITARIAN DEMINING	10,129	10,129
094	0603923D8Z	COALITION WARFARE	10,350	10,350
095	0604016D8Z	DEPARTMENT OF DEFENSE CORROSION PROGRAM	1,518	11,518
		Program Increase		[10,000]
096	0604115C	TECHNOLOGY MATURATION INITIATIVES	96,300	96,300
097	0604250D8Z	ADVANCED INNOVATIVE TECHNOLOGIES	469,798	469,798
098	0604400D8Z	DEPARTMENT OF DEFENSE (DOD) UNMANNED AIRCRAFT SYSTEM (UAS) COMMON DEVELOPMENT.	3,129	3,129
103	0604826J	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY ASSESSMENTS.	25,200	25,200
105	0604873C	LONG RANGE DISCRIMINATION RADAR (LRDR)	137,564	137,564
106	0604874C	IMPROVED HOMELAND DEFENSE INTERCEPTORS	278,944	298,944
		Redesigned kill vehicle development		[20,000]
107	0604876C	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT TEST	26,225	26,225
108	0604878C	AEGIS BMD TEST	55,148	55,148
109	0604879C	BALLISTIC MISSILE DEFENSE SENSOR TEST	86,764	86,764
110	0604880C	LAND-BASED SM-3 (LBSM3)	34,970	34,970
111	0604881C	AEGIS SM-3 BLOCK IIA CO-DEVELOPMENT	172,645	172,645
112	0604887C	BALLISTIC MISSILE DEFENSE MIDCOURSE SEGMENT TEST	64,618	64,618
114	0303191D8Z	JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM	2,660	2,660
115	0305103C	CYBER SECURITY INITIATIVE	963	963
		SUBTOTAL ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES	6,816,554	7,106,634
		SYSTEM DEVELOPMENT AND DEMONSTRATION		
116	0604161D8Z	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT RDT&E SDD	8,800	8,800
117	0604165D8Z	PROMPT GLOBAL STRIKE CAPABILITY DEVELOPMENT	78,817	88,817
		Concept development by the Army of a CPGS option		[5,000]
		Concept development by the Navy of a CPGS option		[5,000]
118	0604384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—EMD	303,647	303,647
119	0604764K	ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)	23,424	23,424
120	0604771D8Z	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	14,285	14,285
121	0605000BR	WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES	7,156	7,156
122	0605013BL	INFORMATION TECHNOLOGY DEVELOPMENT	12,542	42
		DCMA program decrease		[-12,500]
123	0605021SE	HOMELAND PERSONNEL SECURITY INITIATIVE	191	191
124	0605022D8Z	DEFENSE EXPORTABILITY PROGRAM	3,273	3,273
125	0605027D8Z	OUSD(C) IT DEVELOPMENT INITIATIVES	5,962	5,962
126	0605070S	DOD ENTERPRISE SYSTEMS DEVELOPMENT AND DEMONSTRATION	13,412	13,412

