TITLE IV - RESEARCH, DEVELOPMENT, TEST AND EVALUATION

The conference agreement provides $77,271,482,000 in Title IV, Research, Development, Test and Evaluation, instead of $76,231,440,000 as proposed by the House and $75,382,046,000 as proposed by the Senate. The conference agreement on items addressed by either the House or the Senate is as follows:

(In thousands of dollars)

	Budget	House	Senate	Conference
RECAPITULATION				
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY.....	10,589,604	11,509,540	11,355,005	12,126,591
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY.....	17,075,536	17,718,624	17,472,210	17,918,522
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE.	26,711,940	26,163,917	26,070,841	26,255,471
RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE.....	20,559,850	20,659,095	20,303,726	20,790,634
OPERATIONAL TEST AND EVALUATION, DEFENSE.....	180,264	180,264	180,264	180,264
GRAND TOTAL, RDT&E.....	75,117,194	76,231,440	75,382,046	77,271,482

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 this report are congressional interest items for the purpose of the Base for Reprogramming (DD 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, specifically addressed in the conference report. These items remain special interest items whether or not they are repeated in a subsequent conference report.

REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The conferees direct the Department of Defense to continue to follow the reprogramming guidance specified in the report accompanying the House version of the fiscal year 2006 Department of Defense Appropriations bill (H.R. 109–119). 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. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20% of the procurement or research, development, test and evaluation line, whichever is less. These thresholds are cumulative. 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 Department of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this report.

CRUISE MISSILE DEFENSE

The conferees concur with requirements stated by the House with regard to cruise missile defense. The conferees direct that the required report on this matter be provided in classified and unclassified format.

PROMPT GLOBAL STRIKE

The conferees agree to provide no funding for testing, fabrication or deployment of a Conventional Trident Modification (CTM) program. As an alternative, the conferees have provided $100,000,000 in a new Prompt Global Strike program element within the Research, Development, Test and Evaluation, Defense-Wide appropriation only for development of promising conventional prompt global strike technologies. This alternative consolidates funding for conventional prompt global strike efforts under the cognizance of the Under Secretary of Defense (Acquisition, Technology, and Logistics) by shifting funding from the Navy CTM program and the Air Force Common Aero Vehicle program. Funding for the FALCON program remains within the Defense Advanced Research Projects Agency. Funds in the new conventional prompt global strike program element shall be applied to propulsion and guidance systems, mission planning, re-entry vehicle design, modeling and

simulation efforts, command and control, and launch system infrastructure. Additionally, funding may be applied towards efforts such as strategic policy compliance, intermediate range missile concepts, advanced non-nuclear warheads, and other mission enabling capabilities.

The conferees direct that the Department submit a report to the congressional defense committees within 90 days of enactment of this Act that discusses the technology thrusts and investment objectives for the conventional prompt global strike effort. The report shall provide details on the test programs and platforms; specific activities to be undertaken in fiscal year 2008; and the mid- and long-term science and technology strategic plans. In addition, the report shall clearly address the prospective allocation of funds, both near and long-term, among the technology thrust areas and platforms.

FUNDING INCREASES

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

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

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

(In thousands of dollars)

		Budget	House	Senate	Conference
	RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY				
	BASIC RESEARCH				
1	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	19,266	19,266	22,266	21,666
2	DEFENSE RESEARCH SCIENCES	137,676	161,176	147,176	166,076
3	UNIVERSITY RESEARCH INITIATIVES	64,843	74,743	80,843	82,943
4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	84,034	96,784	104,834	110,804
	TOTAL, BASIC RESEARCH	305,819	351,969	355,119	381,489
	APPLIED RESEARCH				
5	MATERIALS TECHNOLOGY	18,614	47,989	52,264	64,944
6	SENSORS AND ELECTRONIC SURVIVABILITY	39,826	62,826	44,026	63,326
7	TRACTOR HIP	4,367	4,367	4,367	4,367
8	AVIATION TECHNOLOGY	42,567	46,567	41,567	43,567
9	ELECTRONIC WARFARE TECHNOLOGY	16,411	25,411	26,411	30,211
10	MISSILE TECHNOLOGY	53,038	60,538	59,038	61,338
11	ADVANCED WEAPONS TECHNOLOGY	19,342	21,342	32,342	32,942
12	ADVANCED CONCEPTS AND SIMULATION	16,654	19,654	20,654	23,054
13	COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	53,342	93,842	66,342	94,242
14	BALLISTICS TECHNOLOGY	55,014	64,014	59,814	69,354
15	CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY	2,235	7,735	5,235	9,035
16	JOINT SERVICE SMALL ARMS PROGRAM	7,008	7,008	7,008	7,008
17	WEAPONS AND MUNITIONS TECHNOLOGY	40,469	87,669	75,169	103,389
18	ELECTRONICS AND ELECTRONIC DEVICES	43,391	88,791	78,491	106,191
19	NIGHT VISION TECHNOLOGY	24,391	40,391	26,391	35,191
20	COUNTERMINE SYSTEMS	21,795	21,795	25,795	30,495
21	HUMAN FACTORS ENGINEERING TECHNOLOGY	17,426	44,426	17,426	40,026
22	ENVIRONMENTAL QUALITY TECHNOLOGY	15,809	25,309	17,009	20,209
23	COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY	22,215	38,465	23,715	37,215
24	COMPUTER AND SOFTWARE TECHNOLOGY	5,368	11,368	5,368	9,868
25	MILITARY ENGINEERING TECHNOLOGY	51,120	54,620	56,720	59,200
26	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	16,208	16,208	16,208	16,208

(In thousands of dollars)

		Budget	House	Senate	Conference
27	WARFIGHTER TECHNOLOGY	23,083	33,583	33,583	36,483
28	MEDICAL TECHNOLOGY	76,544	183,334	106,544	185,434
	TOTAL, APPLIED RESEARCH	686,237	1,107,252	901,487	1,183,297
	ADVANCED TECHNOLOGY DEVELOPMENT				
29	WARFIGHTER ADVANCED TECHNOLOGY	47,065	57,495	75,765	86,709
30	MEDICAL ADVANCED TECHNOLOGY	53,274	287,474	134,924	301,584
31	AVIATION ADVANCED TECHNOLOGY	53,890	77,390	93,190	99,530
32	WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	59,389	85,889	62,189	86,529
33	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY	131,436	197,386	193,321	247,216
34	COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHNOLOGY	12,255	14,255	12,255	14,255
35	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	6,783	6,783	6,783	6,783
36	ELECTRONIC WARFARE ADVANCED TECHNOLOGY	49,199	58,449	49,199	57,099
37	TRACTOR HIKE	12,633	12,633	12,633	12,633
38	NEXT GENERATION TRAINING & SIMULATION SYSTEMS	18,723	22,223	21,723	22,523
39	TRACTOR ROSE	6,526	6,526	6,526	6,526
40	IED DEFEAT TECHNOLOGY DEVELOPMENT (0603100A)	---	3,000	---	2,400
41	EXPLOSIVES DEMILITARIZATION TECHNOLOGY	10,349	13,349	19,849	21,649
42	MILITARY HIV RESEARCH	6,998	16,998	6,998	14,998
43	COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT	13,061	13,061	13,061	13,061
45	ELECTRONIC WARFARE TECHNOLOGY	17,419	44,919	23,419	42,219
46	MISSILE AND ROCKET ADVANCED TECHNOLOGY	60,353	72,353	69,353	77,753
47	TRACTOR CAGE	18,448	18,448	18,448	18,448
48	LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY	25,315	27,315	29,315	30,915
49	JOINT SERVICE SMALL ARMS PROGRAM	8,097	9,347	8,097	10,697
50	NIGHT VISION ADVANCED TECHNOLOGY	35,892	44,892	47,892	54,292
51	ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS	14,982	14,982	14,982	14,982
52	MILITARY ENGINEERING ADVANCED TECHNOLOGY	6,837	22,037	15,037	28,537
53	ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECHNOLOGY	67,011	78,511	67,631	74,611
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	735,935	1,205,715	1,002,590	1,345,949

(In thousands of dollars)

		Budget	House	Senate	Conference
	DEMONSTRATION & VALIDATION				
54	UNIQUE ITEM IDENTIFICATION (UID)	668	668	668	668
55	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	14,389	59,389	112,389	128,229
56	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE)	17,421	29,321	39,621	49,601
57	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	176,142	178,142	170,142	171,542
58	JOINT AIR-TO-GROUND MISSILE (JAGM)	53,500	53,500	53,500	53,500
59	LANDMINE WARFARE AND BARRIER - ADV DEV	24,737	24,737	24,737	24,737
60	SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV	19,449	19,449	6,449	9,449
61	TANK AND MEDIUM CALIBER AMMUNITION	44,578	44,578	48,578	47,778
62	ADVANCED TANK ARMAMENT SYSTEM (ATAS)	142,486	144,986	142,486	144,486
63	SOLDIER SUPPORT AND SURVIVABILITY	4,787	4,787	5,787	5,787
65	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	3,454	3,454	3,454	3,454
66	ENVIRONMENTAL QUALITY TECHNOLOGY	6,149	20,799	20,149	18,699
67	WARFIGHTER INFORMATION NETWORK-TACTICAL	222,296	356,296	222,296	322,296
68	NATO RESEARCH AND DEVELOPMENT	4,959	4,959	4,959	4,959
69	AVIATION - ADV DEV	6,481	6,481	6,481	6,481
70	LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV	27,499	27,499	27,499	38,236
71	COMBAT SERVICE SUPPORT CONTROL SYSTEM EVALUATION	19,054	19,054	13,554	15,054
72	MEDICAL SYSTEMS - ADV DEV	12,479	23,479	22,979	29,879
73	SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	18,178	22,478	16,778	20,218
	TOTAL, DEMONSTRATION & VALIDATION	818,706	1,044,056	942,506	1,095,053
	ENGINEERING & MANUFACTURING DEVELOPMENT				
76	AIRCRAFT AVIONICS	57,786	57,786	57,786	57,786
77	ARMED, DEPLOYABLE OH-58D	82,310	129,310	182,310	182,310
78	ELECTRONIC WARFARE DEVELOPMENT	55,716	55,716	58,016	57,556
81	TRACTOR CAGE	17,821	17,821	17,821	17,821
83	INFANTRY SUPPORT WEAPONS	45,229	53,229	57,229	63,429
84	MEDIUM TACTICAL VEHICLES	1,994	4,794	4,494	6,394
85	SMOKE, OBSCURANT AND TARGET DEFEATING SYS-SDD	1,347	1,347	1,347	1,347
86	FAMILY OF HEAVY TACTICAL VEHICLES	1,947	2,947	11,947	12,747

(In thousands of dollars)

		Budget	House	Senate	Conference
87	AIR TRAFFIC CONTROL	8,956	8,956	8,956	8,956
88	LIGHT TACTICAL WHEELED VEHICLES	82,300	55,300	38,800	38,500
90	NON-LIGHT OF SIGHT LAUNCH SYSTEM	253,410	253,410	255,010	254,690
91	NON-LINE OF SIGHT CANNON	137,802	137,802	137,802	137,802
92	FCS MANNED GRD VEHICLES & COMMON GRD VEHICLE	696,333	506,033	696,333	596,033
93	FCS SYSTEMS OF SYSTEMS ENGR & PROGRAM MGMT	1,589,466	1,422,466	1,589,466	1,507,466
94	FCS RECONNAISSANCE (UAV) PLATFORMS	41,164	42,264	41,164	43,664
95	FCS UNMANNED GROUND VEHICLES	90,667	87,567	90,667	90,667
96	FCS UNATTENDED GROUND SENSORS	10,999	10,999	10,999	10,999
97	FCS SUSTAINMENT & TRAINING R&D	678,781	631,781	678,781	651,781
98	MODULAR BRIGADE ENHANCEMENT	64,796	64,796	64,796	64,796
99	NIGHT VISION SYSTEMS - SDD	44,619	44,619	47,619	47,619
100	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	2,501	2,501	2,501	2,501
101	NON-SYSTEM TRAINING DEVICES - SDD	35,992	35,992	35,992	35,992
102	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD	21,513	21,513	21,513	21,513
103	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	31,962	31,962	31,962	31,962
104	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	18,025	18,025	8,025	10,025
105	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD	16,594	18,744	16,594	18,314
106	COMBINED ARMS TACTICAL TRAINER (CATT) CORE	37,035	37,035	37,035	37,035
107	JOINT NETWORK MANAGEMENT SYSTEM	2,786	2,786	2,786	2,786
108	WEAPONS AND MUNITIONS - SDD	55,368	68,368	57,368	65,668
109	LOGISTICS AND ENGINEER EQUIPMENT - SDD	45,009	48,009	45,009	47,409
110	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD	10,047	10,047	10,047	10,047
111	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT	15,823	22,323	22,323	27,923
112	LANDMINE WARFARE/BARRIER - SDD	142,315	146,315	157,958	161,158
114	ARTILLERY MUNITIONS	63,039	65,039	7,089	64,639
115	COMBAT IDENTIFICATION	11,362	11,362	11,362	11,362
116	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE	99,202	99,202	101,302	100,882
117	RADAR DEVELOPMENT	7,067	7,067	7,067	7,067

(In thousands of dollars)

	Budget	House	Senate	Conference
118 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS)	53,559	112,600	112,600	112,600
119 FIREFINDER	77,279	77,279	77,279	77,279
120 SOLDIER SYSTEMS - WARRIOR DEM/VAL	---	2,000	---	1,600
121 ARTILLERY SYSTEMS	24,221	24,221	24,221	24,221
122 PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)	372,146	372,146	372,146	372,146
123 NUCLEAR ARMS CONTROL MONITORING SENSOR NETWORK	7,300	7,300	7,300	7,300
124 INFORMATION TECHNOLOGY DEVELOPMENT	103,485	106,485	104,485	106,785
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	5,217,073	4,937,264	5,325,307	5,210,577
RDT&E MANAGEMENT SUPPORT				
126 THREAT SIMULATOR DEVELOPMENT	21,887	23,887	21,887	23,487
127 TARGET SYSTEMS DEVELOPMENT	13,499	15,999	18,499	17,899
128 MAJOR T&E INVESTMENT	66,921	66,921	66,921	66,921
130 RAND ARROYO CENTER	16,342	18,342	20,342	20,342
131 ARMY KWAJALEIN ATOLL	182,136	182,136	182,136	182,136
132 CONCEPTS EXPERIMENTATION PROGRAM	34,004	38,004	29,466	29,866
133 SMALL BUSINESS INNOVATIVE RESEARCH (0605502A)	---	3,000	---	2,400
134 ARMY TEST RANGES AND FACILITIES	357,964	357,964	357,964	357,964
135 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	74,391	76,391	86,991	86,431
136 SURVIVABILITY/LETHALITY ANALYSIS	40,343	41,843	42,343	41,943
137 DOD HIGH ENERGY LASER TEST FACILITY	2,801	2,801	2,801	8,801
138 AIRCRAFT CERTIFICATION	4,688	4,688	4,688	4,688
139 METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	8,346	8,346	8,346	8,346
141 MATERIEL SYSTEMS ANALYSIS	16,526	16,526	16,526	16,526
142 SUPPORT OF OPERATIONAL TESTING	75,293	77,293	78,293	79,293
143 ARMY EVALUATION CENTER	61,694	61,694	61,694	61,694
144 SIMULATION & MODELING FOR ACQ, RQTS, & TNG (SMART)	5,342	6,342	5,342	6,342
145 PROGRAMWIDE ACTIVITIES	73,718	73,718	73,718	73,718
146 TECHNICAL INFORMATION ACTIVITIES	41,607	41,607	40,607	43,007
147 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	19,606	29,606	38,406	41,206
148 ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	4,958	4,958	4,958	4,958

(In thousands of dollars)

	Budget	House	Senate	Conference
149 MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT)....	14,889	14,889	14,889	14,889
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,136,955	1,166,955	1,176,817	1,192,857
OPERATIONAL SYSTEMS DEVELOPMENT				
151 MLRS PRODUCT IMPROVEMENT PROGRAM.....	54,055	54,055	54,055	54,055
152 WEAPONS CAPABILITY MODIFICATIONS UAV.....	3,900	3,900	3,900	3,900
153 AEROSTAT JOINT PROJECT OFFICE.....	481,251	481,251	481,251	481,251
154 ADV FIELD ARTILLERY TACTICAL DATA SYSTEM.....	16,837	16,837	16,837	16,837
155 COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	27,615	35,115	36,415	41,455
156 MANEUVER CONTROL SYSTEM.....	43,961	45,961	43,961	45,561
157 AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS...	325,643	330,143	324,143	330,643
158 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	476	1,476	476	1,476
159 DIGITIZATION.....	9,737	9,737	9,737	9,737
160 FORCE XXI BATTLE COMMAND, BRIGADE AND BELOW (FBCB2)...	32,446	32,446	32,446	32,446
162 MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	30,219	30,219	30,219	30,219
163 OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS.....	1,897	1,897	1,897	1,897
164 TRACTOR CARD.....	16,573	16,573	16,573	16,573
165 JOINT TACTICAL COMMUNICATIONS PROGRAM (TRI-TAC).....	1,536	1,536	1,536	1,536
166 JOINT TACTICAL GROUND SYSTEM.....	23,462	23,462	23,462	23,462
167 JOINT HIGH SPEED VESSEL (JHSV).....	5,148	5,148	5,148	5,148
169 SECURITY AND INTELLIGENCE ACTIVITIES.....	---	5,500	---	4,600
170 INFORMATION SYSTEMS SECURITY PROGRAM.....	28,332	32,282	28,332	31,682
171 GLOBAL COMBAT SUPPORT SYSTEM.....	129,689	94,689	59,689	94,689
172 SATCOM GROUND ENVIRONMENT (SPACE).....	107,849	107,849	107,849	107,849
173 WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM.....	24,836	24,836	24,836	24,836
174 JOINT COMMAND AND CONTROL PROGRAM (JC2).....	10,415	10,415	10,415	10,415
175 TACTICAL UNMANNED AERIAL VEHICLES.....	97,947	97,947	97,947	101,947
177 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	---	6,000	7,000	9,100

(In thousands of dollars)

	Budget	House	Senate	Conference
178 AVIONICS COMPONENT IMPROVEMENT PROGRAM.....	1,024	1,024	1,024	1,024
179 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	66,869	78,869	84,869	87,869
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,541,717	1,549,167	1,504,017	1,570,207
999 CLASSIFIED PROGRAMS.....	147,162	147,162	147,162	147,162
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.....	10,589,604	11,509,540	11,355,005	12,126,591

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
1	**IN-HOUSE LABORATORY INDEPENDENT RESEARCH**	**19,266**	**19,266**	**22,266**	**21,666**
	Silicon Carbide Armor Manufacturing Initiative			3,000	2,400
2	**DEFENSE RESEARCH SCIENCES**	**137,676**	**161,176**	**147,176**	**166,076**
	Perpetually Available and Secure Information Systems (PASIS)		5,000		4,000
	Functionally Integrated Reactive Surface Technologies (FIRST) Program		3,000		2,400
	UT-Tyler Organic Semiconductor Modeling and Simulation		1,000	1,000	1,000
	John H. Hopps, Jr. Defense Research Scholars Program		2,000		2,000
	Innovative, Computational Water-borne Pathogen Research for Chemical/Biological Detection		1,000		1,000
	Direct Methanol Fuel Cell – Battery Recharger Program		2,000		1,600
	Combat Mental Health Initiative		3,500		2,800
	Technology Commercialization and Management Network		2,000		1,600
	Cyber Threat Analytics		3,000		2,400
	Activated Nanostructures for De-icing		1,000	1,500	1,200
	Document Exploitation for Handwriting Recognition			1,000	1,000
	Flexible Electronics Research Initiative			1,000	1,000
	Global Military Operating Environments			2,000	1,600
	Integrated nanosensors for NBC threat detection			2,000	1,600
	Semiconductor-based Nanotechnology Applications			1,000	800
	Secure Open Systems Institute (Transfer from RDTE,D-W line 11)				2,400
3	**UNIVERSITY RESEARCH INITIATIVES**	**64,843**	**74,743**	**80,843**	**82,943**
	University and Industry Research Centers, Automotive Research Center (Transfer to line 4)		2,000		0
	Laboratory for Engineered Human Protection (LEHP)		2,000		1,600
	Massively Broadband Wireless Integrated Circuits		1,500		1,200
	Consortium for Bone and Tissue Repair and Regeneration		1,000		1,000
	Nanomedical Technologies Research		2,500	2,000	2,000
	Imaging Research Center		900		900
	Burn and Shock Trauma Institute			2,000	1,600
	Hi-tech Eyes for the Battlefield			1,000	1,000
	Low Temperature Vehicle Performance Research			1,000	800
	University Research Initiatives			10,000	8,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
4	**UNIVERSITY AND INDUSTRY RESEARCH CENTERS**	**84,034**	**96,784**	**104,834**	**110,804**
	NAC University Automotive Research Coalitions		2,000		1,600
	Florida Collaborative Development of Advanced Materials for Strategic Applications		950		950
	Transparent Nanocomposite Armor		300	300	300
	Development of Enabling Chemical Technologies for Power from Green Sources		2,000		1,600
	Center of Excellence in Industrial Metrology & 3D Imaging Research		2,000		1,600
	Research Support for Nanoscale Sciences and Technologies		1,000		1,000
	Nanotubes Optimized for Lightweight Exceptional Strength Composite Materials		3,500	2,000	2,800
	Manufacturing and Industrial Technology Center		1,000		1,000
	H54 program adjustment			-1,400	-1,400
	Center for Information Assurance			1,000	800
	Detecting and Eradicating Corrosion in Army Vehicles			1,500	1,200
	Electron Microprobe Research			1,500	1,500
	Infotonics Research			3,000	2,400
	Integrated Systems in Sensing, Imaging and Communications			1,000	800
	MEMS Antenna for wireless comms/UAVs			3,000	2,400
	Modeling and Analysis of the Response of Structures			1,000	1,000
	Nanoscale Biosensor Research			2,500	2,500
	National Network Security test bed			2,000	1,600
	University-based Automotive Research (Includes transfer from line 3)			2,000	2,000
	Visualization for Training and Simulation in urban terrains			1,400	1,120

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
5	**MATERIALS TECHNOLOGY**	**18,614**	**47,989**	**52,264**	**64,944**
	Ultra Lightweight Metallic Armor		1,000	2,000	1,600
	Enhanced Holographic Imaging Program		2,000		1,600
	Control System for Laser Powder Deposition		350	400	400
	Improvised Explosive Device Simulation in Different Soils		425	400	400
	Next Generation Lightweight Drive System for Army Weapon Systems		2,000	2,000	2,000
	Novel Extremity Body Armor		600		480
	Advanced Materials Development and Manufacturing of Body Armor		2,500		2,000
	Nickel Boron Coating Technology for Army Weapons		3,000		2,400
	Lightweight Motors for the Future Combat System		2,000		1,600
	Project Kryptolite		1,500		1,200
	Advanced Lightweight Transparent Armor for Tactical Wheeled Vehicles and Force Protection		1,000		800
	Future Affordable Multi-Utility Materials for the Army Future Combat Systems		5,000	8,000	6,400
	Cold Spray Wear Coating for FCS		1,000		1,000
	Polymer Center of Excellence for Blast-Ballistic Protective Armor		2,500		2,000
	Cutting Tools for Aerospace Materials		1,500		1,200
	Ultra-Endurance Coating		3,000		2,400
	3D Woven Ballistic Materials for Future Combat Systems			2,000	2,000
	Advanced Ceramic Surface Engineering for helicopter compressor blades			3,000	2,400
	Complex-shaped armor for soldier torso and extremity protection			2,000	2,000
	Multi-scale modeling of impact resistant materials for body armor			1,500	1,500
	Nanomanufacturing of multifunctional sensors			2,000	1,600
	Nanotechnologies Initiative			5,000	4,000
	Protection against Improvised Explosive Devices			4,000	4,000
	Titanium Fabrication for Military/Industrial equipment			1,350	1,350

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
6	**SENSORS AND ELECTRONIC SURVIVABILITY**	**39,826**	**62,826**	**44,026**	**63,326**
	High Brightness Diode-pumped Fiber Laser (HiBriD-FL)		2,000		1,600
	Electromagnetic Geolocation		1,000		1,000
	Urban Warfare Analysis Center (UWAC)		2,500		2,000
	Urban Warfare Knowledge Base		1,000		1,000
	Single Crystal Chemical Vapor Deposition Diamond Thermal Management Elements for high-energy lasers		1,000		1,000
	Terahertz Spectrometer Technology		2,000		1,600
	Network Enabled Combat Identification (CID)		3,000		2,400
	Wearable Video Capture System		1,000		800
	Land and Sea Special Operations (LASSO)		1,000		1,000
	One-Step JP-8 Bio Diesel Fuel		5,000		4,500
	Advanced Detection of Explosives Program		1,000		1,000
	Advanced Bonded Diamond for optical applications		2,500		2,000
	H16 unjustified growth			-1,800	-1,800
	SA2 program adjustment			-1,000	-1,000
	Center for Advanced Microelectronics Manufacturing (CAMM) (Includes transfer from RDTE,D-W line 47)			2,000	2,000
	Integrated Multi-Target Remote-Sensing Technology and Its Applications			2,000	2,000
	Nanophotonic devices			2,000	1,600
	S31 Technology			1,000	800
8	**AVIATION TECHNOLOGY**	**42,567**	**46,567**	**41,567**	**43,567**
	Aircraft Structural Condition Monitoring (ASCM) for Diagnostics and Prognostics		3,000		2,400
	Composite Small Main Rotor Blades		1,000	2,000	1,600
	Program adjustment			-3,000	-3,000
9	**ELECTRONIC WARFARE TECHNOLOGY**	**16,411**	**25,411**	**26,411**	**30,211**
	Silver Fox and Manta UAS		3,000	4,000	3,200
	Electromagnetic Gun Initiative		2,000		2,000
	Integrated Information Technology Policy Analyses Research		2,000		1,600
	Battlefield Connectivity, Multi-Level Secure Networks		2,000		1,600
	Dominant Military operations on urbanized Terrain			3,000	2,400
	Knowledge Integration and Management			3,000	3,000
10	**MISSILE TECHNOLOGY**	**53,038**	**60,538**	**59,038**	**61,338**
	Materials Application Research Center		1,000		1,000
	LENS XX Hypervelocity Ground Testing		1,000		800
	Mariah II Hypersonic Wind Tunnel Development		3,500	5,000	4,000
	Jam Resistent Technology for INS/GPS Precision		2,000		1,500
	Novel Lightweight Armor Material for Insensitive Munitions Protection of Tactical Missiles			1,000	1,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
11	**ADVANCED WEAPONS TECHNOLOGY**	**19,342**	**21,342**	**32,342**	**32,942**
	Remote Video Weapon Sight, USSOCOM Phase III		1,000		1,000
	Missile Aero-propulsion Computer System (MACS) Modernization		1,000	6,000	6,000
	Army Missile and Space Technology Initiative			5,000	5,000
	Unmanned Systems Technology Development			2,000	1,600
12	**ADVANCED CONCEPTS AND SIMULATION**	**16,654**	**19,654**	**20,654**	**23,054**
	Development and Simulation for Advanced Troop Protection Concepts in Urban Warfare		1,000		800
	Mobile Medic Training Program		2,000		1,600
	Boston University Photonic Center			4,000	4,000
13	**COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY**	**53,342**	**93,842**	**66,342**	**94,242**
	Development of Logistical Fuel Processors to Meet Army/TARDEC/TACOM Needs		3,500		2,800
	Tactical Metal Fabrication System (TacFab)		3,000		2,400
	Light Utility Vehicle		1,000		1,000
	Institute for Advanced Materials and Manufacturing Strategies (IAMMS)		3,000		2,400
	Quick Reaction Advanced Tactical Vehicle Technology		3,000		2,800
	Globally Accessible Manufacturing and Maintenance Activity (GAMMA)		3,000		2,400
	DoD Hydrogen PEM Fuel Cell Medium/Heavy Duty Vehicle Demonstration Program		4,000	3,000	3,200
	Extreme-Condition Vehicle Tribology for Military Vehicle Technology at Northwestern University		1,000		1,000
	Secure Mobile MANET System		1,500		1,200
	Digital Engine/Hydraulic Valve Actuation Technology		1,000		800
	Advanced Digital Hydraulic Hybrid Drive System (Includes transfer from line 33)		2,500		2,000
	Center for Advanced Vehicle Design and Simulations (Includes transfer from line 33 for Vehicle Design Optimization Tools)		2,000	1,000	1,600
	Hydraulic Hybrids, Advanced Materials, and Multi-fuel Engine Research (HAMMER) program		5,000		4,000
	Spring-Suspended Airless Tires for Convoy Protection		5,000		4,500
	Rapid Up-Armor Synthesis and Crashworthiness Design for Improved Soldier Survivability		2,000		1,600
	Advanced Manufacture of Lightweight Materials and Components			2,000	1,600
	Automotive Research Equipment Purchase			2,000	1,600
	Military Fuels Research Program			2,000	1,600
	Nano-Engineered Multi-Functional Transparent Armor			1,000	800
	SkyPure - Water from Air			2,000	1,600

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
14	**BALLISTICS TECHNOLOGY**	**55,014**	**64,014**	**59,814**	**69,354**
	Small Unmanned Aerial Vehicles (UAVs) and Sensors		500	500	500
	Multi Mission Armored Watercraft (MMAW) Project		1,500		1,200
	Advanced Composite Materials Research for Air and Ground Vehicles		2,000		1,600
	Advanced Composite Armor for Force Protection				3,000
	Beneficial Infrastructure for Rotorcraft Risk Reduction Demonstrations (BIRRRD)		1,000		800
	Super High Accuracy Range Kit - 105mm Artillery Technology		4,000		3,200
	Flexible Solar Cell for Man-Portable Power Generator			2,300	1,840
	Laser-based Explosives & Chem/bio Standoff and Point Detector			4,000	3,200
	Program adjustment			-2,000	-1,000
15	**CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY**	**2,235**	**7,735**	**5,235**	**9,035**
	Paint Shield for Protecting People from Microbial Threats		2,000		1,600
	Systems Biology Biomarker Molecular Toxicology Initiative		2,000		1,600
	Rapid and Accurate Pathogen Identification/Detection (RAPID) Program		1,500		1,200
	Enhanced Vapor Aeration Capabilities (EVAC)			3,000	2,400
17	**WEAPONS AND MUNITIONS TECHNOLOGY**	**40,469**	**87,669**	**75,169**	**103,389**
	CZT-Based Liquid Explosives Detection Systems		1,700		1,360
	SLEUTH Tungsten Heavy Alloy Penetrator and Warhead Development		2,000		1,600
	Effects Based Operations Decision Support Services (EBODSS)		1,000		800
	Renewable Energy Testing Center		2,500		2,000
	Long Range Initiator		2,000		1,400
	Hospital Emergency Planning and Integration (HEPI) Letterkenny Army Depot and Chambersburg Hospital		2,000		1,600
	Advanced Materials & Process for Armament Structures (AMPAS)		7,000		5,600
	Remotely Operated Weapons and Sensor Technology		4,000		3,200
	Energetic Formulation and Fabrication		5,000		4,000
	Developmental Mission Integration		5,000		4,000
	Mitigation of Energetics Single Point Failures		3,000		2,400
	Strategic Technololgy Development and Integration for the Joint Munitions and Lethality Life Cycle Management Command		1,000		1,000
	Green Armaments/RangeSafe		2,000	3,000	2,400
	Armament System Engineering and Integration Initiative (ASEI2)		3,000		2,400
	Advanced Rarefaction Weapon Engineered System		2,000		1,600
	Rapid Response Force Protection System (Remote Weapons Platform)		4,000		3,200

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
	MEFP termination			-5,000	-3,000
	Army Center of Excellence in Acoustics			4,100	3,280
	Center for Borane Technology			2,000	2,000
	Development and Demonstration of Multi-use/Urban Operations Joint Training System at Fort Dix			3,000	2,400
	Electroconversion of Energetic Materials			6,000	5,800
	Electrolytic Super-Capacitor			3,000	2,400
	Engineered Surfaces for Weapons Life Extension			3,000	3,000
	Exploding Foils Initiators with Nanomaterial-based			3,000	2,400
	Fatigue Odometer for Vehicle Components and Gun Barrels Project Cannon Systems			3,300	2,640
	Lightweight Munitions and Surveillance for Unmanned Air and Ground Vehicles (Transfer to line 32)			5,000	0
	Research for Army Cannon Systems			2,300	1,840
	Ripsaw Unmanned Ground Vehicle Weaponization			2,000	1,600
18	**ELECTRONICS AND ELECTRONIC DEVICES**	**43,391**	**88,791**	**78,491**	**106,191**
	Non-Flammable, High Energy Density, Low temperature Warrior Battery		1,000		800
	ONAMI Miniature Tactical Energy Systems Development		3,000	2,500	2,500
	Advanced Portable Power Institute (APPI)		2,000		1,600
	Miniature Cooling Unit for Electronic Devices		1,000		1,000
	Revolutionary Self-Sealing Plastic Enclosure for Military Batteries		2,000		1,600
	Defense Modernization and Sustainment Initiative, Rochester Institute of Technology (Includes transfer from RDTE,N line 18)		2,000		2,000
	Roll-to-Roll Microelectronics Manufacturing in Support of the Flexible Display Initiative		2,000		1,600
	Low Signature Portable Fuel Cell Power Systems		3,000		2,800
	Mega-Capacity Hybrid Chemistry Lithium Primary Portable Batteries		1,000	2,000	1,600
	Manufacturing Technology Development of Advanced Components for High Power Solid-State Lasers		2,000		1,600
	Micromachined Switches in Support of Transformational Communications Architecture		2,000		1,600
	Lithium Air Metal Battery		2,000		4,000
	Soldier Portable Solid Fuel Hydrogen Generator Cartridge		3,000	5,000	4,000
	Silicon Carbide MOSFETs for Electric Power Systems (Includes transfer from RDTE,N line 10)		2,000		1,600
	High-Frequency, High-Power Electronic and Optoelectronic Devices on Aluminum Nitride (AlN)		2,000	3,000	2,400
	Novel Zinc Air Power Sources for Military Applications		2,500		2,000
	Ceramic Membrane - 10(X) More Energy for Battery Systems		1,000		1,000
	Advanced Lithium-Carbon Monoflouride Combat Portable Batteries		4,900		3,920
	Advanced Wearable Microcell Power System Process Development		2,500		2,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
	Bio-Battery		1,500		1,200
	Soldier Fuel Cell System		1,000		800
	Blast Risk Analysis and Mitigation Application (BRAMA)		2,000		1,600
	Advanced, Integrated Portable Power Generation and Charging System			3,100	2,480
	Cogeneration for Enhanced Cooling and Heating of Advanced Tactical Vehicles			3,000	2,400
	Enzyme Biofuel Cell (SEBC)			1,000	1,000
	Improved Energy Density Battery			1,000	800
	Large Format Li-Ion Battery			1,000	800
	PEM Fuel Cell Tactical Generators			5,000	5,000
	Portable Hydrogen Generator and Hybrid Power Source			2,000	1,600
	Renewable Energy for Military Applications			1,500	1,500
	Self-powered, lightweight, flexible display unit on a plastic substrate			2,000	1,600
	Thin Lithium-Iron Disulfide Primary Batteries			3,000	2,400
19	**NIGHT VISION TECHNOLOGY**	**24,391**	**40,391**	**26,391**	**35,191**
	Next Generation Communications System		1,000		1,000
	Standoff Improvised Explosive Device Detection Program (SIEDP) (Transfer to line 20)		3,000		0
	Enhanced Micro-Image Display Technology		2,000		1,600
	Power Efficient Microdisplay Development for US Army Night Vision		3,000		2,400
	Personal Miniature Thermal Viewer (PMTV)		1,000		800
	Hyperspectral Sensor for UAV Surveillance/Targeting		2,000		1,600
	Miniaturized Sensors for Small and Tactical Unmanned Aerial Vehicles (MINISENS)		1,000		1,000
	Robotics Workforce and Military Curriculum		1,000		800
	Next Generation FPA Development (Transfer to line 50)		2,000		0
	Small Business Infrared Materials Manufacturing - Silicon Alternatives			2,000	1,600
20	**COUNTERMINE SYSTEMS**	**21,795**	**21,795**	**25,795**	**30,495**
	Standoff Improvised Explosive Device Protection Program (Includes transfer from line 19)			4,000	3,200
	Hawaii Undersea Military Munitions Assessment (Transfer from Hawaii Undersea Chemical Weapons Assessment Program in lines 22 and 66)				5,500

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
21	**HUMAN FACTORS ENGINEERING TECHNOLOGY**	**17,426**	**44,426**	**17,426**	**40,026**
	High Optempo Performance Soldier Training		2,000		1,600
	LWI Training-Based Collaborative Research		25,000		21,000
22	**ENVIRONMENTAL QUALITY TECHNOLOGY**	**15,809**	**25,309**	**17,009**	**20,209**
	Hawaii Undersea Chemical Weapons Assessment Program (Transfer to line 20)		5,500		0
	Biowaste to Bioenergy: Phase Two		2,000		1,600
	Vanadium Technology Program		2,000		1,600
	Propelling Agent for Slurry Gel			1,200	1,200
23	**COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY**	**22,215**	**38,465**	**23,715**	**37,215**
	Integrated Lightweight Electronics Shelter		1,750		1,400
	Dynamically Managed Data Dissemination		1,000		1,000
	Advanced 3-D Locator (A3DL) Technology		4,000		3,200
	C4ISR Integrated Digital Environment Service Model (IDESM)		2,000		2,000
	Development of a High Performance Computing System Based on a Modern High Speed Switch Fabric		1,000		1,000
	Research of Advanced Communications Technologies for enhanced secure, mobile, networked communications		1,000		800
	Lightweight Theater Transportable TOC		3,000		2,400
	Intelligent Distributed Command & Control (IDC2)		2,500		2,000
	Portable Flexible Communication Display Devices			1,500	1,200
24	**COMPUTER AND SOFTWARE TECHNOLOGY**	**5,368**	**11,368**	**5,368**	**9,868**
	Biologically Inspired Security Infrastructure for Tactical Environments (Transfer to line 25)		1,000		0
	Ruggedized Cylinders for Expandable Mobile Shelters		5,000		4,500
25	**MILITARY ENGINEERING TECHNOLOGY**	**51,120**	**54,620**	**56,720**	**59,200**
	C-RAM Armor Development		1,500		1,200
	Nano-Crystalline Cement for High Strength, Rapid Curing Concrete with Improved Blast Resistance		2,000		1,600
	Airborne Threats			1,600	1,280
	Biologically Inspired Security Infrastructure for Tactical Environments (Includes transfer from line 24)			2,000	2,000
	Geosciences/Atmospheric Research (Includes transfer from line 27)			2,000	2,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
27	**WARFIGHTER TECHNOLOGY**	**23,083**	**33,583**	**33,583**	**36,483**
	Chemical And Biological-Protective Hangars (CAB-PH)		2,000		1,600
	Modular Ballistic System for Force Protection		4,000	5,000	4,000
	Nano-enabled Ultra High Storage Density Non-volatile Memory for Next Generation Commander's Digital Assistant				1,000
	Active and Smart Packaging for Combat Feeding		1,000		1,000
	Advanced Fabric Treatment for Flame Resistant Uniforms		1,000		1,000
	Injection Molded Ceramic Body Armor		500		400
	Center for Geosciences/Atmospheric Research (CG/AR) (Transfer to line 25)		2,000		0
	Biosecurity Research for Soldier Food Safety			2,500	2,000
	Carbon Nanotube Armor Protection System			2,000	1,600
	Protective Textile Fabric			1,000	800
28	**MEDICAL TECHNOLOGY**	**76,544**	**183,334**	**106,544**	**185,434**
	Advanced Bio-engineering for Enhancement of Soldier Survivability		2,000	1,500	1,600
	Armed Services Gynecological Cancer Health Program		2,000		1,600
	BioFoam Protein Hydrogel for Battlefield Trauma		2,500	2,000	2,000
	Bone Health and Military Medical Readiness Program		1,000		800
	Cancer Prevention through Remote Biological Sensing		2,000		1,600
	Cedars-Sinai Core Imaging Center		3,000		2,400
	Center for Advanced Surgical and Interventional Technology (CASIT)		1,000		1,000
	Center for Vaccine Scale-Up Process Research (Phase I)		1,000		800
	Center for Injury Biomechanics		4,000	2,000	3,200
	Center for Ophthalmic Innovation		2,000		2,000
	Center for Research on Integrative Medicine for the Military (CRIMM)		1,000		1,000
	Center for Resuscitation Research		3,000		3,000
	Cold Spring Harbor Laboratory Women's Cancer Genomics Center		4,000		3,200
	Cone Beam CT Scanners		4,000		3,200
	Copper Air Quality Program		2,000		1,600
	Defense Against Viral Infection (DAVI)		2,000		1,600
	Disposable Unit Dose Drug Pumps for Anethesia and Antibiotics		2500		2,000
	Electronic Technology Infrastructure in Support of Military Missions		2,000		1,600
	Epigenetic Disease Research		2,000		1,600
	Fibrin Adhesive Stat (FAST) Dressing		2,000	2,000	2,000
	Impact of Intensive Lifestyle Modification on Chronic Medical Conditions		2,500		2,000
	Improving Musculoskeletal Health & Function		1,500		1,200
	Injury Research Center-Ryder Trauma Center		3,500		2,800
	Integrated Medicine, Communications, Compassion, Chronic Care Program		2,000		1,600

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1	Budget Request	House	Senate	Conference
Mass Decontamination and Biosecurity Initiative		350		350
Medical Image Database Holographic Archiving Library System (MIDHALS)		1,000		1,000
Medical Resources Conservation Technology Pilot Energy Cost Control Evaluation (PECCE)		1,500		1,200
Military Interoperable Digital Hospital Testbed		5,000		4,000
Molecular Switch Vaccines for Biodefense and Cancer		2,000		1,600
Nanofabricated Bioartifical Kidney and Bioterrorism		1,000		1,000
Neuroscience Research Consortium to Study Spinal Cord Injury		1,000		800
Neutron/Hadron Particle Therapy		2,000		1,600
Orthopedic Implant Design and Manufacturing for Traumatic Injuries		2,000		1,600
Oxygen Diffusion Dressings for the Accelerated Healing of Battlefield Wounds and Burns		500		500
Pain and Neuroscience Center Research Center		7,000		5,600
Plant-based Vaccine Research		2,500		2,000
Prevention of Radiation Injury by use of Statins		2,000		1,600
Proton Therapy		3,000		2,400
Rapid Vaccine Discovery Technology		2,500		2,000
Rapid Wound Healing Technology Development Project		1,500		1,200
Rare Blood Program		1,000		0
Regional NMR Facility		1,000		1,000
Remote Robotic Teleproctoring to Promote Rapid Surgical Skills Acquisition		1,000		1,000
Respiratory Biodefense Initiative		1,000	2,000	1,600
Storage Area Network		1,000		1,000
Synchrotron-Based Scanning Research		5,000		5,000
Synthetic Malaria Vaccine		3,000		2,400
Technological Regional Center of Excellence for PTSD		2,000		1,600
West Nile Virus Vaccine		940		940
Wound Infection Treatment Program		1,500		1,200
Carbon Nanotube Production			1,000	1,000
Complementary and Alternative Medicine Research (MIL-CAM)			5,000	5,000
MRI-DTI Technology to Improve Diagnosis and Treatment of TBI			2,500	2,500
New Vaccines to Fight Respiratory Infection			4,000	4,000
Orthopaedic Extremity Trauma Research Program			6,000	4,800
Staph Vaccine			2,000	2,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1	Budget Request	House	Senate	Conference
29 WARFIGHTER ADVANCED TECHNOLOGY	**47,065**	**57,495**	**75,765**	**86,709**
High Pressure Airbeam Shelter Cost Reduction Technology Improvements		1,800		1,440
Flame & Thermal Protection for Individual Soldiers		2,000		1,600
Remote Environmental Monitoring and Diagnostics in the Perishables Supply Chain		5,630		4,504
Extended Shelf Life Produce for Remotely Deployed Forces		1,000		800
Multifunctional Protective Packaging Technology (Transfer from line 30)				3,000
Ration Packaging Materials and Systems for Meals Ready-to-Eat (Transfer from line 30)				4,600
J50 program adjustment			-4,300	-3,300
Alternative Energy Research			20,000	16,000
BioSensor Communicator and Controller System			3,000	3,000
ChemBio Integrated Material for Tent Structures			2,000	1,600
Deployment of Affordable Guided Airdrop System			2,000	1,600
High-Pressure/Microwave MRE Processing			2,000	1,600
Joint Precision Airdrop System (JPADS) Program for Payloads up to 30K lbs			4,000	3,200
30 MEDICAL ADVANCED TECHNOLOGY	**53,274**	**287,474**	**134,924**	**301,584**
Acellular Matrix Constructs for Military Casualties		2,500		2,000
Advanced Diagnostic and Therapeutic Digital Technologies		2,000		1,600
Advanced Non-Invasive Glucose Monitoring		1,000		800
Advanced Proteomics Program		1,500		1,200
Advanced Regenerative Medicine (ARM) Skin Cell Therapies, Limb and Digit Treatment		2,000	1,500	1,900
Advanced Regenerative Medicine Development		2,500		2,000
Advanced Restoration Therapies in Spinal Cord Injuries		1,000		1,000
Alliance for NanoHealth		4,000		4,000
ALS Therapy Development for Gulf War Illness Research		1,500		1,200
Angiogenesis and Tissue Engineering Research		1,500		1,200
Assistive Technology Research Center at the National Rehabilitation Hospital		3,000		2,400
National Oncogenomics and Molecular Imaging Center		3,000		3,000
Battlefield Exercise and Combat Related Spinal Cord Injury Research		3,000		3,000
Bioceramic Bones for Battlefield Trauma (Includes transfer from RDTE, D-W line 17)		1,500		1,600
Blood Safety and Decontamination Technology		2,500		2,000
Cartledge Infuser		1,000		1,000
Cellular Therapy for Battlefield Medical Care		1,000		800
Center for Genetic Origins of Cancer		3,000		2,400
Center for Integration of Medicine and Innovative Technology (CIMIT)		10,000	5,000	8,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1	Budget Request	House	Senate	Conference
Christian Sarkine Autism Treatment Center		2,500		2,000
COG/USOC Pediatric Cancer Center		2,000		1,600
Combat Wound Initiative at Walter Reed Army Medical Center				2,000
Composite Tissue Allotransplantation Research and Clinical Program		2,000		2,000
Cooperative International Neuromuscular Research Group (CINRG)		6,500		5,200
Dangerous Pathogens DNA Forensics Center		2,500		2,000
Electronic Medical Records Technology Infrastructure		1,500		1,200
Feeding Tube for Trauma and Burn Patients		1,000		500
Health Science Center Rapid Bio-Pathogen Detection Technology		2,000		4,000
Human Genomics, Molecular Epidemiology and Clinical Diagnostics for Infectious Diseases		1,500		1,200
Immersive Medical Environment for Distributed Intuitive Consultation (iMedic)		2,000		1,500
Indiana-Ohio Traumatic Amputation Rehabilitation Research		1,000		1,000
Integrated Functional Materials Initiative		1,000		1,000
Joint Medical Simulation Technology Research & Development Center		1,600		1,280
Maine Institute for Human Genetics				500
Medical Information Network Decision Support (MINDS) Tool Development		1,000		1,000
Medical Surveillance Initiative-Clinical Looking Glass		1,000		800
Military Biomaterials Institute for Acute and Regenerative Care		1,000		800
Military Low Vision Research		2,000		1,600
Military Molecular Medicine Initiative		15,000		12,000
Mobile Integrated Diagnostic and Data Analysis System (MIDDAS)		1,000		800
Multifunctional Protective Packaging Technology (Transfer to line 29)		3,000		0
National Bioterrorism Civilian Medical Response Center (CIMERC)		2,500		2,000
National Center of Ophthalmology Training and Education at Wills Eye Health System		2,500		2,000
National Functional Genomics Center		7,500		6,000
National Warfighter Health Sustainment Study		1,000		800
Neural Control of External Devices		1,000		1,000
Neurofibromatosis (NF) Research		10,000		8,000
Neuroimaging & Neuropsychiatric Trauma in US Warfighters		5,000	3,000	4,000
Neurotoxin Exposure Treatment Research Program		25,000		20,000
Norfolk State University Center for Systems and Modeling & Simulation		3,100		2,480
Nursing Clinical Simulation Lab		1,000		1,000
Obesity and Cancer in the Military Medical Research Program at WRAMC		2,000		1,600
PBRC Four Tasks to Address Personnel Readiness and Warfighter Performance		2,500		2,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1	Budget Request	House	Senate	Conference
Pediatric Brain Tumor & Neurological Disease Institute		2,000		1,600
Peoria Robotics		1,000		1,000
Personalized Orthopedic Implants for Combat Trauma Induced Orthopedic Surgery		500		500
Portable Burn Debridement Laser Demonstration		3,000		2,400
Portable Digital X-Ray		4,000		3,200
Host Pathogen Interaction Study		1,000		1,000
Prader-Willi Syndrome (PWS) Research		1,500		1,500
Proton Beam Therapy		10,000		8,000
Ration Packaging Materials and Systems for Meals Ready-to-Eat (Transfer to line 29)		5,000		0
Remote Bio-Medical Detector		1,000		1,000
Gulf War Illness Peer Reviewed Research		7,500	15,000	10,000
Rural Health - CERMUSA		2,000		1,600
Severe Battlefield Injury Treatment (Note: Technology to Prevent Compartment Syndrome)		2,000		1,600
Spinal Muscular Atrophy (SMA) Research Program		4,000		3,200
Technologies for Metabolic Monitoring (TMM)		2,000		1,600
Telehealth Access and Infrastructure Expansion		2,000		1,600
Telepharmacy Robotic Medicine Device Unit		2,000		1,600
The Institute for the Advancement of Bloodless Medicine		2,000		1,600
Three Dimensional Projection Environment for Molecular Design and Surgical Simulation		1,000		1,000
Tracking of Health of Soldiers with Advanced Implantable Nanosensors		2,000		1,600
National Eye Evaluation and Research Network - Clinical Trial of Orphan Retinal Degenerative Disease		3,000		2,400
Ultra High-Speed MEMS Electromagnetic Cell Sorter		3,000		2,400
Ultra-High Resolution Display for Army Medicine		4,500		3,600
UMDNJ Cancer Initiative (Note: includes continuation of the Gallo Prostate Cancer Center)		3,000		2,400
Targeted Radiation Therapy for Cancer Initiative				1,000
University of Kentucky Robotic Surgery Research				2,000
University of Kentucky Tissue Repair Research				1,000
Warfighter Cancer Care Engineering		1,500		1,200
Wireless Electronic Patient Records, WPIC-Personal Information Center		2,000	2,000	2,000
Advanced Lower Limb Prosthesis for Battlefield Amputees			3,000	3,000
Advanced Medical Training Platform: Madigan Army Medical Center			500	400
Advanced Surface Technologies for Prosthetic Development			2,000	1,600
Battlefield Tracheal Intubation for Wounded Soldiers			2,000	1,600
BEAR (Battlefield Extraction-Assist Robot)			2,000	1,600
Brain, Biology, and Machine Applied Research			2,000	2,000
Burns Outcomes Infrastructure Project - only for dual military/civilian application			3,000	2,400