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
127	0605075D8Z	DCMO POLICY AND INTEGRATION	2,223	2,223
128	0605080S	DEFENSE AGENCY INITIATIVES (DAI)—FINANCIAL SYSTEM	31,660	31,660
129	0605090S	DEFENSE RETIRED AND ANNUITANT PAY SYSTEM (DRAS)	13,085	13,085
130	0605210D8Z	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES	7,209	7,209
131	0303141K	GLOBAL COMBAT SUPPORT SYSTEM	15,158	13,794
		Early to need		[-1,364]
132	0305304D8Z	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT (EEIM)	4,414	4,414
		SUBTOTAL SYSTEM DEVELOPMENT AND DEMONSTRATION	545,258	541,394
		MANAGEMENT SUPPORT		
133	0604774D8Z	DEFENSE READINESS REPORTING SYSTEM (DRRS)	5,581	5,581
134	0604875D8Z	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	3,081	3,081
135	0604940D8Z	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT (CTEIP)	229,125	229,125
136	0604942D8Z	ASSESSMENTS AND EVALUATIONS	28,674	21,674
		Program decrease		[-7,000]
138	0605100D8Z	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC)	45,235	45,235
139	0605104D8Z	TECHNICAL STUDIES, SUPPORT AND ANALYSIS	24,936	24,936
141	0605126J	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION (JAMDO)	35,471	35,471
144	0605142D8Z	SYSTEMS ENGINEERING	37,655	37,655
145	0605151D8Z	STUDIES AND ANALYSIS SUPPORT—OSD	3,015	3,015
146	0605161D8Z	NUCLEAR MATTERS-PHYSICAL SECURITY	5,287	5,287
147	0605170D8Z	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	5,289	5,289
148	0605200D8Z	GENERAL SUPPORT TO USD (INTELLIGENCE)	2,120	2,120
149	0605384BP	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	102,264	102,264
158	0605790D8Z	SMALL BUSINESS INNOVATION RESEARCH (SBIR)/ SMALL BUSINESS TECHNOLOGY TRANSFER	2,169	2,169
159	0605798D8Z	DEFENSE TECHNOLOGY ANALYSIS	13,960	13,960
160	0605801KA	DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	51,775	51,775
161	0605803SE	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING AND EVALUATION	9,533	9,533
162	0605804D8Z	DEVELOPMENT TEST AND EVALUATION	17,371	21,371
		Program increase		[4,000]
163	0605898E	MANAGEMENT HQ—R&D	71,571	71,571
164	0606100D8Z	BUDGET AND PROGRAM ASSESSMENTS	4,123	4,123
165	0203345D8Z	DEFENSE OPERATIONS SECURITY INITIATIVE (DOSI)	1,946	1,946
166	0204571J	JOINT STAFF ANALYTICAL SUPPORT	7,673	7,673
169	0303166J	SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES	10,413	10,413
170	0303260D8Z	DEFENSE MILITARY DECEPTION PROGRAM OFFICE (DMDPO)	971	971
171	0305193D8Z	CYBER INTELLIGENCE	6,579	6,579
173	0804767D8Z	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION (CE2T2)—MHA	43,811	43,811
174	0901598C	MANAGEMENT HQ—MDA	35,871	35,871
176	0903230D8W	WHS—MISSION OPERATIONS SUPPORT—IT	1,072	1,072
177A	9999999999	CLASSIFIED PROGRAMS	49,500	49,500
		SUBTOTAL MANAGEMENT SUPPORT	856,071	853,071
		OPERATIONAL SYSTEM DEVELOPMENT		
178	0604130V	ENTERPRISE SECURITY SYSTEM (ESS)	7,929	7,929
179	0605127T	REGIONAL INTERNATIONAL OUTREACH (RIO) AND PARTNERSHIP FOR PEACE INFORMATION MANA.	1,750	1,750
180	0605147T	OVERSEAS HUMANITARIAN ASSISTANCE SHARED INFORMATION SYSTEM (OHAIS)	294	294
181	0607210D8Z	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT	22,576	22,576
182	0607310D8Z	CWMD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT	1,901	1,901
183	0607327T	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT INFORMATION SYSTEMS (G-TSCMIS)	8,474	8,474
184	0607384BP	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS DEVELOPMENT)	33,561	33,561
186	0208043J	PLANNING AND DECISION AID SYSTEM (PDAS)	3,061	3,061
187	0208045K	C4I INTEROPERABILITY	64,921	64,921
189	0301144K	JOINT/ALLIED COALITION INFORMATION SHARING	3,645	3,645
193	0302016K	NATIONAL MILITARY COMMAND SYSTEM-WIDE SUPPORT	963	963
194	0302019K	DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGRATION	10,186	10,186
195	0303126K	LONG-HAUL COMMUNICATIONS—DCS	36,883	36,883
196	0303131K	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN)	13,735	13,735
197	0303135G	PUBLIC KEY INFRASTRUCTURE (PKI)	6,101	6,101
198	0303136G	KEY MANAGEMENT INFRASTRUCTURE (KMI)	43,867	43,867
199	0303140D8Z	INFORMATION SYSTEMS SECURITY PROGRAM	8,957	8,957
200	0303140G	INFORMATION SYSTEMS SECURITY PROGRAM	146,890	146,890
201	0303150K	GLOBAL COMMAND AND CONTROL SYSTEM	21,503	21,503
202	0303153K	DEFENSE SPECTRUM ORGANIZATION	20,342	20,342
203	0303170K	NET-CENTRIC ENTERPRISE SERVICES (NCES)	444	444
205	0303610K	TELEPORT PROGRAM	1,736	1,736
206	0304210BB	SPECIAL APPLICATIONS FOR CONTINGENCIES	65,060	65,060
210	0305103K	CYBER SECURITY INITIATIVE	2,976	2,976
215	0305186D8Z	POLICY R&D PROGRAMS	4,182	4,182
216	0305199D8Z	NET CENTRICITY	18,130	18,130
218	0305208BB	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	5,302	5,302
221	0305208K	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	3,239	3,239
225	0305327V	INSIDER THREAT	11,733	11,733
226	0305387D8Z	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM	2,119	2,119
234	0708011S	INDUSTRIAL PREPAREDNESS	24,605	19,245
		DLA Uniform Research		[-5,360]
235	0708012S	LOGISTICS SUPPORT ACTIVITIES	1,770	1,770
236	0902298J	MANAGEMENT HQ—OJCS	2,978	2,978
237	1105219BB	MQ-9 UAV	18,151	23,151

**“SEC. 4201. RESEARCH, DEVELOPMENT, TEST, AND EVALUATION
(In Thousands of Dollars)”**

Line	Program Element	Item	FY 2016 Request	Agreement Authorized
		<i>Medium Altitude Long Endurance Tactical (MALET) MQ-9 Unmanned Aerial Vehicle</i>		<i>[5,000]</i>
238	1105232BB	RQ-11 UAV	758	758
240	1160403BB	AVIATION SYSTEMS	173,934	189,134
		<i>MC-130 Terrain Following/Terrain Avoidance Radar Program</i>		<i>[15,200]</i>
241	1160405BB	INTELLIGENCE SYSTEMS DEVELOPMENT	6,866	6,866
242	1160408BB	OPERATIONAL ENHANCEMENTS	63,008	63,008
243	1160431BB	WARRIOR SYSTEMS	25,342	25,342
244	1160432BB	SPECIAL PROGRAMS	3,401	3,401
245	1160480BB	SOF TACTICAL VEHICLES	3,212	3,212
246	1160483BB	MARITIME SYSTEMS	63,597	63,597
247	1160489BB	GLOBAL VIDEO SURVEILLANCE ACTIVITIES	3,933	3,933
248	1160490BB	OPERATIONAL ENHANCEMENTS INTELLIGENCE	10,623	10,623
248A	999999999	CLASSIFIED PROGRAMS	3,564,272	3,564,272
		SUBTOTAL OPERATIONAL SYSTEM DEVELOPMENT	4,538,910	4,553,750
		UNDISTRIBUTED		
249	XXXXXXX	DEFENSE WIDE CYBER VULNERABILITY ASSESSMENT		200,000
		<i>Assess all major weapon systems for cyber vulnerability</i>		<i>[200,000]</i>
251	XXXXXXX	TECHNOLOGY OFFSET INITIATIVE		300,000
		<i>Supports innovative technology development</i>		<i>[300,000]</i>
		SUBTOTAL UNDISTRIBUTED		500,000
		TOTAL RESEARCH, DEVELOPMENT, TEST & EVAL, DW	18,329,861	18,956,567
		OPERATIONAL TEST & EVAL, DEFENSE MANAGEMENT SUPPORT		
001	0605118OTE	OPERATIONAL TEST AND EVALUATION	76,838	76,838
002	0605131OTE	LIVE FIRE TEST AND EVALUATION	46,882	46,882
003	0605814OTE	OPERATIONAL TEST ACTIVITIES AND ANALYSES	46,838	46,838
		SUBTOTAL MANAGEMENT SUPPORT	170,558	170,558
		TOTAL OPERATIONAL TEST & EVAL, DEFENSE	170,558	170,558
		TOTAL RDT&E	69,784,963	70,005,814”.

Mr. ROGERS of Alabama (during the reading). Mr. Speaker, I ask unanimous consent to dispense with the reading.

The SPEAKER pro tempore. Is there objection to the request of the gentleman from Alabama?

There was no objection.

The SPEAKER pro tempore. Is there objection to the original request of the gentleman from Alabama?

There was no objection.

A motion to reconsider was laid on the table.

ANNOUNCEMENT BY THE SPEAKER PRO TEMPORE

The SPEAKER pro tempore. Pursuant to clause 8 of rule XX, proceedings will resume on motions to suspend the rules previously postponed.

Votes will be taken in the following order:

H.R. 308, by the yeas and nays;

H.R. 1338, by the yeas and nays;

H.R. 1384, by the yeas and nays.

The first electronic vote will be conducted as a 15-minute vote. Remaining electronic votes will be conducted as 5-minute votes.