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
	Control of Inflammation and Tissue Repair (CITR)			2,000	1,600
	Hibernation Genomics			2,000	1,600
	Institute for Regenerative Medicine			3,000	2,400
	Integrated Patient Quality Program			2,000	1,600
	Limb Tissue Regeneration after Battlefield Injuries using Bone Marrow Stem Cells			4,000	4,000
	Medical Modeling and Simulation Through Synthetic Digital Genes			2,000	1,600
	National Biodefense Training			1,750	1,750
	Post-IED Craniofacial Injury Reconstruction			2,000	1,600
	National Functional Genomics Study			3,000	2,400
	Robotic Telesurgery in Combat Environments			3,500	3,500
	Rugged Electronic Textile Vital Signs Monitoring			2,000	1,600
	Surgical Wound Disinfection and Biological Agents			2,000	1,600
	Trauma Care, Research and Training			2,000	2,000
	US Approved Drugs for Malaria and Leishmaniasis in US Military and Civilian Personnel			3,400	3,400
	Walter Reed Preventive Medicine Pilot Program			6,000	5,500
31	**AVIATION ADVANCED TECHNOLOGY**	**53,890**	**77,390**	**93,190**	**99,530**
	Drive System Composite Structural Component Risk Reduction Program		3,000		2,400
	Fuel Cells for Mobile Robotic Systems Project		1,000	3,000	2,400
	Universal Control Full Authority Digital Engine Control		3,000	3,000	3,000
	UAV-Resupply BURRO		2,000	2,000	2,000
	Night Vision Goggle Compatible Electrostatically Conductive Windscreen Laminates for use on Acrylic/polycarbonate windscreens on helicopters		1,500		1,200
	Power Dense Transmissions		1,000		800
	Inter Turbine Burner for Turbo Shaft Engines		5,000		4,000
	Technologies for Military Equipment Replenishment		4,000	4,000	4,000
	Autonomous Cargo Acquisition for Rotorcraft Unmanned Aerial Vehicles		3,000		2,400
	Alternate Payload Bomb Live Unit Munition			2,800	2,240
	Enhanced Rapid Tactical Integration and Fielding of Systems			2,000	1,600
	Excalibur			3,000	2,400
	Helmet Mounted Display/Visor Projection for Army Helicopters			2,000	1,600
	Improved VAROC/UAV compression system development			3,000	2,400
	Joint Technical Data Integration - Wide Intelligraf Content Enhancements			4,000	4,000
	Parts-on-Demand for CONUS Operations			4,500	3,600
	Quick-MEDS Automated Release Pod			2,000	1,600
	Vectored Thrust Ducted Propeller (VTDP) Compound Helicopter Advanced Technology Demonstration			4,000	4,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
32	**WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY**	**59,389**	**85,889**	**62,189**	**86,529**
	Micro Electrical Mechanical Systems (MEMS) Application for Armor and Munitions		2,500		2,500
	Lightweight Munitions and Surveillance System (LMSS) for Unmanned Air & Ground Vehicles (Includes transfer from line 17)		2,000		4,000
	Reactive Nanocomposite Materials		1,000		1,000
	Production of Affordable New Shaped MER Titanium		4,000		0
	Advanced Tungsten Penetrators and Ballistic Materials		2,000		1,600
	Nanotechnology Fuze-on-a-Chip		4,000		3,600
	Rapid Prototyping for Special Projects		5,000		5,000
	Rapid Insertion of Developmental Technologies		3,000		2,400
	Common Smart Submunition (CSS)		1,000		1,000
	Disruptive Technology Acceleration		2,000		1,600
	L96 program adjustment			-5,000	-2,000
	Development of Truck-deployed Explosive Containment Vessel			1,800	1,440
	Integrated Aircraft Test Bed			2,000	1,600
	Knowledge Driven Manufacturing System (KDMS)			1,000	1,000
	Lightweight Cannon Recoil Reduction			1,000	800
	Raman Chemical Identification System			2,000	1,600
33	**COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY**	**131,436**	**197,386**	**193,321**	**247,216**
	Tactical Wheeled Vehicle Structures for Improved Survivability and Performance		4,000	5,000	4,000
	Special Operations Vehicle - lightweight, Armored, Hybrid, Power Generating,Tactical Vehicle		2,000		1,600
	Tactical Rocket Propelled Grenade Airbag Protection System (TRAPS) Enhancement		2,000		1,600
	LEAN Digital Product Development		1,000		2,000
	Networked Reliability and Safety Early Evaluation System (NRSEES)		2,000		1,600
	Advance Lithium Iron Phosphate Battery System for Army Combat Hybrid HMMWV and Other Army Vehicle Platforms		2,000		1,600
	Antiballistic Windshield Armor (AWA)		3,000	4,000	4,000
	Center for Tribology and Coatings		2,000		1,600
	Defect-Free Commercially Viable Si/C Semiconductor Using Superlattice Technology		4,000		3,200
	On-Board Vehicle Power Management		2,000		1,600
	High Performance Aluminum Structures and Components		2,000		1,600

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1	Budget Request	House	Senate	Conference
Military and Interstate Commercial Truck Component Weight Reduction Program		3,000		2,400
Hydraulic Hybrid Vehicles (HHV) for the Tactical Wheeled Fleet		1,000		1,000
3-D Advanced Battery Technology		4,000	2,000	3,200
High Speed Diesel Combustion		2,000	4,000	3,200
Vehicle Armor Structure Development and Testing for Future Combat Systems and Joint Light Tactical Vehicle		1,000		1,000
Liquid Desiccant-Based Atmospheric Water Generation without Reverse Osmosis		1,000		900
Diminishing Manufacturing Sources and Material Shortages (DMSMS) Case Resolution Program		2,000	2,000	2,000
Battlefield Requirements Management Support System		1,000		1,000
High Strength, Powder Metal Gears for Vehicle Transmissions		3,250		2,600
Improved HMMWV Tactical Shelter Project		1,200		1,000
No Idle System (NIS)		1,000		1,000
Advanced Thermal Management System		4,000		3,200
Advanced Composites Development for Light Weight, Low Cost Transportation Systems Using 3+ Extruder		4,000		3,200
Tactical Wheeled Vehicle Composite Component Weight Reduction Program		3,000		2,400
Diesel Hybrid-Electric Utility Vehicles		2,500		2,000
Secure On-the-Move Information Analysis and Control for Advanced Combat Vehicles		2,000		1,600
Full Spectrum Close-in Layered Shield (FCLAS) for thin skinned vehicles (Transfer from line 55)				1,600
FED			-10,000	0
53G Unjustified Program			-14,215	0
Active Protection Systems Initiative for the Joint Light Tactical Vehicle			3,800	3,040
Advanced Digital Hydraulic Hybrid Drive System (Transfer to line 13)			1,000	0
Advanced Lightweight Composite Armor			2,000	1,600
Advanced Thermal and Oil Management Controls			2,000	1,600
Armor Ready Composite Cab Transition			3,000	3,000
Army Fuel Cell Non-Tactical Vehicle Propulsion (Included in below entry for Next Generation Non-Tactical Vehicle Propulsion)			2,000	0
Center for Military Vehicle Technologies			5,100	4,080
Crosshairs Hostile Fire Indicating System			3,000	3,000
Enhanced Directed Armor RPG Vehicle Protection System			1,000	800
Field Deployable Fleet Hydrogen Fueling			3,000	2,400
Fuel Cell Cost Reduction and Durability Improvements			2,000	1,600

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
	Ground Forces Readiness Enabler for Advanced Tactical Vehicles (GREAT-V)			2,000	1,600
	Ground Vehicle Fastening and Joining Research			1,000	800
	Hybrid Engine Development Program for the Tactical Wheeled Vehicle Fleet			8,000	8,000
	Lightweight Structural Composite Armor for Blast and Ballistic Protection		2,000	2,000	2,000
	Next Generation Manufacturing Technologies for Defense Supply Chain			4,000	3,200
	Next Generation Non-Tactical Vehicle Propulsion (Includes funding for Army Fuel Cell Non-Tactical Vehicle propulsion)			2,000	1,600
	Novel Onboard Hydrogen Storage System Development			3,000	2,400
	Rotary Multi-Fuel Auxiliary Power Unit for M1A1 Abrams Tank		2,000	2,000	2,000
	Unmanned Ground Vehicle Initiative (UGVI)			12,000	12,000
	Vehicle Design Optimization Tools (Transfer to line 13)			1,000	0
	Vehicle Information Manager Display for Drivers (VMID)			1,000	800
	Vehicle Maintenance and Prognostics System			3,200	2,560
34	**COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHNOLOGY**	**12,255**	**14,255**	**12,255**	**14,255**
	No-Idle Climate Control for Military Vehicles		2,000		2,000
36	**ELECTRONIC WARFARE ADVANCED TECHNOLOGY**	**49,199**	**58,449**	**49,199**	**57,099**
	Applied Communications and Information Networking (ACIN)		5,000		4,000
	Advanced Wireless Technologies				500
	Portable Mobile Emergency Broadband Systems (PMEBS)		4,250		3,400
38	**NEXT GENERATION TRAINING AND SIMULATION SYSTEMS**	**18,723**	**22,223**	**21,723**	**22,523**
	Joint Fires and Effects Training System (JFETS)		2,500	2,000	2,000
	Vigilant Auto-ID and Access Control System		1,000		1,000
	Experiential Technologies for Urban Warfare and Disaster Response			1,000	800
40	**IED DEFEAT TECHNOLOGY DEVELOPMENT**	**0**	**3,000**	**0**	**2,400**
	Compact Pulse Power Initiative		3,000		2,400
41	**EXPLOSIVES DEMILITARIZATION TECHNOLOGY**	**10,349**	**13,349**	**19,849**	**21,649**
	Sierra Army Depot Cryofracture/Plasma Arc Transportable System		3,000		2,400
	Cryofracture/Plasma Arc Demilitarization Program			3,000	2,400
	Missile Recycling Capability - Letterkenney Munitions Center			6,500	6,500

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
42	**MILITARY HIV RESEARCH**	**6,998**	**16,998**	**6,998**	**14,998**
	HIV Research		10,000		8,000
45	**ELECTRONIC WARFARE TECHNOLOGY**	**17,419**	**44,919**	**23,419**	**42,219**
	Advanced IED Jammer Research and Development Program		3,000		2,400
	WIZARD - Remotely Controlled Improvised Explosive Device Countermeasures		2,000		1,600
	Advanced Communications ECM Demonstration (Augments current program)		12,000		9,600
	Non-communications ECM Technology Demonstration (Augments current program)		8,000		6,400
	US Army Future Force ELINT		2,500		2,000
	DAIRCM/CMWS for Army helicopters			6,000	2,800
46	**MISSILE AND ROCKET ADVANCED TECHNOLOGY**	**60,353**	**72,353**	**69,353**	**77,753**
	Waterside Wide Area Tactical Coverage & Homing (WaterWATCH)		3,000		3,000
	Smart Energetics Architecture for Missile Systems		2,000		1,600
	Rapid Response System for Protection of Air and Ground Vehicles		5,000		4,000
	Nanosystem Engineering for Missile Applications (NEMA)		1,000		0
	High Fidelity Virtual simulation and Analysis (HFVSA)		1,000		1,000
	Army Virtual Emergency Research Testbed (AVERT)			3,000	2,400
	Perimeter & Maritime Sensor Network			3,000	2,400
	Software Engineering Enhancements			3,000	3,000
48	**LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY**	**25,315**	**27,315**	**29,315**	**30,915**
	Enhanced Landmine and IED Detection Technology		2,000		1,600
	Advanced Demining Technology			4,000	4,000
49	**JOINT SERVICE SMALL ARMS PROGRAM**	**8,097**	**9,347**	**8,097**	**10,697**
	Modular Individual Weapon Sight and Low Cost Remote Weapon Station		1,250		1,000
	Polymer Small Arms Production (Transfer from PA,A line 2)				1,600
50	**NIGHT VISION ADVANCED TECHNOLOGY**	**35,892**	**44,892**	**47,892**	**54,292**
	Hyperspectral Sensors for Improved Force Protection (Hyper-IFP)		2,000		1,600
	Advanced Night Vision Sensors		2,500		2,000
	Cable Warning and Obstacle Avoidance System		1,500		1,200
	Hand Launched Unmanned Aerial System High Performance Payload (SUAS HPP)		3,000		2,400
	Enhanced Digital Electronic Night Vision (EDEN)			4,000	3,200
	FCS Short Range Electro Optic (SREO) Sensor for Stryker			4,000	3,200
	UCXR System			4,000	3,200
	Next Generation FPA Development (Transfer from line 19)				1,600

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
52	**MILITARY ENGINEERING ADVANCED TECHNOLOGY**	**6,837**	**22,037**	**15,037**	**28,537**
	Gas Engine Driven Air Conditioning Demonstration		1,500		1,200
	Synthetic Auto Virtual Environment (SAVE)		2,000		1,600
	Defense Applications of Carbonate Fuel Cells		2,000		1,600
	Zero Energy Homes at Ft. Knox, Kentucky		1,200		1,000
	Natural Gas Firetube Boiler Demonstration		500		500
	JGES for Improved Combat Situational Awareness		5,000		4,000
	Fireproofing/Corrosion Resistant Coating System for Military Infrastructure		1,000		1,000
	Army Applications of Direct Carbon Fuel Cells		2,000		1,600
	Advanced Tactical Fuels for the Military			2,000	2,000
	Development and Research of Zero Energy Homes at Ft. Campbell			1,200	2,200
	Direct Methanol Fuel Cell Development			2,000	2,000
	Regenerative Fuel Cell System for Silent Camp Operations			3,000	3,000
53	**ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECHNOLOGY**	**67,011**	**78,511**	**67,631**	**74,611**
	Advanced Radar Transceiver Integrated Circuits Development		1,000		800
	Sensor Visualization and Data Fusion (SVDF)		1,500		1,200
	X-band Interferometric Radar		2,000	2,000	2,000
	1 Megawatt Molten Carbonate Fuel Cell Demonstrator at 29 Palms		2,000	4,000	3,200
	Aviation Responsive Maintenance System		2,000		1,600
	Advanced Battery Technology (Transfer to line 55)		1,000		0
	Software Lifecycle Affordability Management (SLAM)		2,000		2,000
	FOPEN descope			-16,380	-12,000
	Enhanced Multi-Mission Radar			3,000	2,400
	HYPERSAR Radar			4,000	3,200
	Shared Vision			4,000	3,200

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
	ARMY MISSILE DEFENSE SYSTEMS				
55	**INTEGRATION**	**14,389**	**59,389**	**112,389**	**128,229**
	Standoff Hazardous Agent Detection & Evaluations System (SHADES)		2,000	2,000	2,000
	BAFST (Biological Air Filtration System Technology)		2,000		1,600
	Advanced Standoff Technologies for National Security		1,000		800
	Micro Seeker System for Small Steerable Projectiles		2,000		1,600
	Full Spectrum Active Protection Close-In Layered Shield (FCLAS) for Thin-Skinned Vehicles (Transfer to line 33)		2,000		0
	Advanced Hypersonic Weapon Mission Planning		3,000		2,400
	Next Generation Interceptors Materials Research		2,000		1,600
	Thermal and Electrical Nanoscale Transport (TENT)		2,000		1,600
	Integrated Composite Mounting Hardware		1,000		1,000
	Transfer Missile Power System		2,000	3,000	2,400
	Advanced Fuel Cell Research Program, also known as Advanced Laser Electric Power (ALEP)		3,000	2,000	2,400
	Radiation Hardening Initiative (RHI)		2,000	2,000	2,000
	Remote Explosive Analysis and Detection System (READS)		2,000		1,600
	Micro-systems and nano-technology for Advanced Technology Development		1,000		1,000
	Orion High Altitude Long Endurance UAV		7,500		6,000
	Next Generation Passive Sensors (NGPS)		5,000		4,000
	Dielectrically Enhanced Sensor System (DESS)		5,500		4,400
	Advanced Battery Technology (Transfer from line 53)				1,000
	Adaptive Lightweight Materials for Missile Defense			2,000	1,600
	Advanced Cavitation Power Technology			5,900	5,420
	Advanced Electronics Rosebud Integration			4,000	4,000
	Advanced Environmental Control System			4,000	4,000
	Advanced Hypersonic Weapon Technology Demonstration			41,700	41,700
	Advanced Strap-down Seeker			2,500	0
	AHW BMC2 HWIL Technology Demonstration			3,000	2,400
	Alternative Power Technology (APT) for Missile Defense			4,000	3,200
	Compact Pulsed Power for Defense Applications			2,000	1,600
	Future TOC Hardware/Software Integration			2,000	1,600
	Heat Dissipation for Electronic Systems & Enclosures			3,000	2,400
	Model-Based Enterprise			1,000	800
	Neutralization of IEDs			3,000	3,000
	Low-Earth Orbit Nanosatellite Integrated Defense Autonomous Systems (Transfer to RDTE,AF line 61)			5,000	0
	Vertical Integration for Missile Defense Surveillance Data			5,900	4,720

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
56	**ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE)**	**17,421**	**29,321**	**39,621**	**49,601**
	Simulation and Design of Large Electromagnetic Systems		1,900		1,520
	Spatial Acquisition and Measurement of Power Sources		1,000		1,000
	Integrated Modeling of Air & Ground Environments (IMAGE)		3,000		2,400
	Geospatial Airship Research Platform (GARP)		4,000		3,200
	Ultra Light UAV Sensor Platform (ULSP)		2,000		1,600
	High Altitude Airship (Transfer from Senate GP 8116)				2,500
	High Energy Matter Space Propulsion (Transfer from RDTE,AF line11)				800
	Applied Counterspace Technology (ACT) Testbed			6,400	5,120
	HiSentinel			5,800	4,640
	Integrated Nanosat Delivery System			3,000	2,400
	Low Cost Interceptor (LCI)			5,000	5,000
	Tactical Overwatch High Altitude System (TOHAS)			2,000	2,000
57	**AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING**	**176,142**	**178,142**	**170,142**	**171,542**
	Army Extended Range Attack Missile (AERAM) Turbine Engine Development		2,000		1,600
	S32 unjustified growth			-10,000	-10,000
	Advanced Extended Range Attack Missile			1,000	800
	Border Security and Defense Systems Research			3,000	3,000
60	**SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV**	**19,449**	**19,449**	**6,449**	**9,449**
	Excessive program delays			-13,000	-10,000
61	**TANK AND MEDIUM CALIBER AMMUNITION**	**44,578**	**44,578**	**48,578**	**47,778**
	High Explosive Air Burst (HEAB) 25mm Ammunition			4,000	3,200
62	**ADVANCED TANK ARMAMENT SYSTEM (ATAS)**	**142,486**	**144,986**	**142,486**	**144,486**
	Northern Ohio Integrated Command Operations Program		2,500		2,000
63	**SOLDIER SUPPORT AND SURVIVABILITY**	**4,787**	**4,787**	**5,787**	**5,787**
	Responsive Textiles			1,000	1,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
66	**ENVIRONMENTAL QUALITY TECHNOLOGY**	**6,149**	**20,799**	**20,149**	**18,699**
	Western Hemisphere Information Exchange Program (WHIX)		3,000		2,400
	Hawaii Undersea Chemical Weapons Assessment Program (Transfer to line 20)		5,500	5,500	0
	National Defense Center for Environmental Excellence		1,500		1,200
	Integrated Mission Critical Environment, Safety and Occupational Health Technology and Regional Sustainability Solutions Program		3,000		2,400
	Battlefield Plastic Biodiesel		1,650		1,650
	Battlefield Asset Recovery Decontamination System			3,000	0
	Modifications to mVHP for use against TICs/TIMs			2,500	2,500
	Web-Based Environmental Compliance Management			3,000	2,400
67	**WARFIGHTER INFORMATION NETWORK-TACTICAL**	**222,296**	**356,296**	**222,296**	**322,296**
	Transfer from Other Procurement, Army, Line 38 for Increment II		134,000		100,000
70	**LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV**	**27,499**	**27,499**	**27,499**	**38,236**
	Transfer from Other Procurement, Army line 163 for Harbor Master Command and Control Center				10,737
71	**COMBAT SERVICE SUPPORT CONTROL SYSTEM EVAL**	**19,054**	**19,054**	**13,554**	**15,054**
	Program growth without acquisition strategy			-5,500	-4,000
72	**MEDICAL SYSTEMS ADVANCED DEVELOPMENT**	**12,479**	**23,479**	**22,979**	**29,879**
	Total Quality System for FDA Regulated Activities at U.S. Army Medical Research and Materiel Command		1,000		800
	Lightweight Trauma Module (LTM)		3,000		2,400
	Future Medical Shelter System - 44/48 Bed Combat Support Hospital		2,500	7,500	6,000
	Future Medical Shelter System (FMSS)				2,000
	Pneumothorax Detection Device		1,500		1,200
	Electroosmotic Pain Therapy System		2,000		1,600
	Leishmaniasis Skin Test Antigen		1,000		1,000
	Wireless Medical Monitoring System (WiMed)			3,000	2,400