KEEP THE PROMISE ACT OF 2015

The SPEAKER pro tempore. The unfinished business is the vote on the motion to suspend the rules and pass the bill (H.R. 308) to prohibit gaming activities on certain Indian lands in Arizona until the expiration of certain gaming compacts, on which the yeas and nays were ordered.

The Clerk read the title of the bill.

The SPEAKER pro tempore. The question is on the motion offered by the gentleman from Alaska (Young) that the House suspend the rules and pass the bill.

The vote was taken by electronic device, and there were—yeas 263, nays 146, not voting 24, as follows:

[Roll No. 626]

YEAS—263

Abraham	Cartwright	Fitzpatrick	Huelskamp	McMorris	Roskam
Aderholt	Chabot	Fleischmann	Huffman	Rodgers	Ross
Aguilar	Chaffetz	Fleming	Huizenga (MI)	McNerney	Rothfus
Allen	Clawson (FL)	Flores	Hunter	Meadows	Rouzer
Amodei	Coffman	Forbes	Hurd (TX)	Meehan	Royce
Ashford	Cole	Fortenberry	Hurt (VA)	Messer	Ruiz
Babin	Collins (GA)	Fox	Israel	Mica	Russell
Barletta	Collins (NY)	Franks (AZ)	Issa	Miller (FL)	Salmon
Barr	Comstock	Frelinghuysen	Jenkins (KS)	Miller (MI)	Sanford
Barton	Conaway	Garrett	Jenkins (WV)	Moolenaar	Scalise
Becerra	Conyers	Gibbs	Johnson (OH)	Mooney (WV)	Schweikert
Benishek	Cook	Gibson	Johnson, Sam	Moore	Scott, Austin
Bera	Costa	Gohmert	Jolly	Mullin	Sensenbrenner
Beyer	Costello (PA)	Goodlatte	Jordan	Mulvaney	Sessions
Bilirakis	Cramer	Gosar	Katko	Murphy (PA)	Shimkus
Bishop (MI)	Crawford	Gowdy	Kelly (MS)	Neugebauer	Shuster
Bishop (UT)	Crenshaw	Granger	Kelly (PA)	Newhouse	Simpson
Black	Culberson	Graves (GA)	Kildee	Noem	Smith (MO)
Blackburn	Curbelo (FL)	Graves (LA)	Kind	Nugent	Smith (NE)
Blum	Davis, Rodney	Graves (MO)	King (NY)	Nunes	Smith (NJ)
Bost	Delaney	Griffith	Kinzing (IL)	Olson	Smith (TX)
Boustany	Denham	Grothman	Kirkpatrick	Palazzo	Stefanik
Brady (TX)	Dent	Guinta	Kline	Pallone	Stewart
Brat	DeSantis	Guthrie	Knight	Palmer	Stivers
Bridenstine	DesJarlais	Hahn	Labrador	Paulsen	Stutzman
Brooks (AL)	Diaz-Balart	Hanna	LaHood	Pearce	Takano
Brooks (IN)	Dold	Hardy	LaMalfa	Pelosi	Thornberry
Buchanan	Donovan	Harper	Lamborn	Perry	Tipton
Buck	Duffy	Harris	Lance	Pittenger	Trott
Bucshon	Duncan (SC)	Hartzler	Latta	Pitts	Turner
Burgess	Duncan (TN)	Heck (NV)	Lipinski	Poe (TX)	Upton
Byrne	Ellmers (NC)	Hensarling	LoBiondo	Poliquin	Valadao
Calvert	Emmer (MN)	Herrera Beutler	Lofgren	Pompeo	Walberg
Capps	Engel	Hice, Jody B.	Long	Posey	Walden
Cárdenas	Farenthold	Hill	Loudermilk	Price, Tom	Walker
Carter (GA)	Farr	Holding	Love	Quigley	Walorski
Carter (TX)	Fincher	Hudson	Lowenthal	Ratcliffe	Walters, Mimi
			Lucas	Reed	Wasserman
			Luetkemeyer	Reichert	Schultz
			Lujan, Ben Ray	Renacci	Weber (TX)
			(NM)	Ribble	Webster (FL)
			Lummis	Rice (SC)	Wenstrup
			MacArthur	Rigell	Westerman
			Marino	Roby	Westmoreland
			McCarthy	Roe (TN)	Williams
			McCaul	Rogers (AL)	Wilson (SC)
			McCollum	Rogers (KY)	Wittman
			Hill	Rokita	Womack
			McHenry	Rooney (FL)	Woodall
			McKinley	Ros-Lehtinen	Yoder