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
73	**SOLDIER SYSTEMS - ADVANCED DEVELOPMENT**	**18,178**	**22,478**	**16,778**	**20,218**
	Acid Alkaline Direct Methanol Fuel Cell Technology		2,000		1,600
	Warrior SIGINT Capability		2,300		1,840
	S54 40mm Reconnaissance Cartridge			-1,400	-1,400
77	**ARMED, DEPLOYABLE OH-58D**	**82,310**	**129,310**	**182,310**	**182,310**
	Transfer from Aircraft Procurement, Army, Line 3		47,000	100,000	100,000
78	**ELECTRONIC WARFARE DEVELOPMENT**	**55,716**	**55,716**	**58,016**	**57,556**
	Bi-Directional English-Iraqi Instant Language Translation System			2,300	1,840
83	**INFANTRY SUPPORT WEAPONS**	**45,229**	**53,229**	**57,229**	**63,429**
	Integration of the Javelin Antitank Missile onto the US Army Common Remotely Operated Weapon Station		2,000		1,600
	Integration of MK47, 40mm Air Burst Fuse Capability onto U.S. Army Common Remotely Operated Weapon Station		1,000		1,000
	Common Remotely Operated Weapon Station (CROWS) with Acoustic Target Recognition and Cueing Control		1,000		800
	Protector Enhancements and Integration on New Vehicle Platforms Program		2,000		1,600
	Enhanced Flame Retardant Body Protection		2,000		1,600
	Enhanced Self-Sintered Silicon Carbide Body Armor			2,000	1,600
	XM312			10,000	10,000
84	**MEDIUM TACTICAL VEHICLES**	**1,994**	**4,794**	**4,494**	**6,394**
	Track Over Tire System		800		800
	Universal Diagnostic Data Management System - Deployment		2,000		1,600
	Fuel Saving Continuously Variable Transmission for FMTV and JLTV			2,500	2,000
86	**FAMILY OF HEAVY TACTICAL VEHICLES**	**1,947**	**2,947**	**11,947**	**12,747**
	High Performance Aluminum Military Trailers		1,000		800
	Heavy Expanded Mobile Tactical Truck A3			10,000	10,000
88	**LIGHT TACTICAL WHEELED VEHICLES**	**82,300**	**55,300**	**38,800**	**38,500**
	Program delay		-27,000	-45,000	-45,000
	Second Source Tires for JLTV			1,500	1,200
90	**NON-LINE OF SIGHT LAUNCH SYSTEM**	**253,410**	**253,410**	**255,010**	**254,690**
	Enforc-IT Anti Tamper System			1,600	1,280
92	**FCS MANNED GROUND VEHICLES AND COMMON GROUND VEHICLE**	**696,333**	**506,033**	**696,333**	**596,033**
	Program Adjustment		-190,300		-100,300

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
93	**FCS SYSTEMS OF SYSTEMS ENGINEERING AND PROGRAM MANAGEMENT**	**1,589,466**	**1,422,466**	**1,589,466**	**1,507,466**
	Program Adjustment		-192,000		-102,000
	Small Business Technology Insertion		25,000		20,000
94	**FCS RECONNAISSANCE (UAV) PLATFORMS**	**41,164**	**42,264**	**41,164**	**43,664**
	FC3, FCS Reconnaissance (UAV) Platforms		2,500		2,500
	Program Adjustment		-1,400		0
95	**FCS UNMANNED GROUND VEHICLES**	**90,667**	**87,567**	**90,667**	**90,667**
	Program Adjustment		-3,100		0
97	**FCS SUSTAINMENT & TRAINING R&D**	**678,781**	**631,781**	**678,781**	**651,781**
	Program Adjustment		-47,000		-27,000
99	**NIGHT VISION SYSTEMS - SDD**	**44,619**	**44,619**	**47,619**	**47,619**
	Lightweight Multi-purpose Laser			3,000	3,000
104	**AUTOMATIC TEST EQUIPMENT DEVELOPMENT**	**18,025**	**18,025**	**8,025**	**10,025**
	L59 funding ahead of need			-10,000	-8,000
105	**DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD**	**16,594**	**18,744**	**16,594**	**18,314**
	Joint Training Integration and Evaluation Center		2,150		1,720
108	**WEAPONS AND MUNITIONS - SDD**	**55,368**	**68,368**	**57,368**	**65,668**
	Mortar Anti-Personnel/Anti-Materiel (MAPAM) Development		3,000	2,000	2,400
	HYBRID Propellant for Medium and Large Caliber Ammunition		8,000		6,400
	Lightweight Multi-Functional Material Technology		2,000		1,500
109	**LOGISTICS AND ENGINEER EQUIPMENT - SDD**	**45,009**	**48,009**	**45,009**	**47,409**
	2kW Military Tactical Generator Product Improvement		3,000		2,400
111	**MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT**	**15,823**	**22,323**	**22,323**	**27,923**
	Advanced Packaging Solutions for Biotherapeutics		1,000		800
	Plasma Sterilizer		3,000	3,000	3,000
	Rotary Valve Pressure Swing Absorption Oxygen Generator		2,000		1,600
	Veterinary Research Manpower Development for Defense		500		500
	Military Applications of Medical Grade Chitosan			3,500	3,000
	Life Support for Trauma and Transport (LSTAT/LSTAT-Lite) (Transfer from OP,A line 146)				3,200

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1	Budget Request	House	Senate	Conference
112 LANDMINE WARFARE/BARRIER - SDD	**142,315**	**146,315**	**157,958**	**161,158**
Magneto Inductive Remote Activation Munitions Systems MI-RAMS		4,000		3,200
IMS FCS integration			-4,045	-4,045
Spider follow-on stand-off capability (Transfer from OP,A line 40)			19,688	19,688
114 ARTILLERY MUNITIONS	**63,039**	**65,039**	**7,089**	**64,639**
Advanced Cargo Projectile Technology		2,000		1,600
Pending acquisition strategy			-55,950	0
116 ARMY TACTICAL COMMAND & CONTROL HARDWARE i	**99,202**	**99,202**	**101,302**	**100,882**
C3T CDSOS (Cross Domain Strategic and Operational Solution)			2,100	1,680
118 GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS)	**53,559**	**112,600**	**112,600**	**112,600**
Transfer from Operation and Maintenance, Army, line 432		29,822	29,822	29,822
Transfer from Other Procurement, Army, line 107		29,219	29,219	29,219
120 SOLDIER SYSTEMS - WARRIOR DEM/VAL	**0**	**2,000**	**0**	**1,600**
Optimized M-25 Soldier Fuel Cell System		2,000		1,600
124 INFORMATION TECHNOLOGY DEVELOPMENT	**103,485**	**106,485**	**104,485**	**106,785**
Health Informatics Initiative		3,000		2,400
Electronic Commodity Program			1,000	900
126 THREAT SIMULATOR DEVELOPMENT	**21,887**	**23,887**	**21,887**	**23,487**
Electronic Combat and Counter Terrorism Training		2,000		1,600
127 TARGET SYSTEMS DEVELOPMENT	**13,499**	**15,999**	**18,499**	**17,899**
Next Generation Ice Protection Technologies System for UAVs		2,500	2,000	2,000
Mobile Objects for Net-Centric Operations			3,000	2,400
130 RAND ARROYO CENTER	**16,342**	**18,342**	**20,342**	**20,342**
Arroyo Center program adjustment		2,000	4,000	4,000
132 CONCEPTS EXPERIMENTATION PROGRAM	**34,004**	**38,004**	**29,466**	**29,866**
Gunfire Detection System for Unmanned Aerial Vehicles		2,000		1,600
Development of a Robust, Mobile Multispectral Fingerprint Capture Device Employing Multispectral Imaging Technology		2,000	2,000	2,000
Program adjustment			-12,538	-12,538
2D-3D Face Recognition System			3,000	2,400
Arabic Language Training Program			1,000	800
Automated Communication Support System			2,000	1,600

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1	Budget Request	House	Senate	Conference
133 SMALL BUSINESS INNOVATIVE RESEARCH	**0**	**3,000**	**0**	**2,400**
Electro-Magnetic Flak Impulse System		3,000		2,400
135 ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	**74,391**	**76,391**	**86,991**	**86,431**
Mobile Optical Tracking System (MOTS)		2,000		1,960
Dugway Testing and Infrastructure Upgrade			3,500	2,800
Joint Directed Energy Test Site - IED Defeat			6,000	4,800
Joint Tactical Network Test Environment			2,500	2,000
Robotic Manipulators for Explosive Ordnance Disposal			600	480
136 SURVIVABILITY/LETHALITY ANALYSIS	**40,343**	**41,843**	**42,343**	**41,943**
Rotorcraft Survivability Assessment Facility		1,500	2,000	1,600
137 DOD HIGH ENERGY LASER TEST FACILITY	**2,801**	**2,801**	**2,801**	**8,801**
Mid-Infrared Advanced Chemical Laser (HELSTF) (Transfer from Senate GP 8117)				3,000
Sealight Beam Directors (HELSTF) (Transfer from Senate GP 8118)				3,000
142 SUPPORT OF OPERATIONAL TESTING	**75,293**	**77,293**	**78,293**	**79,293**
EQUATE at Army Operational Test Command		2,000		1,600
Denied GPS			3,000	2,400
144 SIMULATION & MODELING FOR ACQUISITION, REQUIREMENTS, & TRAINING (SMART)	**5,342**	**6,342**	**5,342**	**6,342**
Passive Walking Beam Tracked Platform for Unmanned Ground Vehicles		1,000		1,000
146 TECHNICAL INFORMATION ACTIVITIES	**41,607**	**41,607**	**40,607**	**43,007**
Unjustified growth			-4,000	-1,000
Knowledge, Tech Sharing Program			3,000	2,400
147 MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	**19,606**	**29,606**	**38,406**	**41,206**
Medium Caliber Metal Parts Upgrade		2,000	3,000	2,400
Advanced Cluster Energetics		4,000	5,000	5,000
Defense Metals Technology Center		2,000		2,000
National Polymer Innovation Center (NPIC)		1,000		1,000
Domestically Produced Atomized Magnesium for Defense		1,000		1,000
Depleted Uranium Sensing and Treatment for Removal			4,900	4,900
Gun Propellant Demilitarization			3,000	2,400
Thermal Battery Qualification			2,900	2,900

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
155	**COMBAT VEHICLE IMPROVEMENT PROGRAMS**	**27,615**	**35,115**	**36,415**	**41,455**
	Component Optimization for Ground Systems		2,000		1,600
	Ground Combat Systems Open Architecture Electronic Enhancements		3,500		2,800
	Virtual Simulation and Modernization of Bradley Fighting Vehicle		2,000		1,600
	Combat Vehicle Transmission Improvement			4,800	3,840
	Vehicle Health Management Systems Development			4,000	4,000
156	**MANEUVER CONTROL SYSTEM**	**43,961**	**45,961**	**43,961**	**45,561**
	ARH-70A Armed Reconnaissance Helicopter Vehicle Health and Usage Management System (VHUMS) Demonstration		2,000		1,600
157	**AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS**	**325,643**	**330,143**	**324,143**	**330,643**
	Operator Situational Awareness System - MEDEVAC		2,500		2,000
	Advanced Communications Intelligence (COMINT)		2,000		1,600
	ACS lack of acquisition strategy			-19,500	-15,000
	Aircraft Component Remediation			3,000	2,400
	CH-47 Integrated Vehicle Health Management System (IVHMS)			10,000	10,000
	Helicopter Autonomous Landing System			5,000	4,000
158	**AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM**	**476**	**1,476**	**476**	**1,476**
	Fort Hood Digitization		1,000		1,000
169	**SECURITY AND INTELLIGENCE ACTIVITIES**	**0**	**5,500**	**0**	**4,600**
	Biometrics Automated Toolset Enhancements		2,000		1,600
	Mobile Object Search Toolkit for Intelligence Analysts		2,500		2,000
	ISR Synchronization and Visualization Tool for the Battle Command Laboratory Collection		1,000		1,000
170	**INFORMATION SYSTEMS SECURITY PROGRAM**	**28,332**	**32,282**	**28,332**	**31,682**
	Multiple Independent Levels of Security (MILS) Separation Kernel Technology Development		950		950
	Information Assurance Development		3,000		2,400
171	**GLOBAL COMBAT SUPPORT SYSTEM**	**129,689**	**94,689**	**59,689**	**94,689**
	Authorization Adjustment		-35,000	-70,000	-35,000
175	**TACTICAL UNMANNED AERIAL VEHICLES**	**97,947**	**97,947**	**97,947**	**101,947**
	Integrated Vehicle Health Monitoring System for UAVs				4,000

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousand of dollars]

R-1		Budget Request	House	Senate	Conference
177	**DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS**	**0**	**6,000**	**7,000**	**9,100**
	Asymmetric Threat Response and Analysis Project (ATRAP)		3,000	2,000	2,400
	Defense Common Ground Station - Army All Source Analysis System Integration		3,000		2,400
	Advanced Architecture Designs Supporting U.S. Army Net Centric Warfare			2,000	1,600
	Heuristic Internet Protocol Engine			2,000	1,900
	Effect Based Approach to Operations			1,000	800
179	**END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES**	**66,869**	**78,869**	**84,869**	**87,869**
	Smart Machine Platform Initiative		3,000		3,000
	Specialized Compact Automated Mechanical Clearance Platform (SCAMP)		500		400
	SuperPulse Laser System Development for Turbine Engine Applications		2,000		1,600
	Solid State Processing of Titanium Alloys for Defense Materiel Armaments		1,000		0
	National Center for Defense Manufacturing and Machining		2,000		1,600
	Advanced Materials Processing for Ultra-Efficient Power Systems		1,000		1,000
	Aging Weapons Systems Structural Repair			2,000	1,600
	Electrodeposited Coatings Systems			2,000	1,600
	High Temperature Ceramic Manufacturing Technology for Helicopter Rotor Blade Erosion Protection		2,500	2,000	2,000
	Improved Manufacturing Process for SAPI			4,000	3,200
	Laser Engineered Net Shaping (LENS) Qualification for Aging Weapons Systems			2,000	1,600
	Legacy Aerospace Gear Drive Re-Engineering Initiative			1,000	1,000
	Next Generation Combat Helmet			3,000	2,400
	Three Dimensional Printing of DOD Titanium Weapon System Components			2,000	0

NATIONAL EYE EVALUATION AND RESEARCH NETWORK

The conferees recognize the need to provide for our military readily accessible evaluation and testing for serious retinal injuries and diseases, as well as the need for a central repository for clinical trial data. Therefore, the conferees have provided $2,400,000 for the National Eye Evaluation and Research Network.

FUTURE COMBAT SYSTEMS (FCS)

The conferees recommend $3,357,398,000 in research and development funding for Army Future Combat Systems instead of $3,092,322,000 as proposed by the House and $3,565,018,000 as proposed by the Senate. Additionally, the FCS program for fiscal year 2008 includes for the first time procurement funds for facilitization and long lead items, which the conferees approved as requested, as detailed elsewhere in this report. Program funding for fiscal year 2008 supports the first of three planned technology spin outs which will deliver the benefits of FCS technology to other Army elements. Milestone 1 spin outs are planned to include Network Capability Integration kits for Abrams Tanks, Bradley Fighting Vehicles and HMMWVs. The conferees concur with the early integration of FCS technology across the total force, while continuing on a path towards fielding full FCS capability. The conferees designate FCS funding as a congressional special interest item for the purpose of prior approval reprogrammings as discussed elsewhere in this report.

GLOBAL COMBAT SUPPORT SYSTEM—ARMY (GCSS–A)

The conferees recommend $94,689,000 for GCSS–A, as proposed by the House, instead of $59,689,000 as proposed by the Senate. The conferees note that this is an increase of $46,703,000, almost 100 percent, over the amount provided in fiscal year 2007. The conferees direct the Army to provide to the congressional defense committees a revised fiscal year 2008 spend plan based on fiscal year 2008 appropriations no later than thirty days after enactment of this Act.

ORGANIC PRECISION INDIRECT FIRE CAPABILITY

Recent Operational Needs Statements from theater identified a requirement for an organic precision indirect fire capability for infantry brigades in the near term. The conferees understand that the Army has conducted an analysis of several potential systems, to include the 120mm Precision Guided Mortar Munition (PGMM), that could address this capability gap. The conferees further understand that based on cost, performance, technological readiness, compatibility with existing systems and near-term fielding availability, the Army considers PGMM the best solution. If additional funds are needed during fiscal year 2008 to ensure that sufficient funds are available to complete development of the PGMM, the Committees on Appropriations would entertain a reprogramming request.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

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

(In thousands of dollars)

		Budget	House	Senate	Conference
	RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY				
	BASIC RESEARCH				
1	UNIVERSITY RESEARCH INITIATIVES	76,637	93,137	90,637	100,637
2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	16,556	16,556	17,556	16,556
3	DEFENSE RESEARCH SCIENCES	374,052	380,052	385,752	388,952
	TOTAL, BASIC RESEARCH	467,245	489,745	493,945	506,145
	APPLIED RESEARCH				
4	POWER PROJECTION APPLIED RESEARCH	83,419	102,019	99,419	108,019
5	FORCE PROTECTION APPLIED RESEARCH	155,936	167,436	196,436	196,436
6	MARINE CORPS LANDING FORCE TECHNOLOGY	26,785	27,785	31,285	32,285
7	MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY	---	2,500	2,000	2,000
8	COMMON PICTURE APPLIED RESEARCH	93,376	99,376	104,376	105,376
9	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	88,297	102,297	101,397	109,177
10	RF SYSTEMS APPLIED RESEARCH	45,451	51,451	51,451	52,451
11	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	49,869	55,369	49,869	54,669
12	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	6,081	6,081	6,081	6,081
13	UNDERSEA WARFARE APPLIED RESEARCH	68,455	70,955	71,455	72,855
14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	59,874	68,374	64,374	71,474
	TOTAL, APPLIED RESEARCH	677,543	753,643	778,143	810,823
	ADVANCED TECHNOLOGY DEVELOPMENT				
15	POWER PROJECTION ADVANCED TECHNOLOGY	49,684	54,684	89,184	86,984
16	FORCE PROTECTION ADVANCED TECHNOLOGY	70,850	106,100	99,850	122,100
17	COMMON PICTURE ADVANCED TECHNOLOGY	40,782	43,782	111,540	93,382
18	WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY	102,124	113,624	95,124	102,824
19	RF SYSTEMS ADVANCED TECHNOLOGY	22,676	27,676	38,676	41,676
20	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)	70,968	76,468	74,968	78,768
21	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	10,938	13,438	10,938	13,438
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	12,145	43,645	19,145	49,845
24	UNDERSEA WARFARE ADVANCED TECHNOLOGY	73,626	74,626	76,826	77,826
25	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	41,196	41,196	41,196	41,196

(In thousands of dollars)

		Budget	House	Senate	Conference
26	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	26,840	27,840	26,840	27,640
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	521,829	623,079	684,287	735,679
	DEMONSTRATION & VALIDATION				
27	AIR/OCEAN TACTICAL APPLICATIONS.....	47,914	44,914	48,914	44,514
28	AVIATION SURVIVABILITY.....	6,252	20,252	11,752	21,852
29	DEPLOYABLE JOINT COMMAND AND CONTROL.....	9,475	9,475	9,475	9,475
30	ASW SYSTEMS DEVELOPMENT.....	16,706	21,706	16,706	20,706
31	TACTICAL AIRBORNE RECONNAISSANCE.....	4,063	4,063	4,063	4,063
32	ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	9,331	9,331	9,331	9,331
33	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	91,122	92,722	91,122	91,122
34	SURFACE SHIP TORPEDO DEFENSE.....	15,967	28,967	17,467	27,867
35	CARRIER SYSTEMS DEVELOPMENT.....	84,806	89,306	84,806	88,406
36	SHIPBOARD SYSTEM COMPONENT DEVELOPMENT.....	9,450	27,050	34,550	44,550
37	PILOT FISH.....	132,131	132,131	127,131	129,631
38	RETRACT LARCH.....	89,601	89,601	89,601	89,601
39	RETRACT JUNIPER.....	37,405	37,405	37,405	37,405
40	RADIOLOGICAL CONTROL.....	1,546	1,546	1,546	1,546
41	SURFACE ASW.....	25,560	50,560	27,560	47,160
43	ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	134,882	139,382	155,182	155,482
44	SUBMARINE TACTICAL WARFARE SYSTEMS.....	9,865	10,865	11,515	12,185
45	SHIP CONCEPT ADVANCED DESIGN.....	30,858	32,858	39,858	40,058
46	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	18,736	18,736	26,436	26,436
47	ADVANCED NUCLEAR POWER SYSTEMS.....	166,196	166,196	166,196	166,196
49	CHALK EAGLE.....	211,201	211,201	211,201	211,201
50	LITTORAL COMBAT SHIP (LCS).....	217,502	229,002	300,502	309,302
51	COMBAT SYSTEM INTEGRATION.....	53,427	58,427	53,427	57,427
52	CONVENTIONAL MUNITIONS.....	8,941	8,941	8,941	8,941
53	MARINE CORPS ASSAULT VEHICLES.....	288,220	288,220	190,220	253,220
54	MARINE CORPS MINE/COUNTERMEASURES SYSTEMS - ADV DEV...	657	657	657	657
55	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	80,403	83,903	54,403	57,203

(In thousands of dollars)

		Budget	House	Senate	Conference
56	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	83,361	83,361	83,361	83,361
57	COOPERATIVE ENGAGEMENT	33,283	38,283	33,283	37,283
58	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	5,122	5,122	5,122	5,122
59	ENVIRONMENTAL PROTECTION	19,850	21,350	19,850	21,050
60	NAVY ENERGY PROGRAM	5,335	6,335	5,335	6,135
61	FACILITIES IMPROVEMENT	4,131	10,581	4,131	9,481
62	CHALK CORAL	28,297	28,297	28,297	28,297
63	NAVY LOGISTIC PRODUCTIVITY	3,547	15,547	9,547	19,647
64	RETRACT MAPLE	346,144	346,144	346,144	346,144
65	LINK PLUMERIA	88,748	88,748	88,748	88,748
66	RETRACT ELM	79,144	79,144	79,144	79,144
67	SHIP SELF DEFENSE	10,954	10,954	10,954	10,954
68	LINK EVERGREEN	31,607	31,607	31,607	31,607
69	SPECIAL PROCESSES	40,940	40,940	40,940	40,940
70	NATO RESEARCH AND DEVELOPMENT	9,934	9,934	9,934	9,934
71	LAND ATTACK TECHNOLOGY	31,021	62,021	31,021	51,821
72	NONLETHAL WEAPONS	45,892	48,892	45,892	48,492
74	JOINT PRECISION APPROACH AND LANDING SYSTEMS	70,811	70,811	70,811	70,811
75	SINGLE INTEGRATED AIR PICTURE (SIAP) SYSTEM ENGINEER	46,450	46,450	46,450	46,450
76	COUNTER-DRUG RDT&E PROJECTS	---	10,000	---	8,000
77	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	---	2,500	---	2,000
78	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	27,569	34,569	27,569	33,169
79	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS)	126,434	---	---	---
80	JOINT AIR-TO-GROUND MISSILE (JAGM)	15,000	15,000	15,000	15,000
81	SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE	42,295	42,295	42,295	42,295
	TOTAL, DEMONSTRATION & VALIDATION	2,998,086	3,056,302	2,905,402	3,101,422
	ENGINEERING & MANUFACTURING DEVELOPMENT				
83	OTHER HELO DEVELOPMENT	46,815	42,815	41,815	41,815
84	AV-8B AIRCRAFT - ENG DEV	17,360	17,360	17,360	17,360

(In thousands of dollars)

		Budget	House	Senate	Conference
85	STANDARDS DEVELOPMENT	106,242	110,242	106,242	109,442
86	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	78,151	78,151	78,151	78,151
87	AIR/OCEAN EQUIPMENT ENGINEERING	5,162	5,162	5,162	5,162
88	P-3 MODERNIZATION PROGRAM	8,621	4,621	8,621	4,621
89	WARFARE SUPPORT SYSTEM	2,911	4,911	2,911	6,311
90	TACTICAL COMMAND SYSTEM	86,921	89,421	86,921	89,421
91	ADVANCED HAWKEYE	808,993	808,993	808,993	808,993
92	H-1 UPGRADES	3,608	3,608	3,608	3,608
93	ACOUSTIC SEARCH SENSORS	18,325	19,325	18,325	19,125
94	V-22A	117,997	117,997	117,997	117,997
95	AIR CREW SYSTEMS DEVELOPMENT	24,267	24,267	24,267	24,267
96	EA-18	272,699	274,699	272,699	274,299
97	ELECTRONIC WARFARE DEVELOPMENT	41,064	44,564	41,064	44,064
98	VHXX EXECUTIVE HELO DEVELOPMENT	270,971	230,971	270,971	230,971
99	JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY)	853,676	853,676	853,676	853,676
100	SC-21 TOTAL SHIP SYSTEM ENGINEERING	621,544	629,544	637,544	642,744
101	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	142,810	146,810	142,810	146,210
102	LPD-17 CLASS SYSTEMS INTEGRATION	4,300	4,300	4,300	4,300
103	SMALL DIAMETER BOMB (SDB)	9,832	9,832	9,832	9,832
104	STANDARD MISSILE IMPROVEMENTS	231,791	231,791	231,791	231,791
105	AIRBORNE MCM	54,761	57,761	54,761	57,161
106	NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG.	11,497	15,497	11,497	15,097
107	ADVANCED ABOVE WATER SENSORS	121,494	121,494	121,494	121,494
108	SSN-688 AND TRIDENT MODERNIZATION	114,789	115,789	122,789	121,189
109	AIR CONTROL	4,166	4,166	4,166	4,166
111	SHIPBOARD AVIATION SYSTEMS	28,100	28,100	28,100	28,100
112	COMBAT INFORMATION CENTER CONVERSION	17,139	17,139	19,139	18,739
113	NEW DESIGN SSN	223,958	249,958	228,958	249,058
114	SSN-21 DEVELOPMENTS	2,457	2,457	2,457	2,457

(In thousands of dollars)

	Budget	House	Senate	Conference
115 SUBMARINE TACTICAL WARFARE SYSTEM	53,703	55,703	55,703	56,903
116 SHIP CONTRACT DESIGN/ LIVE FIRE T&E	62,404	63,404	67,304	63,404
118 MINE DEVELOPMENT	2,092	2,092	2,092	2,092
120 LIGHTWEIGHT TORPEDO DEVELOPMENT	27,056	27,056	27,056	27,056
122 JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	10,382	10,382	10,382	10,382
123 PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	8,830	8,830	8,830	8,830
125 JOINT STANDOFF WEAPON SYSTEMS	24,851	30,851	24,851	29,651
126 SHIP SELF DEFENSE (DETECT & CONTROL)	33,064	35,064	35,064	35,664
127 SHIP SELF DEFENSE (ENGAGE: HARD KILL)	67,366	70,366	75,866	74,166
128 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	34,323	37,323	36,323	39,123
129 INTELLIGENCE ENGINEERING	1,959	1,959	1,959	1,959
130 MEDICAL DEVELOPMENT	7,973	37,573	20,873	43,173
131 NAVIGATION/ID SYSTEM	42,121	42,121	42,121	42,121
133 JOINT STRIKE FIGHTER (JSF)	1,707,372	2,038,872	1,805,772	1,905,772
135 INFORMATION TECHNOLOGY DEVELOPMENT	22,181	26,181	22,181	25,581
136 INFORMATION TECHNOLOGY DEVELOPMENT	54,098	62,098	77,098	80,398
138 CH-53X	417,161	407,161	397,161	397,161
139 MULTI-MISSION MARITIME AIRCRAFT (MMA)	880,106	881,106	880,106	881,106
140 TACTICAL CRYPTOLOGIC SYSTEMS	39,053	41,053	39,053	40,653
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	7,848,516	8,244,616	8,008,216	8,146,816
RDT&E MANAGEMENT SUPPORT				
141 THREAT SIMULATOR DEVELOPMENT	23,924	23,924	23,924	23,924
142 TARGET SYSTEMS DEVELOPMENT	32,376	32,376	32,376	32,376
143 MAJOR T&E INVESTMENT	37,614	41,714	42,614	41,714
144 STUDIES AND ANALYSIS SUPPORT - NAVY	7,516	7,516	7,516	7,516
145 CENTER FOR NAVAL ANALYSES	49,360	49,360	49,360	49,360
148 TECHNICAL INFORMATION SERVICES	694	5,694	19,194	21,994
149 MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	49,498	49,498	49,498	49,498
150 STRATEGIC TECHNICAL SUPPORT	3,452	3,452	3,452	3,452

(In thousands of dollars)

	Budget	House	Senate	Conference
151 RDT&E SCIENCE AND TECHNOLOGY MANAGEMENT	68,180	68,180	68,180	68,180
152 RDT&E INSTRUMENTATION MODERNIZATION	1,423	1,423	1,423	1,423
153 RDT&E SHIP AND AIRCRAFT SUPPORT	184,541	184,541	184,541	184,541
154 TEST AND EVALUATION SUPPORT	336,130	336,130	336,130	336,130
155 OPERATIONAL TEST AND EVALUATION CAPABILITY	12,176	12,176	12,176	12,176
156 NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT	2,439	2,439	2,439	2,439
157 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	29,071	24,071	29,071	24,071
158 MARINE CORPS PROGRAM WIDE SUPPORT	20,166	25,166	21,166	24,966
159 TACTICAL CRYPTOLOGIC ACTIVITIES	1,508	1,508	1,508	1,508
160 SERVICE SUPPORT TO JFCOM, JNTC	5,078	---	5,078	5,078
TOTAL, RDT&E MANAGEMENT SUPPORT	865,146	869,168	889,646	890,346
OPERATIONAL SYSTEMS DEVELOPMENT				
163 HARPOON MODIFICATIONS	43,470	43,470	43,470	43,470
164 UNMANNED COMBAT AIR VEHICLE (UCAV) ADVANCED COMPONENT	161,665	161,665	161,665	161,665
165 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	81,398	54,398	69,398	69,398
166 SSBN SECURITY TECHNOLOGY PROGRAM	33,109	33,109	33,109	33,109
167 SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	4,149	4,149	4,149	4,149
168 NAVY STRATEGIC COMMUNICATIONS	36,531	36,531	36,531	36,531
169 RAPID TECHNOLOGY TRANSITION (RTT)	44,756	40,756	40,056	40,556
170 F/A-18 SQUADRONS	44,891	50,891	48,891	52,891
171 E-2 SQUADRONS	22,691	22,691	22,691	22,691
172 FLEET TELECOMMUNICATIONS (TACTICAL)	23,108	24,108	23,108	24,108
173 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)	11,405	17,005	11,405	15,885
174 INTEGRATED SURVEILLANCE SYSTEM	27,740	29,740	29,740	31,340
175 AMPHIBIOUS TACTICAL SUPPORT UNITS	1,845	1,845	1,845	1,845
176 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	6,987	10,487	6,987	9,787
177 CRYPTOLOGIC DIRECT SUPPORT	1,443	1,443	1,443	1,443
178 ELECTRONIC WARFARE (EW) READINESS SUPPORT	34,340	34,340	34,340	34,340
179 HARM IMPROVEMENT	34,762	38,262	34,762	44,262
180 TACTICAL DATA LINKS	5,534	5,534	5,534	5,534

(In thousands of dollars)

	Budget	House	Senate	Conference
181 SURFACE ASW COMBAT SYSTEM INTEGRATION	11,200	18,200	19,200	18,400
182 MK-48 ADCAP	17,941	20,941	17,941	20,341
183 AVIATION IMPROVEMENTS	100,284	108,284	115,284	119,684
184 NAVY SCIENCE ASSISTANCE PROGRAM	3,473	3,473	3,473	3,473
185 OPERATIONAL NUCLEAR POWER SYSTEMS	71,720	71,720	71,720	71,720
186 MARINE CORPS COMMUNICATIONS SYSTEMS	280,140	285,640	261,240	265,640
187 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	57,177	66,177	59,177	64,377
188 MARINE CORPS COMBAT SERVICES SUPPORT	12,946	12,946	12,946	12,946
189 TACTICAL AIM MISSILES	4,445	4,445	4,445	4,445
190 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	4,579	4,579	2,579	2,579
191 JOINT HIGH SPEED VESSEL (JHSV)	18,934	18,934	18,934	18,934
192 MARITIME INTELLIGENCE	---	---	6,000	4,800
195 SATELLITE COMMUNICATIONS (SPACE)	736,572	741,572	722,572	740,772
196 INFORMATION SYSTEMS SECURITY PROGRAM	28,393	32,393	31,893	34,393
197 JOINT COMMAND AND CONTROL PROGRAM (JC2)	1,007	1,007	1,007	1,007
198 JOINT COMMAND AND CONTROL PROGRAM (JC2)	5,015	5,015	5,015	5,015
199 COBRA JUDY	132,679	132,679	132,679	132,679
200 NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METOC)	4,887	4,887	4,887	4,887
202 JOINT MILITARY INTELLIGENCE PROGRAMS	5,444	5,444	5,444	5,444
203 TACTICAL UNMANNED AERIAL VEHICLES	50,185	59,185	54,185	62,585
204 ENDURANCE UNMANNED AERIAL VEHICLES	116,666	116,666	116,666	116,666
205 AIRBORNE RECONNAISSANCE SYSTEMS	50,677	56,977	55,677	59,717
206 MANNED RECONNAISSANCE SYSTEMS	22,488	22,488	23,988	23,688
207 DISTRIBUTED COMMON GROUND SYSTEMS	19,350	21,350	19,350	21,350
208 AERIAL COMMON SENSOR (ACS)	16,606	6,606	16,606	6,606
209 MODELING AND SIMULATION SUPPORT	7,832	7,832	7,832	7,832
210 DEPOT MAINTENANCE (NON-IF)	19,402	19,402	19,402	19,402
211 AVIONICS COMPONENT IMPROVEMENT PROGRAM	1,635	1,635	1,635	1,635
212 INDUSTRIAL PREPAREDNESS	56,445	58,445	56,445	58,445

(In thousands of dollars)

	Budget	House	Senate	Conference
213 MARITIME TECHNOLOGY (MARITECH)	---	1,500	16,000	14,000
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	2,477,946	2,520,846	2,493,346	2,556,466
999 CLASSIFIED PROGRAMS	1,219,225	1,161,225	1,219,225	1,170,825
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY	17,075,536	17,718,624	17,472,210	17,918,522

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
(in thousands of dollars)

R-1		Budget Request	House	Senate	Conference
1	**UNIVERSITY RESEARCH INITIATIVES**	**76,637**	**93,137**	**90,637**	**100,637**
	Blast and Impact Resistant Composite Structures for Navy Ships		2,000		1,600
	Cell-Based Sensors for Chemical Threats		1,000	1,500	1,200
	Center for Hetero-Functional Materials		2,500		2,000
	Center for Nanoscience and Nanomaterials		1,500		1,200
	CSTARS (Center for Southeastern Tropical Advanced Remote Sensing)		2,500		2,000
	Microwave Ferrites and Multifunctional Integrated Circuits		1,000		800
	National Security Training		2,000		2,000
	Research Infrastructure for the Applied Physics Laboratory		4,000		3,200
	Low Acoustic and Thermal Signature Battlefield Power Source			2,500	2,000
	University Research Initiatives			10,000	8,000
2	**IN-HOUSE LABORATORY INDEPENDENT RESEARCH**	**16,556**	**16,556**	**17,556**	**16,556**
	Alternative Futures at the Range Complex level for the SouthWest U.S. (transfer to RDTE, DW line 2)			1,000	0
3	**DEFENSE RESEARCH SCIENCES**	**374,052**	**380,052**	**385,752**	**388,952**
	Energetics Technology Center/Energetics S&T Workforce		3,000		2,400
	Mobile Ad Hoc Data Communications for Unmanned Systems		1,000		800
	ONAMI Nanoelectronics and Nanometrology Initiative		1,000	2,500	2,000
	Stand-off Biochemical Agent Detection		1,000		800
	Evaluating ELF Signals in Maritime Environment (transfer from line 33)			1,700	1,600
	Navy Science and Technology Outreach			1,000	800
	Texas Microfactory			3,500	3,500
	Rotational Molded Double Wall for Un-Manned Patrol Boat			3,000	3,000
4	**POWER PROJECTION APPLIED RESEARCH**	**83,419**	**102,019**	**99,419**	**108,019**
	Aging Evaluation of Advanced Materials Used for Military Aircraft		1,500		1,200
	Clustered Millimeter Wave Imaging Sensors		600	2,000	1,600
	High Energy Conventional Energetics (Phase One)		6,000	5,000	5,000
	High Power Free Electron Laser Development for Naval Applications (transfer from line 15)		2,500		2,000
	Marine Mammals - Effects of Sound		1,000		800
	Modular Payload Systems		2,500		2,000
	Multifunctional Oxide Materials, Their Application and Devices (MFMA)		2,500		2,000
	Strike Weapon Propulsion (SWEAP)		2,000		2,000
	Advanced Propulsion for Gun Launched Projectiles and Missiles			1,000	800
	Combustion Light Gas Gun Projectile			4,000	3,200
	High Performance Alloy Materials, Steel Castings			2,000	2,000
	Unmanned Aerial Vehicle Fuel Cell Power Source			2,000	2,000

R-1		Budget Request	House	Senate	Conference
5	**FORCE PROTECTION APPLIED RESEARCH**	**155,936**	**167,436**	**196,436**	**196,436**
	Advanced Simulation Tools for Aircraft Structures Made of Composite Materials		2,000	2,000	2,000
	Critical Composites Technologies for Enabling Special Operations Forces Medium Range Endurance Craft		1,000	1,000	1,000
	High Temperature Super Conducting Magnetic Energy Storage		500		400
	High Toughness Aluminum Structures		1,500		1,200
	Integration of Electro-Kinetic Weapons into Next Generation of Navy Ships		1,000		0
	Optical Recognition Protocol for Biologics Detection		1,000		800
	Planar Solid Oxide Fuel Cell System Demonstration at UTC SimCenter		3,500		3,500
	Stabilized Laser Designation Capability		1,000		1,000
	Alternative Energy Research			20,000	16,000
	Force Protection Applied Research			2,500	2,000
	Lithium-Ion Cell Development			3,000	3,000
	Magnetic Refrigeration Technology			4,000	3,200
	PMRF Force Protection Lab			2,500	2,000
	Shipboard Production of Synthetic Logistics and Aviation Fuel			2,000	1,600
	Undersea Perimeter Security Integrated Defense Environment			3,500	2,800
6	**MARINE CORPS LANDING FORCE TECHNOLOGY**	**26,785**	**27,785**	**31,285**	**32,285**
	High Power Lightweight Zinc-Air Battery		1,000		1,000
	Survivability Program			1,500	1,500
	Warfighter Rapid Awareness Processing Technology for Distributed Operations			3,000	3,000
7	**MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY**	**0**	**2,500**	**2,000**	**2,000**
	Digital Direct Manufacturing Research Center (transfer to line 9)		1,000		0
	Infrared Materials Laboratories		1,500	2,000	2,000
8	**COMMON PICTURE APPLIED RESEARCH**	**93,376**	**99,376**	**104,376**	**105,376**
	Advanced Panoramic Sensor Systems for UAV's		1,000		800
	All Weather Sense & Avoid for UAV's		2,000	3,000	2,400
	Radio Sensor Module (RASM)		2,000		1,600
	UGV Mobility & Coordination in Joint Urban/Littoral Environments		1,000		800
	M2C2			4,000	3,200
	Theater Undersea Warfare Initiative (TUSW)			4,000	3,200

R-1		Budget Request	House	Senate	Conference
9	**WARFIGHTER SUSTAINMENT APPLIED RESEARCH**	**88,297**	**102,297**	**101,397**	**109,177**
	Advanced Fouling and Corrosion Control Coatings		2,000	2,000	2,000
	Advanced Reinforced Materials and New Materials Research for Aircraft Tires		1,000		1,000
	Atmospheric Water Harvesting		1,000		1,000
	Durability of Composite Materials and Structures		2,000		1,600
	Mast-mounted In-Port Video Force Protection Surveillance System		2,000		1,600
	Mission Deployable Surveillance Biometrics		2,000		1,600
	Nanotechnology Engineer & Manufacturing Operation (NEMO)		1,000		800
	Virtual Clinical Learning Lab and Center of Excellence		3,000		2,400
	Amelioration of Military Hearing Loss			1,000	800
	Biosensors for Defense Applications			2,500	2,000
	Digital Directed Manufacturing Project (transfer from line 7)			1,600	1,280
	Miniaturization, Systemization of Semiconducting Metal Oxide			1,000	800
	Nanotechnology Research			5,000	4,000
10	**RF SYSTEMS APPLIED RESEARCH**	**45,451**	**51,451**	**51,451**	**52,451**
	Gallium Nitride RF Power Technology		2,000	2,500	2,000
	Notre Dame Center for the Engineering of Oxide-Nitride Structures (CEONS)		2,000		1,600
	Reparative Core Medicine		1,000		1,000
	Ultra Stable Coherent Laser		1,000		800
	National Initiatives for Applications of Multifunctional Materials			2,000	1,600
	Silicon Carbide MOSFETs for Electric Power Systems (transfer to RDTE,Army line 18)			1,500	0
11	**OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH**	**49,869**	**55,369**	**49,869**	**54,669**
	Autonomous Undersea Vehicle Applications Center		1,500		1,200
	Autonomous Marine Sensors and Networks for Rapid Littoral Assessment		2,000		1,600
	Littoral Battlespace Sensing (LBS) & Autonomous Underwater Vehicle System (UAV) Program		1,000		1,000
	Underwater Acoustic Imaging for Maritime Domain Awareness		1,000		1,000
13	**UNDERSEA WARFARE APPLIED RESEARCH**	**68,455**	**70,955**	**71,455**	**72,855**
	Autonomous Unmanned Undersea Vehicle (UUV) Delivery & Communications Demonstration		2,500		2,000
	Galfenol Energy Harvesting			2,000	1,600
	High Power Lithium Battery			1,000	800

R-1		Budget Request	House	Senate	Conference
	MINE AND EXPEDITIONARY WARFARE APPLIED				
14	**RESEARCH**	**59,874**	**68,374**	**64,374**	**71,474**
	Autonomous Underwater Vehicle (AUV) Docking and Recharging Station		3,500		2,800
	Center for Detection and Neutralization of Electronically Initiated Improvised Explosive Devices		3,000		2,400
	Navy Special Warfare (NSW) Unattended Sensor Network		2,000		1,600
	Electromagnetic Signature Assessment System Using Multiple Autonomous Underwater Vehicles			2,500	2,000
	NMSU Water Security Program			1,000	800
	Virtual Onboard Analyst (VIRONA) for Multi-Sensor Mine Detection			1,000	1,000
	Remote Controlled Surveillance Sonar System (RCSSS)				1,000
15	**POWER PROJECTION ADVANCED TECHNOLOGY**	**49,684**	**54,684**	**89,184**	**86,984**
	Flow Path Analysis Tool (FPAT)		1,000		1,000
	High Speed Anti-radiation Demonstration (HSAD)		2,000		1,600
	Magdalena Ridge Observatory (MRO)		2,000	6,500	6,500
	Advanced Motor-Propulsor Development and Testing			5,000	4,000
	Autonomous Unmanned Surface Vessel (AUSV) (transfer to line 126)			1,000	0
	Excalibur			1,000	800
	Expeditionary Craft			20,000	20,000
	Free Electron Laser Naval Applications (transfer to line 4)			2,000	0
	Information Sharing for ISRTE			1,000	1,000
	Long Wavelength Array			3,000	2,400
16	**FORCE PROTECTION ADVANCED TECHNOLOGY**	**70,850**	**106,100**	**99,850**	**122,100**
	Accelerating Fuel Cells Manufacturability and their Application in the Armed Forces		2,750	3,000	2,750
	Advanced Logistics Fuel Reformer for Fuel Cells		3,000		2,400
	Advanced Navy Boat Lift (13,000 – 24,000 lbs.) Research and Development		1,000		1,000
	Agile Port and High Speed Ship Technology		3,000		2,400
	Cryogenic Power System for Unmanned Underwater Vehicles		1,000		1,000
	Detecting Improvised Explosive Devices		1,000		1,000
	Direct Motor Driven Waterjet		2,000		1,600
	High Speed Power Node Switching and Control Center		2,000		1,600
	Innovative Methods for Shipbuilding Affordability		2,000		1,600
	Integrated Advanced Communications Terminal (IACT)		1,000		1,000
	Multi-Fuel Combustor for Shipboard Fuel Cells		2,000		1,600
	M65 Bismaleimide Carbon Fiber Prepreg		3,000		2,400
	Pure Hydrogen Supply from Logistic Fuels		3,000		2,400
	Secure Infrastructure Technology Laboratory (SINTEL)		3,000	4,000	3,200
	Solid-State DC Protection System (SSDCP)		500		400
	Tactical Compact Optical Interrogator		2,000		1,600
	Underground Coordination of Managed Mesh-Networks		1,000		800
	Wide Area Sensor for Force Protection Targeting		2,000		1,600
	Advanced Volume Sensor System			2,000	1,600
	Electrochemical Field-Deployable System for Potable Water Generation			3,000	2,400
	Formable Textile for Complex Shaped Aerospace Composites			2,000	1,600
	Future Fuel Non-Tactical Vehicle Initiative			2,000	1,600
	Laser Perimeter Awareness System				1,500
	Manufacturing and Repair Cell			4,000	4,000
	Maritime Mobile Force Protection Program			2,000	1,600
	Single Generator Operations Lithium Ion Battery			5,000	5,000
	Wide-Band Gap Semiconductor Materials			2,000	1,600

R-1		Budget Request	House	Senate	Conference
17	**COMMON PICTURE ADVANCED TECHNOLOGY**	**40,782**	**43,782**	**111,540**	**93,382**
	Computer Forensics for Enhanced Maritime Domain Awareness		1,000		1,000
	Maritime Identification Surveillance Technology (MIST)		2,000		1,600
	GPS Extension Program, transfer from RDT&E,AF line 29			70,758	50,000
18	**WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY**	**102,124**	**113,624**	**95,124**	**102,824**
	Environmentally-Sealed, Ruggedized Avionics Displays		2,000		1,600
	Littoral Combat Ship (LCS) Networked Tactical Training System (NTTS)		1,000		1,000
	NADEP Cherry Point Center for Vertical Lift - Institute for Maintenance, Science and Technology		3,000		2,400
	National Center for Research on Evaluation, Standards, and Student Testing (CRESST) Skill Set Analysis (Note: Including $2M to support CRESST as a UARC for Educational and Training Technology Assessment)		3,000		2,400
	Validation of Prognostic and Health Management Systems		2,500		2,500
	Slow Execution			-10,000	-10,000
	Defense Modernization and Sustainment Initiative (transfer to RDTE,A line 18)			2,000	0
	Protective Apparel Technology Systems			1,000	800
19	**RF SYSTEMS ADVANCED TECHNOLOGY**	**22,676**	**27,676**	**38,676**	**41,676**
	C-Band Active Array Radar System		5,000		4,000
	Pacific Airborne Surveillance and Testing			16,000	15,000
20	**MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)**	**70,968**	**76,468**	**74,968**	**78,768**
	Craft Integrated Electronic Suite (CIES)		3,000		2,400
	Dual-Stage Ultra-Reliable Water Filtration Technology Development		2,500		2,000
	MEMS Microdetonator Packaging Technology			3,000	2,400
	Marine Air-Ground Task Force Situational Awareness			1,000	1,000
21	**JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT**	**10,938**	**13,438**	**10,938**	**13,438**
	Chameleon Chemical Detection Armband		2,500		2,500
23	**WARFIGHTER PROTECTION ADVANCED TECHNOLOGY**	**12,145**	**43,645**	**19,145**	**49,845**
	C. W. Bill Young Bone Marrow Donor Recruitment and Research Program		31,500		31,500
	Integrated Warfighter Biodefense Program			3,000	2,400
	Massive Tissue Injury/Amputation Repair with Composite Tissue Transplantation			3,000	3,000
	Neural Control of External Devices (artificial limb movement)			1,000	800
24	**UNDERSEA WARFARE ADVANCED TECHNOLOGY**	**73,626**	**74,626**	**76,826**	**77,826**
	Upward Looking Sonar (ULS)		1,000		1,000
	Deep Water Acoustic Detection System			3,200	3,200

R-1		Budget Request	House	Senate	Conference
26	**MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY**	**26,840**	**27,840**	**26,840**	**27,640**
	Joint Explosive Ordnance Disposal (JEOD) Diver Situational Awareness System		1,000		800
27	**AIR/OCEAN TACTICAL APPLICATIONS**	**47,914**	**44,914**	**48,914**	**44,514**
	Gateway System		2,000		1,600
	Meteorological and Ocean Sensors (METOC) Data Acquisition Program Growth		-10,000		-10,000
	Naval Observatory Joint Milli-Arcsecond Pathfinder Survey (J-MAPS) Program		5,000		4,000
	Semi-Submersible UUV			1,000	1,000
28	**AVIATION SURVIVABILITY**	**6,252**	**20,252**	**11,752**	**21,852**
	Equipment Life Extension Project (ELEP)		1,500		1,200
	Intelligent Autonomy Technology Transition Program (IA)		2,500		2,000
	Modular Advanced Helmet Vision System		2,000		1,600
	Silver Fox UAS		1,000		800
	Smart Visor		2,000		1,600
	Technology Collaboration for Aerospace Engineering Programs		2,000		1,600
	Unmanned Force Augmentation System		3,000		2,400
	Intelligence Gathering Uninhabited System			2,000	1,600
	Unmanned Aircraft Systems Optimization Technologies			3,500	2,800
30	**ASW SYSTEMS DEVELOPMENT**	**16,706**	**21,706**	**16,706**	**20,706**
	Marine Mammal Awareness, Alert and Response Systems (MMAARS)		3,000		2,400
	Tactical E-Field Buoy Development Program		2,000		1,600
33	**SURFACE AND SHALLOW WATER MINE COUNTERMEASURES**	**91,122**	**92,722**	**91,122**	**91,122**
	Evaluating Extremely Low Frequency (ELF) Signals in Maritime Environments (transfer to line 3)		1,600		0
34	**SURFACE SHIP TORPEDO DEFENSE**	**15,967**	**28,967**	**17,467**	**27,867**
	Anti-Torpedo Torpedo (ATT)		3,000		2,400
	Anti-Submarine Warfare (ASW) Enhancements		10,000		8,000
	Sensor Arrays for Multiple Applications			1,500	1,500
35	**CARRIER SYSTEMS DEVELOPMENT**	**84,806**	**89,306**	**84,806**	**88,406**
	Carrier Plant Automation and Manning Reduction Technology Insertion		1,000		800
	Improved Corrosion Protection for Electromagnetic Aircraft Launch System (EMALS) for CVN-21		2,500		2,000
	Quiet Interlude Processing System (QuIPS) Integration with Undersea Warfare – Decision Support System (USW-DSS)		1,000		800

R-1	Budget Request	House	Senate	Conference
36 SHIPBOARD SYSTEM COMPONENT DEVELOPMENT	**9,450**	**27,050**	**34,550**	**44,550**
Advanced Combatant Materials Research		2,000		1,600
Advanced Fluid Controls for Shipboard Applications		1,000	3,000	2,400
Advanced Repair Technology for the Expeditionary Navy		1,000		800
Air Gun Ship Shock Testing of Naval Vessels		2,000		1,600
Circuit Breaker for Navy Shipboard Power Distribution Systems		600		600
Diagnostic/Prognostic Pump				0
High Efficiency Quiet Electric Drive		2,000		1,600
High Temperature Superconductor (HTS) Navy Propulsion Motor for DDG-1000		2,500		2,000
Integrated Power System Converter		1,000		800
Internet Protocol over Power Line Carrier Technology Integration with Integrated Condition Assessment System (ICAS)		2,000		1,600
Naval Flywheel Energy Storage System		1,000		600
Smart Valve		1,000	3,000	2,400
Shipboard Wireless Maintenance Assistant (SWMA)		1,500		1,200
Advanced Steam Turbine			5,000	4,000
DDG-51 Homopolar Hybrid Drive			6,100	5,500
MTTC/IPI and National Surface Treatment Center			4,000	3,200
Power Conversion Equipment for High Density Power			1,000	800
Propulsor Manufacturing Technology			3,000	2,400
High Temperature Superconductor AC Synchronous Propulsion Motor				2,000
37 PILOT FISH	**132,131**	**132,131**	**127,131**	**129,631**
Slow Execution			-5,000	-2,500
41 SURFACE ASW	**25,560**	**50,560**	**27,560**	**47,160**
Small Business Technology Insertion		25,000		20,000
Improved Surface Vessel Torpedo Launcher			2,000	1,600
43 ADVANCED SUBMARINE SYSTEM DEVELOPMENT	**134,882**	**139,382**	**155,182**	**155,482**
Acoustic Materials for Integral Bow Conformal Array		1,000		1,000
Navy Submarine Hydraulic Oil Recycling and Waste Reduction		1,000		1,000
Low Cost - Laser Module Assembly for the Navy's Acoustic Sensors (LC-LMA)				1,000
Twinline Thinline Submarine Towed Array		2,500	4,000	3,200
CISRT Enabling Materials Technology			3,000	2,400
Controllable Shock Absorber for Advanced Submarines			1,800	1,800
Organic Submarine Airborne ISRT Demonstration			3,500	2,800
Submarine Artificial Intelligence-Based Combat System Kernal			3,000	2,400
Undersea Launched Missile Study			5,000	5,000
44 SUBMARINE TACTICAL WARFARE SYSTEMS	**9,865**	**10,865**	**11,515**	**12,185**
High Awareness Littoral Observing (HALO) Sensor - 360 Degree Imaging for Submarines		1,000		1,000
Submarine Targeting Agile Array with Rapid Zooming			1,650	1,320

R-1	Budget Request	House	Senate	Conference
45 SHIP CONCEPT ADVANCED DESIGN	**30,858**	**32,858**	**39,858**	**40,058**
Advanced Video Processing Technologies (AVPT)		1,000		1,000
SCOUT MK3		1,000		1,000
Autonomous Maritime Navigation Program			6,000	4,800
Low-Signature Modular Weapon Platform			3,000	2,400
46 SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	**18,736**	**18,736**	**26,436**	**26,436**
Common Composite Island Concept			2,700	2,700
Support for Naval Ship Hydrodynamic Facilities			5,000	5,000
50 LITTORAL COMBAT SHIP (LCS)	**217,502**	**229,002**	**300,502**	**309,302**
Anti-Submarine Warfare (ASW) Contact Management Mission Planning Improvement		3,500		2,800
LCS Mission Package Enterprise		5,000		4,000
Remote Multi-Mission Vehicle Anti-Submarine Warfare (ASW) Mission Module for LCS		3,000		2,400
Fully Fund LCS 1 and 2			81,000	81,000
New Payloads and Sensors Unmanned Surface Vehicle System			2,000	1,600
51 COMBAT SYSTEM INTEGRATION	**53,427**	**58,427**	**53,427**	**57,427**
Open Architecture/Maintenance Free Operating Period		3,000		2,400
Automated Test and Re-Test		2,000		1,600
53 MARINE CORPS ASSAULT VEHICLES	**288,220**	**288,220**	**190,220**	**253,220**
Program Delay (EFV)			-100,000	-35,000
Intelligent Machining of Advanced Defense Materials (transfer to line 55)			2,000	0
55 MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	**80,403**	**83,903**	**54,403**	**57,203**
Intelligent Machining of Advanced Defense Materials (transfer from line 53)		3,500		2,800
Joint Light Tactical Vehicle Contract Delay			-35,000	-35,000
Anti-Sniper Infrared Targeting System			5,000	5,000
Urban Operations Environmental Lab			4,000	4,000
57 COOPERATIVE ENGAGEMENT	**33,283**	**38,283**	**33,283**	**37,283**
Cooperative Engagement Capability		5,000		4,000
59 ENVIRONMENTAL PROTECTION	**19,850**	**21,350**	**19,850**	**21,050**
Puget Sound Anoxia Research		1,500		1,200
60 NAVY ENERGY PROGRAM	**5,335**	**6,335**	**5,335**	**6,135**
Ocean Thermal Energy Conversion (OTEC)		1,000		800
61 FACILITIES IMPROVEMENT	**4,131**	**10,581**	**4,131**	**9,481**
Advanced Photovoltaic Material Integration Development		950		950
Kinetic Hydropower System (KHPS) Turbine		4,000		3,200
Swimmer Detection Sonar Network		1,500		1,200
63 NAVY LOGISTIC PRODUCTIVITY	**3,547**	**15,547**	**9,547**	**19,647**
Defense Integrated Technical Data Center		1,500		1,200
National Item Identification Number Validation and Correction		2,000		1,600
Unique Identification of Tangible Items		8,500		8,500
Highly Integrated Optical Interconnects			2,000	1,600
Multi-Colored Infrared Sensors			4,000	3,200

R-1		Budget Request	House	Senate	Conference
71	**LAND ATTACK TECHNOLOGY**	**31,021**	**62,021**	**31,021**	**51,821**
	Affordable Weapon System		19,000		15,200
	Modular Advanced Ultra Light Weapons System Prototype Mount		10,000		4,000
	76mm Super Rapid Medium Caliber Gun System Explosives Safety Review		2,000		1,600
72	**NONLETHAL WEAPONS**	**45,892**	**48,892**	**45,892**	**48,492**
	Spherical Airship Research and Development		2,000		1,600
	High-Power Microwave System for Vehicle Immobilization		1,000		1,000
76	**COUNTER-DRUG RDT&E PROJECTS**	**0**	**10,000**	**0**	**8,000**
	Global Personal Locator Beacon for Counter-Narcoterrorism		2,000		1,600
	Project Athena		8,000		6,400
77	**DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS**	**0**	**2,500**	**0**	**2,000**
	Lasers for Navy Applications		2,500		2,000
78	**TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES**	**27,569**	**34,569**	**27,569**	**33,169**
	Assault Directed Infrared Countermeasures		5,000		4,000
	High Power Fiber Laser (HPFL) - Based Pod		2,000		1,600
79	**HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS)**	**126,434**	**0**	**0**	**0**
	Conventional Trident Modification		-126,434	-126,434	-126,434
83	**OTHER HELO DEVELOPMENT**	**46,815**	**42,815**	**41,815**	**41,815**
	Wireless Blade Monitoring System (WBMS)		1,000		0
	Program execution		-5,000		-5,000
	Program delay			-5,000	0
85	**STANDARDS DEVELOPMENT**	**106,242**	**110,242**	**106,242**	**109,442**
	Advanced Measurement Standards Development		4,000		3,200
88	**P-3 MODERNIZATION PROGRAM**	**8,621**	**4,621**	**8,621**	**4,621**
	Program execution		-4,000		-4,000
89	**WARFARE SUPPORT SYSTEM**	**2,911**	**4,911**	**2,911**	**6,311**
	Agent-Based Expeditionary Security System for Anti-Terrorism Afloat		1,000		800
	Wireless Imaging and Sensor Network		1,000		1,000
	Distributed Detection Classification and Localization (DCL) (transfer from line 126)				1,600
90	**TACTICAL COMMAND SYSTEM**	**86,921**	**89,421**	**86,921**	**89,421**
	Distributed Multi-Platform Sensor Support System		2,500		2,500
93	**ACOUSTIC SEARCH SENSORS**	**18,325**	**19,325**	**18,325**	**19,125**
	Deep Extended Echo Ranging (DEER)		1,000		800
96	**EA-18**	**272,699**	**274,699**	**272,699**	**274,299**
	Next Generation Electronic Warfare Simulator (NGEWS)		2,000		1,600
97	**ELECTRONIC WARFARE DEVELOPMENT**	**41,064**	**44,564**	**41,064**	**44,064**
	EA-6B ALQ-99 Band 5/6 Traveling Wave Tube (TWT) Driver Modification		1,000		1,000
	Point Mugu Electronic Warfare Lab Upgrade		2,500		2,000

R-1	Budget Request	House	Senate	Conference
98 VH-71A EXECUTIVE HELO DEVELOPMENT	**270,971**	**230,971**	**270,971**	**230,971**
Program execution		-40,000		-40,000
100 SC-21 TOTAL SHIP SYSTEM ENGINEERING	**621,544**	**629,544**	**637,544**	**642,744**
Floating Area Network (FAN) Littoral Sensor Grid		5,000		4,000
SmartLink Planar Scanner Antenna Modernization		2,000		1,600
Wireless Maritime Inspection System		1,000		1,000
Permanent Magnet Motor			9,000	9,000
Advanced Wireless Encryption Module			3,000	2,400
Bio/Nano-MEMS for Defense Applications			4,000	3,200
101 SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	**142,810**	**146,810**	**142,810**	**146,210**
Aegis Combat Information Center (CIC) Virtualization/Common Presentation Layer Integration		3,000		2,400
Smart Integrated Data Environment		1,000		1,000
105 AIRBORNE MCM	**54,761**	**57,761**	**54,761**	**57,161**
Airborne Mine Countermeasures (AMCM) "Open Architecture" Technology Insertion		3,000		2,400
106 NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENGINEERING	**11,497**	**15,497**	**11,497**	**15,097**
Sustainability of AN/SPS - 49 Common Signal Data Processor		4,000		3,600
108 SSN-688 AND TRIDENT MODERNIZATION	**114,789**	**115,789**	**122,789**	**121,189**
Advanced Intercept & Ranging System		1,000	4,000	3,200
Improved Submarine Thin Line Towed Array Handler			4,000	3,200
112 COMBAT INFORMATION CENTER CONVERSION	**17,139**	**17,139**	**19,139**	**18,739**
Environmentally Sealed, Ruggedized Large Scale Display for Tactical Operations Centers			2,000	1,600
113 NEW DESIGN SSN	**223,958**	**249,958**	**228,958**	**249,058**
Oxygen Generator		1,000		800
Small Business Technology Insertion		25,000		20,000
Combat Control for Distributed Netted Systems			2,000	1,600
Submarine Electronic Chart Updates			3,000	2,700
115 SUBMARINE TACTICAL WARFARE SYSTEM	**53,703**	**55,703**	**55,703**	**56,903**
Submarine Maintenance Automation and Communication System (SMACS)		2,000		1,600
Automated Submarine Command and Control Center			2,000	1,600
116 SHIP CONTRACT DESIGN/ LIVE FIRE T&E	**62,404**	**63,404**	**67,304**	**63,404**
Automated Fiber Optic Manufacturing Initiative		1,000		1,000
Transfer from NDSF for ship design			4,900	0
125 JOINT STANDOFF WEAPON SYSTEMS	**24,851**	**30,851**	**24,851**	**29,651**
Joint Stand Off Weapon Research and Development		6,000		4,800
126 SHIP SELF DEFENSE (DETECT & CONTROL)	**33,064**	**35,064**	**35,064**	**35,664**
Distributed Detection Classification and Localization (DCL) (transfer to line 89)		2,000		0
Expeditionary Swimmer Defense System			2,000	1,600
Autonomous Unmanned Surface Vessel (AUSV) (transfer from line 15)				1,000
127 SHIP SELF DEFENSE (ENGAGE: HARD KILL)	**67,366**	**70,366**	**75,866**	**74,166**
Phalanx Next Generation		3,000	8,500	6,800

R-1	Budget Request	House	Senate	Conference
128 SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	**34,323**	**37,323**	**36,323**	**39,123**
Advanced Radar Absorbing Tiles for Surface Ships		2,000	2,000	2,000
Electronic Warfare Concept Demonstrator for the Littoral Combat Ship		1,000		800
130 MEDICAL DEVELOPMENT	**7,973**	**37,573**	**20,873**	**43,173**
Advanced Research and Development of Hemostatic Agents (Note: USMC)		4,000		3,200
Center for Deployment Psychology		1,000		1,000
Granular Chitosan Clotting Agent for Anti-Coagulated Hypothermic Blood		1,500	1,000	1,200
Implantable Middle Ear Hearing System		1,000		1,000
Military Dental Research		2,000		1,600
Mobile Oxygen, Ventilation and External Suction (MOVES) (transfer from line 187)		2,100		2,000
On-Demand Custom Body Implants and Prosthesis for Injured Personnel		2,000		1,600
Penn State Cancer Institute		7,000		5,600
Somatic Cell Processing Program		2,000		1,600
Strategies to Mitigate Individual Stress Reactivity and Operational Stress Reactions in the Military		2,000		1,200
US Navy Pandemic Influenza Vaccine Program		2,000		1,600
VisualDX Image-Based Real-Time Clinical Decision Support		3,000		2,400
Multivalent Dengue Vaccine Program			3,000	3,000
Next Generation Networking Electronic Medical Records Project			4,900	4,000
Phase 1 Clincal Trials for Infusible Hemostatic Agent			4,000	3,200
Hampton University Cancer Treatment Initiative				1,000
133 JOINT STRIKE FIGHTER (JSF)	**1,707,372**	**2,038,872**	**1,805,772**	**1,905,772**
Alternate Engine Development		240,000	240,000	240,000
Excess Award Fees		-8,500	-8,600	-8,600
Production Affordability Initiatives and Information Assurance		100,000		100,000
Joint Strike Fighter Overbilling			-133,000	-133,000
135 INFORMATION TECHNOLOGY DEVELOPMENT	**22,181**	**26,181**	**22,181**	**25,581**
Electronic Portal for Analysis and Surveillance of Medical and Preventative Health Records		3,000		2,400
Oblique Imaging and Software Tool for Marine Installations		1,000		1,000
136 INFORMATION TECHNOLOGY DEVELOPMENT	**54,098**	**62,098**	**77,098**	**80,398**
Navy Condition Based Maintenance for Shipyard Facilities and Equipment		3,000		3,000
National Terrorism Preparedness Institute Counter-Terrorism Technology Development Training		3,000		2,400
SPAWAR System Center Information Technology Center (ITC)		2,000	10,000	10,000
Condition Based Maintenance Enabling Technologies			3,000	2,700
Digitization of NCIS Investigative Files			8,000	6,400
Integration of Logistics Info for Knowledge Projection and Readiness			2,000	1,800
138 CH-53K RDTE	**417,161**	**407,161**	**397,161**	**397,161**
Program execution		-10,000		0
Program delay			-20,000	-20,000
139 MULTI-MISSION MARITIME AIRCRAFT (MMA)	**880,106**	**881,106**	**880,106**	**881,106**
Military Aircraft Loss of Control Training Research		1,000		1,000

R-1	Budget Request	House	Senate	Conference
140 TACTICAL CRYPTOLOGIC SYSTEMS	**39,053**	**41,053**	**39,053**	**40,653**
AN/SSQ-137 (V) Ships Signals Exploitation Equipment Increment E		2,000		1,600
143 MAJOR T&E INVESTMENT	**37,614**	**41,714**	**42,614**	**41,714**
Network Expansion & Integration of Navy/NASA RDT&E Ranges & Facilities		4,100	5,000	4,100
148 TECHNICAL INFORMATION SERVICES	**694**	**5,694**	**19,194**	**21,994**
Commercialization of Advanced Technology (CAT)		3,000		2,400
Integrated Manufacturing Enterprise		2,000		1,600
HTDV			10,000	10,000
Naval Aviation Technology Exploration Initiative			1,000	800
Pacific-Based Joint Info Tech Center			7,500	6,500
157 SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	**29,071**	**24,071**	**29,071**	**24,071**
Program growth		-5,000		-5,000
158 MARINE CORPS PROGRAM WIDE SUPPORT	**20,166**	**25,166**	**21,166**	**24,966**
Automated Identification and Data Capture (AIDC) Solutions Center		3,500		2,800
USMC Logistics Analysis and Optimization		1,500		1,200
Individual Chemical Alert System			1,000	800
160 SERVICE SUPPORT TO JFCOM, JNTC	**5,078**	**0**	**5,078**	**5,078**
Transfer to Operation & Maintenance, Defense-wide (CE2T2)		-5,078		0
165 STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	**81,398**	**54,398**	**69,398**	**69,398**
Advanced Linear Accelerator (LINAC) Facility		3,000	3,000	3,000
Reliable Replacement Warhead		-30,000	-15,000	-15,000
169 RAPID TECHNOLOGY TRANSITION (RTT)	**44,756**	**40,756**	**40,056**	**40,556**
US Navy Mobile Condition Assessment System Pilot		1,000		800
Program execution		-5,000		-5,000
Reduce growth			-4,700	0
170 F/A-18 SQUADRONS	**44,891**	**50,891**	**48,891**	**52,891**
Airborne Tactical Server		3,000		2,400
F/A-18 Roadmap Procurement Plan Fidelity Upgrade		3,000		2,400
F/A-18 Tactical Operational Flight Trainers Fidelity			2,000	1,600
NAVAIR CPI Tech Manual Conversion and Support			2,000	1,600
172 FLEET TELECOMMUNICATIONS (TACTICAL)	**23,108**	**24,108**	**23,108**	**24,108**
AN-USQ-155 Card Upgrade for Navy Voice over Internet Protocol Telephony		1,000		1,000
173 TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)	**11,405**	**17,005**	**11,405**	**15,885**
Precision Terrain Aided Navigation		4,000		3,200
Tomahawk Weapons Control System		1,600		1,280
174 INTEGRATED SURVEILLANCE SYSTEM	**27,740**	**29,740**	**29,740**	**31,340**
Autonomous Anti-Submarine Vertical Beam Array		1,000		1,000
Low Cost, Expendable, Fiber Optic Sensor Array		1,000		1,000
Distributed Maritime Surveillance System			2,000	1,600
176 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	**6,987**	**10,487**	**6,987**	**9,787**
Anti-Submarine Warfare (ASW) Training Interoperability Enterprise Demonstration Test Bed		1,500		1,200
Total Ship Training System (TSTS) Support System		2,000		1,600

R-1	Budget Request	House	Senate	Conference
179 HARM IMPROVEMENT	**34,762**	**38,262**	**34,762**	**44,262**
Advanced Anti-Radiation Guided Missile (AARGM)		3,500		3,500
Advanced Precision Kill Weapons System				6,000
181 SURFACE ASW COMBAT SYSTEM INTEGRATION	**11,200**	**18,200**	**19,200**	**18,400**
Advanced Composite Materials for Acoustic Window Applications		6,000	8,000	6,400
Long Range Synthetic Aperture Sonar (SAS) for Anti-Submarine Warfare (ASW)		1,000		800
182 MK-48 ADCAP	**17,941**	**20,941**	**17,941**	**20,341**
Digital Data for Weapon System Readiness		1,000		800
MK-48 Torpedo Post-Launch Communication System		2,000		1,600
183 AVIATION IMPROVEMENTS	**100,284**	**108,284**	**115,284**	**119,684**
Age Exploration Model Enhancement and Vibration Analysis/Precision Measurement Integration		2,500		2,000
Advanced Avionics Miniaturization Program		1,000		1,000
Lightweight Composite Structure Development for Aerospace Vehicles		1,500		1,200
Aviation Improvements - Low Observable Aircraft Sealants		2,000		1,600
Rotor Blade Protection Against Sand and Water Erosion		1,000		800
Real-Time Weight and Balance Measurement System for C-130s			4,000	3,200
Arc Fault Circuit Breaker with Arc Location System			1,000	800
Rapid Repair UV Curable Structural Adhesives			4,000	4,000
Structural Life Tracking			2,000	1,600
F/A-18 Avionics Ground Support System			2,000	1,600
Wireless Sensors for Navy Aircraft			2,000	1,600
186 MARINE CORPS COMMUNICATIONS SYSTEMS	**280,140**	**285,640**	**261,240**	**265,640**
Battlefield Sensor Netting		3,000		2,400
STRIKE Research and Development and Integration with Intelligence C2 Systems / Counter Intelligence and Human Intelligence Equipment Program (CIHEP)		2,500		2,000
Program execution			-25,000	-25,000
Performance Enhancements for Information Assurance and Information Systems			6,100	6,100
187 MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	**57,177**	**66,177**	**59,177**	**64,377**
Expeditionary Fire Support System (EFSS) Projectile Technology Enhancements -- USMC		5,500		4,400
Tractable Durable Net Complex Shaped Body and Extremity Armor		2,000		1,600
Ultrasonic Consolidation of Embedded Sensors		1,500		1,200
Mobile Oxygen, Ventilation, and External Suction (MOVES) (transfer to line 130)			2,000	0
190 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	**4,579**	**4,579**	**2,579**	**2,579**
Unjustified Request: Medium Range Missile Concept			-2,000	-2,000
192 MARITIME INTELLIGENCE	**0**	**0**	**6,000**	**4,800**
Secure Data Sharing for Digital Radiographic Imaging			1,500	1,200
Surf Eagle Open Source Environmental Intelligence			4,500	3,600

R-1	Budget Request	House	Senate	Conference
195 SATELLITE COMMUNICATIONS (SPACE)	**736,572**	**741,572**	**722,572**	**740,772**
Field Programmable Processor Array (FPPA) for Space Based "Reconfigurable" Wide Field of View Sensor		2,000		1,600
Joint Integrated Systems for Advanced Digital Networking (JIST-NET)		1,000		1,000
Transformational Satellite Communications (TSAT) Upgrade to Navy Multi-Band Terminal (NMT)		2,000		1,600
Internet Protocol Version 6			1,000	0
Program delay: EHF SATCOM Terminals			-15,000	0
196 INFORMATION SYSTEMS SECURITY PROGRAM	**28,393**	**32,393**	**31,893**	**34,393**
Tactical Key Loader		4,000		3,200
Universal Description, Discovery and Integration			3,500	2,800
203 TACTICAL UNMANNED AERIAL VEHICLES	**50,185**	**59,185**	**54,185**	**62,585**
Coastal Airship Surveillance Demonstrator		2,000		1,600
Micro-munitions Interface for Tactical Unmanned Systems		4,000		4,000
Unmanned Air Systems "Open Architecture" Migration		3,000		3,000
Advanced Airship Flying Laboratory			2,000	2,000
Skybus 80k and 130k LTA-UAS Multirole Technologies			2,000	1,800
205 AIRBORNE RECONNAISSANCE SYSTEMS	**50,677**	**56,977**	**55,677**	**59,717**
EP-3E Environmental Cooling System Upgrade		6,300		5,040
Fusion, Exploitation, Algorithm, Targeting, High-Altitude Reconnaisance (FEATHAR)			5,000	4,000
206 MANNED RECONNAISSANCE SYSTEMS	**22,488**	**22,488**	**23,988**	**23,688**
Collective Aperture Multi-Band Sensor System			1,500	1,200
207 DISTRIBUTED COMMON GROUND SYSTEMS	**19,350**	**21,350**	**19,350**	**21,350**
Distributed Common Ground System- Navy/AFATDS Interoperability		1,000		1,000
Maritime Intelligence Integration for Shared Situational Awareness		1,000		1,000
208 AERIAL COMMON SENSOR (ACS)	**16,606**	**6,606**	**16,606**	**6,606**
Program restructure		-10,000		-10,000
212 INDUSTRIAL PREPAREDNESS	**56,445**	**58,445**	**56,445**	**58,445**
Improved Advanced Watertight Door (IAWD) for Navy Surface Ships		1,000		1,000
U.S. Navy Nuclear Power Plant and Ship Propulsion Shaft Manufacturing Improvement Project		1,000		1,000
213 MARITIME TECHNOLOGY (MARITECH)	**0**	**1,500**	**16,000**	**14,000**
Enhanced Tracking and Asset Control (ETAC)		1,500		1,200
National Shipbuilding Research Program			15,000	12,000
Navy Automatic Identification Technology (AID) Engineering Support			1,000	800

BONE MARROW REGISTRY

The conferees reiterate the direction proposed by the House regarding funding provided for the C.W. Bill Young Bone Marrow Donor Recruitment and Research program.

ADVANCED PRECISION KILL WEAPONS SYSTEM

The conferees agree to provide $6,000,000 above the President's request for continued development of the Advanced Precision Kill Weapons System (APKWS) in Research, Development, Test and Evaluation, Navy. If additional funds are needed during fiscal year 2008 to ensure that sufficient funds are available to maintain progress in developing the program, the Committees on Appropriations would entertain a reprogramming request.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

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

(In thousands of dollars)

		Budget	House	Senate	Conference
	RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE				
	BASIC RESEARCH				
1	DEFENSE RESEARCH SCIENCES	258,259	265,759	268,959	274,359
2	UNIVERSITY RESEARCH INITIATIVES	104,304	104,304	123,304	120,704
3	HIGH ENERGY LASER RESEARCH INITIATIVES	12,636	12,636	12,636	12,636
	TOTAL, BASIC RESEARCH	375,199	382,699	404,899	407,699
	APPLIED RESEARCH				
4	MEDICAL DEVELOPMENT	---	8,000	---	4,700
5	MATERIALS	122,794	164,294	161,094	179,654
6	AEROSPACE VEHICLE TECHNOLOGIES	131,948	136,948	136,948	140,748
7	HUMAN EFFECTIVENESS APPLIED RESEARCH	79,856	84,856	87,856	91,056
8	AEROSPACE PROPULSION	179,161	201,461	212,961	216,961
9	AEROSPACE SENSORS	108,055	119,055	113,055	122,055
10	MULTI-DISCIPLINARY SPACE TECHNOLOGY	---	2,000	---	1,600
11	SPACE TECHNOLOGY	109,566	114,416	130,466	126,816
12	CONVENTIONAL MUNITIONS	57,804	59,304	57,804	59,004
13	DIRECTED ENERGY TECHNOLOGY	54,883	57,883	54,883	57,283
14	COMMAND CONTROL AND COMMUNICATIONS	116,705	125,105	118,705	122,205
16	HIGH ENERGY LASER RESEARCH	50,303	50,303	50,303	50,303
	TOTAL, APPLIED RESEARCH	1,011,075	1,123,625	1,124,075	1,172,385
	ADVANCED TECHNOLOGY DEVELOPMENT				
20	ADVANCED MATERIALS FOR WEAPON SYSTEMS	39,730	65,230	51,730	72,030
21	ADVANCED AEROSPACE SENSORS	55,549	65,549	55,549	64,349
22	AEROSPACE TECHNOLOGY DEV/DEMO	64,922	29,822	64,922	67,322
23	AEROSPACE PROPULSION AND POWER TECHNOLOGY	117,990	125,990	140,890	143,490
24	CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOGY	28,558	37,258	34,558	38,658
25	ELECTRONIC COMBAT TECHNOLOGY	23,743	26,743	25,843	27,943
28	ADVANCED SPACECRAFT TECHNOLOGY	78,704	98,004	93,004	101,304
29	GLOBAL POSITIONING SYSTEM (GPS) EXTENSION PROGRAM	70,758	---	---	---
30	MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	5,237	7,237	46,737	42,437

(In thousands of dollars)

		Budget	House	Senate	Conference
32	CONVENTIONAL WEAPONS TECHNOLOGY	16,904	18,904	16,904	18,504
33	ADVANCED WEAPONS TECHNOLOGY	43,999	43,999	74,999	74,899
34	C3I ADVANCED DEVELOPMENT	27,357	29,357	32,257	33,057
36	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	3,815	3,815	3,815	3,815
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	577,266	551,908	641,208	687,808
	DEMONSTRATION & VALIDATION				
40	INTELLIGENCE ADVANCED DEVELOPMENT	4,930	5,930	4,930	5,930
41	PHYSICAL SECURITY EQUIPMENT	466	2,466	3,466	2,866
42	NAVSTAR GLOBAL POSITIONING SYSTEM III	587,226	507,226	437,226	487,226
43	ADVANCED EHF MILSATCOM (SPACE)	603,179	603,179	603,179	603,179
44	POLAR MILSATCOM (SPACE)	178,754	178,754	178,754	178,754
45	SPACE CONTROL TECHNOLOGY	37,604	62,604	42,604	66,604
46	COMBAT IDENTIFICATION TECHNOLOGY	26,054	26,054	26,054	26,054
47	NATO RESEARCH AND DEVELOPMENT	4,280	4,280	4,280	4,280
48	INTERNATIONAL SPACE COOPERATIVE R&D	619	619	619	619
49	TRANSFORMATIONAL SATCOM (TSAT)	963,585	963,585	763,585	813,585
50	INTEGRATED BROADCAST SERVICE	21,192	21,192	21,192	21,192
51	INTERCONTINENTAL BALLISTIC MISSILE	26,519	32,519	26,519	31,319
52	WIDEBAND GAPFILLER SYSTEM RDT&E (SPACE)	19,213	19,213	19,213	19,213
53	SPACE-BASED RADAR	---	186,000	---	---
54	POLLUTION PREVENTION (DEM/VAL)	2,838	8,838	7,838	11,038
55	JOINT PRECISION APPROACH AND LANDING SYSTEMS	7,544	7,544	7,544	7,544
60	COMMON AERO VEHICLE (CAV)	32,806	37,806	---	4,000
61	OPERATIONALLY RESPONSIVE SPACE	87,032	107,032	87,032	97,132
63	NATIONAL POLAR-ORBITING OPERATIONAL ENVIRONMENTAL SAT.	334,871	334,871	334,871	334,871
	TOTAL, DEMONSTRATION & VALIDATION	2,938,712	3,109,712	2,568,906	2,715,406
	ENGINEERING & MANUFACTURING DEVELOPMENT				
64	GLOBAL BROADCAST SERVICE (GBS)	29,407	29,407	29,407	29,407
66	NUCLEAR WEAPONS SUPPORT	20,319	20,319	20,319	20,319

(In thousands of dollars)

		Budget	House	Senate	Conference
67	B-1B	159,126	144,126	169,126	153,126
68	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	12,622	12,622	15,622	15,022
70	B-2 ADVANCED TECHNOLOGY BOMBER	244,019	289,219	292,019	297,819
71	PERSONNEL RECOVERY SYSTEMS	290,059	190,059	98,059	105,000
72	ELECTRONIC WARFARE DEVELOPMENT	101,649	103,149	103,649	103,249
74	PHYSICAL SECURITY EQUIPMENT	34	34	34	34
75	SMALL DIAMETER BOMB (SDB)	145,191	145,191	145,191	145,191
76	COUNTERSPACE SYSTEMS	53,412	53,412	65,412	64,412
77	SPACE SITUATION AWARENESS SYSTEMS	187,804	197,604	187,804	197,604
78	AIRBORNE ELECTRONIC ATTACK	20,007	20,007	20,007	20,007
79	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD	587,004	614,604	587,004	587,004
80	ALTERNATIVE INFRARED SPACE SYSTEM (AIRSS)	230,887	75,887	75,000	75,887
82	ARMAMENT/ORDNANCE DEVELOPMENT	1,985	3,485	1,985	3,185
83	SUBMUNITIONS	1,988	1,988	1,988	1,988
84	AGILE COMBAT SUPPORT	10,623	12,623	10,623	12,223
86	LIFE SUPPORT SYSTEMS	12,649	13,649	12,649	13,649
87	COMBAT TRAINING RANGES	17,657	17,657	17,657	17,657
88	INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A)	189	13,189	8,189	17,589
89	INTELLIGENCE EQUIPMENT	1,469	1,469	5,969	5,069
91	JOINT STRIKE FIGHTER (JSF)	1,780,874	2,137,374	1,879,324	2,004,324
94	RDT&E FOR AGING AIRCRAFT	17,021	19,021	19,021	20,621
96	TEST AND EVALUATION SUPPORT	3,044	3,044	3,044	3,044
96	LINK-16 SUPPORT AND SUSTAINMENT	199,363	196,363	199,363	196,363
98	E-10 SQUADRONS	39,703	39,703	39,703	39,703
99	SINGLE INTEGRATED AIR PICTURE (SIAP)	4,976	4,976	4,976	4,976
100	FULL COMBAT MISSION TRAINING	87,096	72,096	87,096	72,096
102	JOINT CARGO AIRCRAFT (JCA)	42,368	42,368	---	21,000
103	CV-22	16,688	16,688	16,688	16,688
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	4,319,233	4,491,333	4,116,928	4,264,256

(In thousands of dollars)

	Budget	House	Senate	Conference
RDT&E MANAGEMENT SUPPORT				
104 THREAT SIMULATOR DEVELOPMENT	39,892	39,892	39,892	39,892
105 MAJOR T&E INVESTMENT	59,064	61,064	63,564	64,264
106 RAND PROJECT AIR FORCE	30,999	30,999	30,999	30,999
109 INITIAL OPERATIONAL TEST & EVALUATION	30,203	30,203	30,203	30,203
110 TEST AND EVALUATION SUPPORT	737,558	712,558	737,558	722,558
111 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	15,145	20,145	15,145	19,145
112 SPACE TEST PROGRAM (STP)	47,430	47,430	47,430	47,430
113 FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL	59,131	60,131	59,131	60,131
114 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT	30,865	34,865	30,865	34,065
117 INTERNATIONAL ACTIVITIES	4,041	4,041	4,041	4,041
TOTAL, RDT&E MANAGEMENT SUPPORT	1,054,328	1,041,328	1,058,828	1,052,728
OPERATIONAL SYSTEMS DEVELOPMENT				
118 ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	10,930	10,930	10,930	10,930
120 B-52 SQUADRONS	41,916	47,416	41,916	46,416
122 AIR-LAUNCHED CRUISE MISSILE (ALCM)	4,672	4,672	4,672	4,672
123 STRAT WAR PLANNING SYSTEM - USSTRATCOM	20,340	20,340	20,340	20,340
124 NIGHT FIST - USSTRATCOM	5,296	5,296	5,296	5,296
126 REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION	23,495	23,495	23,495	23,495
127 WARFIGHTER RAPID ACQUISITION PROCESS (WRAP) RAPID TRAN	14,245	14,245	14,245	14,245
128 MQ-9 UAV	61,069	61,069	65,069	64,269
129 A-10 SQUADRONS	1,963	1,963	1,963	1,963
130 F-16 SQUADRONS	90,620	90,620	70,620	70,620
131 F-15E SQUADRONS	101,251	114,251	104,251	115,251
133 F-22 SQUADRONS	743,593	379,563	611,393	611,393
135 TACTICAL AIM MISSILES	7,927	7,927	7,927	7,927
136 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	36,838	36,838	33,638	33,638
139 AF TENCAP	11,526	11,526	11,526	11,526
141 COMPASS CALL	4,603	4,603	9,603	8,603
142 AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	139,042	139,042	139,042	139,042

(In thousands of dollars)

	Budget	House	Senate	Conference
144 JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)	12,152	12,152	12,152	12,152
145 AIR AND SPACE OPERATIONS CENTER (AOC)	111,557	111,557	101,057	101,057
146 CONTROL AND REPORTING CENTER (CRC)	16,505	16,505	25,005	25,005
147 AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)	152,721	152,721	152,721	152,721
148 TACTICAL AIRBORNE CONTROL SYSTEMS	3,387	3,387	3,387	3,387
149 ADVANCED COMMUNICATIONS SYSTEMS	33,584	33,584	33,584	33,584
150 EVALUATION AND ANALYSIS PROGRAM	650,608	652,608	650,608	650,608
152 THEATER BATTLE MANAGEMENT (TBM) C4I	9,961	9,961	9,961	9,961
153 FIGHTER TACTICAL DATA LINK	39,545	39,545	39,545	39,545
154 BOMBER TACTICAL DATA LINK	37,130	37,130	37,130	37,130
155 C2ISR TACTICAL DATA LINK	1,809	1,809	1,809	1,809
156 COMMAND AND CONTROL (C2) CONSTELLATION	45,049	45,049	45,049	45,049
157 JOINT SURVEILLANCE AND TARGET ATTACK RADAR SYSTEM	65,924	82,924	65,924	82,724
158 SEEK EAGLE	22,969	22,969	22,969	22,969
160 USAF MODELING AND SIMULATION	23,044	25,044	24,244	25,844
161 WARGAMING AND SIMULATION CENTERS	6,490	6,490	6,490	6,490
162 DISTRIBUTED TRAINING AND EXERCISES	7,522	7,522	7,522	7,522
163 MISSION PLANNING SYSTEMS	105,371	105,371	105,371	105,371
164 INFORMATION WARFARE SUPPORT	12,111	12,111	12,111	12,111
165 SPECIAL EVALUATION SYSTEM	760,312	760,312	760,312	770,412
167 COBRA BALL	---	---	2,500	2,500
171 E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC)	19,529	19,529	19,529	19,529
172 AIR FORCE COMMUNICATIONS (AIRCOM)	2,022	2,022	2,022	2,022
173 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK	103,846	83,846	88,846	88,846
174 INFORMATION SYSTEMS SECURITY PROGRAM	229,657	187,610	210,457	187,810
175 GLOBAL COMBAT SUPPORT SYSTEM	10,631	12,131	10,631	11,831
176 GLOBAL COMMAND AND CONTROL SYSTEM	3,397	14,897	3,397	12,597
177 JOINT COMMAND AND CONTROL PROGRAM (JC2)	5,841	5,841	5,841	5,841
178 MILSATCOM TERMINALS	388,491	388,491	388,491	388,491
180 AIRBORNE SIGINT ENTERPRISE	139,627	124,627	147,627	136,027

(In thousands of dollars)

	Budget	House	Senate	Conference
183 GLOBAL AIR TRAFFIC MANAGEMENT (GATM)	6,681	6,681	6,681	6,681
184 SATELLITE CONTROL NETWORK (SPACE)	27,256	27,256	27,256	27,256
185 WEATHER SERVICE	39,747	40,747	40,747	41,347
186 AIR TRAFFIC CONTROL, APPROACH, & LANDING SYSTEM (ATC)	4,672	5,392	7,672	8,392
187 AERIAL TARGETS	7,376	7,376	7,376	7,376
190 SECURITY AND INVESTIGATIVE ACTIVITIES	829	829	829	829
194 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)	93,267	156,467	156,267	156,467
195 NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL)	120,931	120,931	120,931	120,931
197 SPACE AND MISSILE TEST AND EVALUATION CENTER	3,089	3,089	3,089	3,089
198 SPACE WARFARE CENTER	1,678	1,678	1,678	1,678
199 SPACELIFT RANGE SYSTEM (SPACE)	27,300	27,300	27,300	27,300
200 INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS	1,134	1,134	1,134	1,134
202 AIRBORNE RECONNAISSANCE SYSTEMS	64,869	64,869	64,869	64,869
203 MANNED RECONNAISSANCE SYSTEMS	12,672	15,672	17,672	19,072
204 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	107,117	108,117	107,117	107,917
205 PREDATOR UAV (JMIP)	22,296	25,796	35,296	33,996
206 GLOBAL HAWK UAV	298,501	260,501	291,501	276,501
207 NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA)	8,641	8,641	8,641	8,641
208 INTELLIGENCE SUPPORT TO INFORMATION WARFARE	5,362	5,362	5,362	5,362
209 NCMC - TW/AA SYSTEM	11,882	11,882	11,882	11,882
211 NUDET DETECTION SYSTEM (SPACE)	38,974	38,974	38,974	38,974
213 NATIONAL SECURITY SPACE OFFICE	10,821	10,821	10,821	10,821
214 SPACE SITUATION AWARENESS OPERATIONS	23,980	23,980	23,980	23,980
215 NASS, IO TECHNOLOGY INTEGRATION & TOOL DEV	15,681	15,681	15,681	15,681
216 SHARED EARLY WARNING (SEW)	3,152	3,152	3,152	3,152
217 C-130 AIRLIFT SQUADRON	188,069	192,069	251,569	251,669
218 C-5 AIRLIFT SQUADRONS	203,585	185,585	178,585	180,185
219 C-17 AIRCRAFT	181,734	181,734	181,734	181,734
220 C-130J PROGRAM	74,223	74,223	74,223	74,223

(In thousands of dollars)

	Budget	House	Senate	Conference
222 LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)	19,324	19,324	19,324	19,324
223 KC-135S	8,766	8,766	8,766	8,766
224 KC-10S	36,790	13,790	13,790	13,790
225 KC-135 TANKER REPLACEMENT	314,454	114,454	314,454	114,454
226 OPERATIONAL SUPPORT AIRLIFT	4,868	4,868	4,868	4,868
228 SPECIAL TACTICS / COMBAT CONTROL	5,225	5,225	8,825	8,125
229 DEPOT MAINTENANCE (NON-IF)	1,510	1,510	1,510	1,510
230 ACQUISITION AND MANAGEMENT SUPPORT	22,317	22,317	22,317	22,317
231 INDUSTRIAL PREPAREDNESS	39,906	48,906	45,906	50,506
233 LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	114,176	115,676	114,176	115,376
234 SUPPORT SYSTEMS DEVELOPMENT	11,076	17,576	22,576	34,076
235 JOINT NATIONAL TRAINING CENTER	3,128	---	3,128	3,128
236 OTHER PERSONNEL ACTIVITIES	115	115	115	115
237 JOINT PERSONNEL RECOVERY AGENCY	5,377	5,377	5,377	5,377
238 SERVICE-WIDE SUPPORT (NOT OTHERWISE ACCOUNTED FOR)	6,495	6,495	6,495	6,495
239 CIVILIAN COMPENSATION PROGRAM	8,070	8,070	8,070	8,070
240 PERSONNEL ADMINISTRATION	16,832	16,832	16,832	16,832
241 FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	47,105	37,105	47,105	37,105
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	6,611,171	6,023,886	6,557,871	6,371,944
999 CLASSIFIED PROGRAMS	9,824,956	9,439,426	9,598,126	9,583,245
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AIR FORCE	26,711,940	26,163,917	26,070,841	26,255,471

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1		Budget Request	House	Senate	Conference
1	**DEFENSE RESEARCH SCIENCES**	**258,259**	**265,759**	**268,959**	**274,359**
	Chabot Space and Science Center		1,000		800
	Process Integrated Mechanism for Human-Computer Collaboration and Coordination		1,000		1,000
	Fully-Integrated Solar-Powered Interior Lighting Technology (Note: Senate included funding in Line 5)		1,000		1,600
	Nanotechnology based biosensors and bio-threat detectors		2,500		2,000
	Hybrid Materials for Thermal Management in Thin Films and Bulk Composites		2,000	1,000	1,600
	Coal Transformation Laboratory			1,000	1,000
	Development and Validation of Advanced Design Technologies for Hypersonic Research			3,000	2,400
	High Energy Laser for Detection, Inspection and Non-destructive Testing (Note: House included funding in RDT&E, Defense-Wide, Line 2)			5,000	5,000
	UNR-Millimeter Wave-Based Fatigue Countermeasure Technology			700	700
2	**UNIVERSITY RESEARCH INITIATIVES**	**104,304**	**104,304**	**123,304**	**120,704**
	Battlespace: Reducing Military Decision Cycles			3,000	2,400
	High Temperature Hydrogen Energy Production Facility			1,000	1,000
	Partnership in Innovative Preparation for Educators and Students (PIPES) and the Space Education Consortium (SEC)			2,000	1,600
	Secure Grids for Network Centric Operations			3,000	2,400
	University Research Initiatives			10,000	8,000
	Frank R. Seaver Science and Engineering Complex (Transferred from Line 4)		0		1,000
4	**MEDICAL DEVELOPMENT**	**0**	**8,000**	**0**	**4,700**
	Light Emitting Diode (LED) Wound Healing of Oral and Cutaneous Lesions (Transferred to Defense Health Program)		1,500		0
	Tricorder Detector		1,500		1,200
	National Center for Integrated Civilian-Military Domestic Disaster Medical Response (Yale New Haven Health System)		2,500		2,000
	Comprehensive Clinical Phenotyping and Genetic Mapping for the Discovery of Autism Susceptibility Gene		1,500		1,500
	Frank R. Seaver Science and Engineering Complex (Transferred to Line 2)		1,000		0
5	**MATERIALS**	**122,794**	**164,294**	**161,094**	**179,654**
	Chrome Free Environmentally Friendly Corrosion Protection for Aircraft		2,000		1,600
	Free Electron Laser Capabilities for Aerospace Microfabrication		2,000		1,600
	Intelligent Carbon Nanotube Based Computer Devices for Space Applications		6,000		4,800
	Aircraft Active Corrosion Protective Compounds		1,000		1,000
	Accelerated Insertion of Advanced Materials and Certification for Military Aircraft Structure Material		1,500	3,500	2,800
	Blast Resistant Concrete Products		2,000		1,600

R-1		Budget Request	House	Senate	Conference
	Large Area, APVT Materials Development for High Power Devices		2,000		1,600
	Plasma-Sphere Array for Flexible Electronics		2,000		1,600
	Advanced Carbon Fiber Research and Testing Initiative		3,500	3,000	3,000
	Institute for Science and Engineering Simulation (ISES) / Aircraft Fatigue Modeling and Simulation		2,500	2,500	2,500
	Science for Sustainment Initiative to Improve Mission		2,000		1,600
	ONAMI Safer Nanomaterials and Nanomanufacturing		2,000	4,000	3,200
	Pennsylvania Nanomaterials Commercialization Center		2,000		1,600
	High Temperature Aerogel Materials for Global Strike Vehicles		2,000		1,600
	Polymer Nanocomposites for Energy Storage and Pulsed Power		1,000		800
	Carbon Nano-Materials for Advanced Aerospace Applications, AQW Rice University		2,000		1,600
	University of Houston Consortium for Nanomaterials for Aerospace Commerce and Technology (CONTACT)		3,000	2,000	2,400
	Gallium Nitride (GaN) RF Power Technology		2,000		1,600
	Life Shield Blast Resistant Panels		1,000		1,000
	Affordable structural and non-structural materials for space - program growth			-3,500	-1,500
	Advanced Aerospace Carbon Foam Heat Exchangers		1,000	2,000	1,600
	Advanced Engineered Non-Linear Optical Materials for Critical Wavelengths			1,200	960
	Air Force Minority Leaders Program			7,500	6,000
	Durable Hybrid Coatings for Aircraft Systems			1,500	1,200
	Fire and Blast Resistant Materials for Force Protection			2,000	1,600
	Fully Integrated Solar-Powered Interior Lighting Technology (Transferred to Line 1)			2,000	0
	Nanocomposites for Lightning Protection of Composite Airframe Structures			2,000	1,600
	Nanotechnology research			5,000	5,000
	Polymer Stress and Sensor Damage Sensors for Composites			3,600	2,900
6	**AEROSPACE VEHICLE TECHNOLOGIES**	**131,948**	**136,948**	**136,948**	**140,748**
	Cognitive UAV		1,000		1,000
	Advanced Aerospace Heat Exchangers (Transferred to Line 5)		1,000		0
	Modeling and Simulation for Rapid Integration and Technology Evaluation		1,000		1,000
	Advancement of Intelligent Aerospace Systems (AIAS) for the U.S. Air Force		2,000		2,000
	Characterization of Airborne Environment for Tactical Lasers			4,000	4,000
	Single-Mode Optical Connectors for Advanced Air Vehicles			1,000	800
7	**HUMAN EFFECTIVENESS APPLIED RESEARCH**	**79,856**	**84,856**	**87,856**	**91,056**
	Warfighter Pocket XP-Next Gen		2,000		1,600
	Imaging Tools for Human Performance Enhancement and Diagnostics		2,000		1,600
	Ubiquitous RFID Chem/Bio Detection		1,000		800
	Component Object Model (COM) Attitude Control System Simulation/Trainer			4,000	4,000
	Solid Electrolyte Oxygen Separator			4,000	3,200

R-1	Budget Request	House	Senate	Conference
8 AEROSPACE PROPULSION	**179,161**	**201,461**	**212,961**	**216,961**
Development & Testing of Advanced Paraffin-based Hybrid Rockets for Space Applications		2,000		1,600
Center for Solar Electricity and Hydrogen		3,000		2,400
LOX/Methane Cooled Upper Stage Rocket Engine		1,000		1,000
Modified F-22 Maintenance-Free Nickel Cadmium Aircraft Batteries for the F-16		1,800	1,000	1,400
Advanced Vehicle and Propulsion Center		2,000		1,600
Integrated Electrical Starter/Generator		2,500		2,000
Hydrocarbon Boost Technology Demonstrator		1,500		1,200
THEMA - Thermal and Energy Management for Aerospace		3,500		3,500
WASH Oxygen Sensor and Cell Level Battery Controller		1,500		1,200
Active Combustion Control System for Military Aircraft		3,500	4,000	3,500
Advanced Fuel Cell Based Power System for Small UAVs			800	800
Alternative Energy Research			20,000	10,000
High Energy Superior Lithium Battery Technology			6,000	6,000
VDVP for UAV/UCAV Aircraft Engines			2,000	1,600
9 AEROSPACE SENSORS	**108,055**	**119,055**	**113,055**	**122,055**
Optical Maximum Entropy Verification (OMEV)		1,000		800
Sensor Fusion		2,000		1,600
OPAL (Optically Pumped Atomic Laser for Defense)		4,000		3,200
Center for Advanced Sensor and Communications Antennas		1,000		1,000
Low Voltage, Wideband Electro-Optic Polymer Modulator		3,000		2,400
Super-Resolution Sensor System (S3)			5,000	5,000
10 MULTI-DISCIPLINARY SPACE TECHNOLOGY	**0**	**2,000**	**0**	**1,600**
Integrated Propulsion Analysis Tool (IPAT)		2,000		1,600
11 SPACE TECHNOLOGY	**109,566**	**114,416**	**130,466**	**126,816**
Advanced Modular Avionics for Operationally Responsive Space Use		2,000	2,500	2,000
Multicontinuum Technology for Space Structures		2,000	2,000	2,000
Mission Design and Analysis Tool		500		500
Shielding Rocket Payloads		350	400	350
Deployable Structure Systems for Space			2,000	1,600
Field Programmable Gate Arrays			2,000	1,600
HAARP			4,000	3,200
High Energy Matter Space Propulsion Initiative (Transferred to RDT&E, Army, Line 56)			1,000	0
Microsatellite Target System			2,000	1,600
Nuclear Test Seismic Research			3,000	2,400
Reconfigurable Electronics and Non-Volatile Memory Research			2,000	2,000
12 CONVENTIONAL MUNITIONS	**57,804**	**59,304**	**57,804**	**59,004**
Advanced Nanotube Micro-Munition Weapon Technology Initiative		1,500		1,200
13 DIRECTED ENERGY TECHNOLOGY	**54,883**	**57,883**	**54,883**	**57,283**
Ceramics for Next-Generation Tactical Laser Systems		3,000		2,400

R-1		Budget Request	House	Senate	Conference
14	COMMAND CONTROL AND COMMUNICATIONS	116,705	125,105	118,705	122,205
	Compact Laser Terminal for Airborne Network Centric Warfare		2,500		2,000
	Compact Coherent LIDAR Transceiver System		2,000		0
	Adaptive Optics Lasercom		2,000		1,600
	Cyber Attack Mitigation and Exploitation Laboratory II (CAMEL II)		1,900	2,000	1,900
20	ADVANCED MATERIALS FOR WEAPON SYSTEMS	39,730	65,230	51,730	72,030
	Continuous Integrated Vehicle Health Monitoring System		1,500		1,200
	Encapsulated Ballistic Protection System (EBPS)		1,000		1,000
	Coated Field Repair (2K Gun)		1,000		1,000
	National Aerospace Leadership Initiative		20,000		16,000
	EMI Grid Fabrication Technology		2,000		1,600
	Aircraft Evaluation Readiness Initiative (AERI)			2,000	2,000
	Hybrid Bearings			3,000	2,400
	Metals Affordability Initiative			5,000	5,000
	Strategic Bio-fuels Supply Program			2,000	1,600
	Materials Integrity Management Research (Transferred from Senate General Provision 8108)				500
21	ADVANCED AEROSPACE SENSORS	55,549	65,549	55,549	64,349
	TacNode-Tactical Airborne Communications Node		4,000		3,200
	Active Unmanned Air Vehicle (UAV) Phenomenology (AUP) & ART Technology Transition		4,000		4,000
	Moving Target Strike		2,000		1,600
22	AEROSPACE TECHNOLOGY DEVELOPMENT/DEMONSTRATION	64,922	29,822	64,922	67,322
	Advanced Composite Cargo Aircraft Demonstration		-35,000		0
	Transfer to O&M, Defense-Wide for CE2T2		-3,100		0
	Advance Aerospace Titanium Structures Initiative		2,000		1,600
	Big Antennas Small Structures Efficient Tactical (BASSET) UAV		1,000		800
23	AEROSPACE PROPULSION AND POWER TECHNOLOGY	117,990	125,990	140,890	143,490
	FRESH (Field Renewable Energy System Hybrids) Li Ion Battery Program		1,000		1,000
	Versatile Affordable Advanced Turbine Engine (VAATE) -- Small Turbofan (STF)		4,500		3,600
	Ceramic Matrix Composite (CMC) Airfoil Capability Enhancements		1,000		1,000
	Texas Research Institute for Environmental Studies		1,500		1,200
	Bi-Polar Wafer-cell Nickel Metal Hydride Battery			2,000	2,000
	Family of Motors Capability Demonstration			8,000	6,400
	Silicon Carbide Power Electronics for More Electric Aircraft			6,900	5,500
	Versatile Affordable Advanced Turbine Engine, High Speed Turbine Engine Demonstrator			6,000	4,800
24	CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOGY	28,558	37,258	34,558	38,658
	Variable Transmittance Visor		1,000		1,000
	Virtual Medical Trainer		3,000		2,400
	Battlefield Automatic Life Status Monitor (BALSM)		2,000		1,600

R-1		Budget Request	House	Senate	Conference
	Low Cost/Improved Performance for Helmet Display and Life Support Technologies		2,700	3,000	2,700
	Water Purification with Fused Carbon Nanotube Nanostructured Material			3,000	2,400
25	**ELECTRONIC COMBAT TECHNOLOGY**	**23,743**	**26,743**	**25,843**	**27,943**
	BLADES (Real-Time Battlefield Laser Detection System)		2,000		1,500
	Innovative Polymeric Materials for Three-Dimensional (3-D) Microdevice Construction		1,000		1,000
	Advanced Threat Alert Advanced Technology Demonstration			2,100	1,700
28	**ADVANCED SPACECRAFT TECHNOLOGY**	**78,704**	**98,004**	**93,004**	**101,304**
	Small Low Cost Reconnaissance Spacecraft		2,300		1,800
	Micromachined Switches for Next Generation Modular Satellites		3,000		2,400
	Microsatellite Serial Manufacturing		2,000		1,600
	Satellite Coherent Optical Receiver (SCORE)		2,500		2,000
	Space Situational Awareness		1,500		1,200
	Systematic Approach to Radiation Hardened Electronics (SHARE)		2,000	3,000	2,400
	Intelligent Free Space Optical Satellite Communications Node		1,000	2,000	1,600
	Radially Segmented Launch Vehicle (RSLV) Risk Reduction Program		2,000		1,600
	Multi-mission Advanced Sensor System (MASS) (Transferred to RDT&E, Defense-Wide, Line 28)		3,000		0
	Advanced space-based infrared technology and hardened focal plane arrays program growth			-1,500	-1,500
	COTS Technology for Space Situational Awareness			2,500	2,000
	Large Automated Production of Expendable Launch Structures (LAPELS)			4,300	4,300
	Thin Film Amorphous Solar Arrays			4,000	3,200
29	**GLOBAL POSITIONING SYSTEM (GPS) EXTENSION PROGRAM**	**70,758**	**0**	**0**	**0**
	Transferred to RDTE, Navy, Line 17		-70,758	-70,758	-70,758
30	**MAUI SPACE SURVEILLANCE SYSTEM (MSSS)**	**5,237**	**7,237**	**46,737**	**42,437**
	High Accuracy Network Determination System (HANDS)		2,000	6,500	5,200
	Maui Space Surveillance System (MSSS) Operations & Research			24,000	23,000
	PanSTARRS			11,000	9,000
32	**CONVENTIONAL WEAPONS TECHNOLOGY**	**16,904**	**18,904**	**16,904**	**18,504**
	Body Armor Improved Ballistic Protection		2,000		1,600
33	**ADVANCED WEAPONS TECHNOLOGY**	**43,999**	**43,999**	**74,999**	**74,899**
	All Electric Laser			2,000	1,900
	Applications of LIDAR to Vehicles with Analysis (ALVA)			9,000	8,400
	Real-time Optical Surveillance Applications			2,000	1,600
	Satellite Active Imaging National Testbed Program			3,000	2,400
	Space Situational Awareness research			15,000	15,000
	Compound Zoom for Airborne Reconnaissance (CZAR) (Transferred from Line 150)				1,600

R-1		Budget Request	House	Senate	Conference
34	**C3I ADVANCED DEVELOPMENT**	**27,357**	**29,357**	**32,257**	**33,057**
	Interoperability Network to Fuse and Exchange Real-Time Information		1,000		800
	Collaboration Gateway		1,000		1,000
	Massively Parallel Optical Interconnects for Battlespace Information Exchange			4,900	3,900
40	**INTELLIGENCE ADVANCED DEVELOPMENT**	**4,930**	**5,930**	**4,930**	**5,930**
	Multilingual Text Mining Platform for Intelligence Analysts		1,000		1,000
41	**PHYSICAL SECURITY EQUIPMENT**	**466**	**2,466**	**3,466**	**2,866**
	Tactical Automated Security System (TASS), Advanced Communications Module (ACM)		2,000	3,000	2,400
42	**NAVSTAR GLOBAL POSITIONING SYSTEM III**	**587,226**	**507,226**	**437,226**	**487,226**
	GPS III		-80,000	-150,000	-100,000
45	**SPACE CONTROL TECHNOLOGY**	**37,604**	**62,604**	**42,604**	**66,604**
	Self Aware - Space Situational Awareness		25,000		25,000
	Multi-mission Deployable Optical System			5,000	4,000
49	**TRANSFORMATIONAL SATCOM (TSAT)**	**963,585**	**963,585**	**763,585**	**813,585**
	TSAT program growth			-200,000	-150,000
51	**INTERCONTINENTAL BALLISTIC MISSILE**	**26,519**	**32,519**	**26,519**	**31,319**
	Conventional Strike Missiles Capability Demonstration		6,000		4,800
53	**SPACE-BASED RADAR**	**0**	**186,000**	**0**	**0**
	Space Radar		186,000		0
54	**POLLUTION PREVENTION (DEMONSTRATION/VALIDATION)**	**2,838**	**8,838**	**7,838**	**11,038**
	Assessment of Alternative Energy for Aircraft Ground Equipment (AGE)		1,000	3,000	2,400
	Transforming Waste Plastics into Alternative Fuels		1,000		1,000
	Transformation and Modernization of Air Force Weapons Systems		3,000		2,400
	Microcomposite Coatings for Chrome Replacement		1,000		800
	02 Diesel Air Quality Project			2,000	1,600
60	**COMMON AERO VEHICLE (CAV)**	**32,806**	**37,806**	**0**	**4,000**
	Ballistic Missile Technology		5,000		4,000
	CAV (HTV and CSM) - transfer to RDT&E, Defense-Wide, Line 100A			-32,806	-32,806
61	**OPERATIONALLY RESPONSIVE SPACE**	**87,032**	**107,032**	**87,032**	**97,132**
	Operationally Responsive Space		20,000		6,100
	Low Earth Orbit Nanosatellite Integrated Defense Autonomous Systems (Transfer from RDT&E Army, Line 55)				4,000
67	**B-1B**	**159,126**	**144,126**	**169,126**	**153,126**
	Program execution - Vertical Situation Display		-15,000		-15,000
	B-1 Bomber 16 Carry Adapter			10,000	9,000
	Smart-Bomb Rack Unit (S-BRU) Upgrade (Transfer from Aircraft Procurement, Air Force, Line 24)				4,560

R-1		Budget Request	House	Senate	Conference
68	**SPECIALIZED UNDERGRADUATE FLIGHT TRAINING**	**12,622**	**12,622**	**15,622**	**15,022**
	AT-6B for the Air National Guard			3,000	2,400
70	**B-2 ADVANCED TECHNOLOGY BOMBER**	**244,019**	**289,219**	**292,019**	**297,819**
	AF Requested transfer for Radar Modernization Program		38,000	38,000	38,000
	Small Diameter Bomb		7,200		5,800
	Massive Ordnance Penetrator for B-2			10,000	10,000
71	**PERSONNEL RECOVERY SYSTEMS**	**290,059**	**190,059**	**98,059**	**105,000**
	Contract award delay		-100,000	-192,000	-86,059
	Transfer to Line 57, Aircraft Procurement, Air Force, only for H-60 upgrades				-99,000
72	**ELECTRONIC WARFARE DEVELOPMENT**	**101,649**	**103,149**	**103,649**	**103,249**
	Rapid Replacement of Mission Critical Logistics Electronic Components		1,500	2,000	1,600
76	**COUNTERSPACE SYSTEMS**	**53,412**	**53,412**	**65,412**	**64,412**
	Space Control Test Capabilities			5,000	4,000
	RAIDRS Block 20 (Air Force unfunded requirement)			7,000	7,000
77	**SPACE SITUATION AWARENESS SYSTEMS**	**187,804**	**197,604**	**187,804**	**197,604**
	Space Fence		9,800		9,800
79	**SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD**	**587,004**	**614,604**	**587,004**	**587,004**
	MCSB Upgrade		27,600		0
80	**ALTERNATIVE INFRARED SPACE SYSTEM (AIRSS)**	**230,887**	**75,887**	**75,000**	**75,887**
	Program Growth		-155,000	-155,887	-155,000
82	**ARMAMENT/ORDNANCE DEVELOPMENT**	**1,985**	**3,485**	**1,985**	**3,185**
	I-1000 Warhead Technology Demonstration		1,500		1,200
84	**AGILE COMBAT SUPPORT**	**10,623**	**12,623**	**10,623**	**12,223**
	Improvised Ordnance Detonator -Advanced Development		2,000		1,600
86	**LIFE SUPPORT SYSTEMS**	**12,649**	**13,649**	**12,649**	**13,649**
	ACES II Ejection Seat Improvement		1,000		1,000
88	**INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A)**	**189**	**13,189**	**8,189**	**17,589**
	Program Engineering Interoperability Framework		2,000		1,600
	Enterprise Services for Reach Back Capabilities (ESRBC)		3,000		3,000
	MEDSTARS Integration with Global Combat Support System		2,000		1,600
	Airborne Web Services (AWS) Spiral 5		1,000		800
	Distributed Mission Interoperability Toolkit (DMIT)		5,000		4,000
	ASSET eWing and Data Fusion Technology Integration Base			5,000	4,000
	Global Awareness Presentation Services (GAPS)			3,000	2,400
89	**INTELLIGENCE EQUIPMENT**	**1,469**	**1,469**	**5,969**	**5,069**
	Electronic Warfare Modeling, Simulation and Wireless Testing Center			4,500	3,600

R-1		Budget Request	House	Senate	Conference
91	JOINT STRIKE FIGHTER (JSF)	1,780,874	2,137,374	1,879,324	2,004,324
	Alternate engine development		240,000	240,000	240,000
	Production Affordability Initiatives and Information Assurance		100,000		100,000
	Small Business Technology Insertion Program		25,000		25,000
	Excess Award Fees		-8,500	-8,550	-8,550
	Joint Strike Fighter overbilling			-133,000	-133,000
94	RDT&E FOR AGING AIRCRAFT	17,021	19,021	19,021	20,621
	Enhanced Smart Triple Ejector Rack		2,000		1,600
	Aging Landing Gear Life Extension			2,000	2,000
96	LINK-16 SUPPORT AND SUSTAINMENT	199,363	196,363	199,363	196,363
	Objective Gateway - Core contract award		-3,000		-3,000
100	FULL COMBAT MISSION TRAINING	87,096	72,096	87,096	72,096
	F-15/F-16 Simulator integration development		-15,000		-15,000
102	JOINT CARGO AIRCRAFT (JCA)	42,368	42,368	0	21,000
	Unjustified request			-42,368	-21,368
105	MAJOR T&E INVESTMENT	59,064	61,064	63,564	64,264
	FPS-16 Radar Mobilization Upgrade		2,000		1,600
	Holloman High Speed Test Track			4,500	3,600
110	TEST AND EVALUATION SUPPORT	737,558	712,558	737,558	722,558
	Execution		-25,000		-15,000
111	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	15,145	20,145	15,145	19,145
	Ballistic Missile Range Safety Technology		5,000		4,000
113	FACILITIES RESTORATION & MODERNIZATION - TEST & EVALUATION	59,131	60,131	59,131	60,131
	Internal Base Facility Energy Independence - Wind/Turbine		1,000		1,000
114	FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT	30,865	34,865	30,865	34,065
	Base Facility Energy Independence		4,000		3,200
120	B-52 SQUADRONS	41,916	47,416	41,916	46,416
	B-52 CCJ		5,000		4,000
	Common Reconfigurable Advanced Thermal Management System		500		500
128	MQ-9 UAV	61,069	61,069	65,069	64,269
	Predator Aircrew Mission Training System (PMATS) Upgrade			4,000	3,200
130	F-16 SQUADRONS	90,620	90,620	70,620	70,620
	Program Execution			-20,000	-20,000
131	F-15E SQUADRONS	101,251	114,251	104,251	115,251
	F-15 AN/ALR-56C RWR Digital Receiver Upgrade		7,000		5,600
	AESA Development and Demonstration		6,000		6,000
	F-15 AESA Radar Upgrade			3,000	2,400

R-1	Budget Request	House	Senate	Conference
133 F-22 SQUADRONS	**743,593**	**379,593**	**611,393**	**611,393**
Transfer to MilPers, Air Force, BA-5 for PCS Obligation		-364,000		-132,200
F-22A program growth			-132,200	0
136 ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMR	**36,838**	**36,838**	**33,638**	**33,638**
JDRADM premature request			-3,200	-3,200
141 COMPASS CALL	**4,603**	**4,603**	**9,603**	**8,603**
Compass Call			5,000	4,000
145 AIR AND SPACE OPERATIONS CENTER (AOC)	**111,557**	**111,557**	**101,057**	**101,057**
Space C2 Operations - Reduction for Space C2 System only - premature request			-10,500	-10,500
146 CONTROL AND REPORTING CENTER (CRC)	**16,505**	**16,505**	**25,005**	**25,005**
BCS-Mobile Upgrades - transfer from OPAF, Line 19			8,500	8,500
150 EVALUATION AND ANALYSIS PROGRAM	**650,608**	**652,608**	**650,608**	**650,608**
Compound Zoom for Airborne Reconnaissance (CZAR) (Transferred to Line 33)		2,000		0
157 JOINT SURVEILLANCE AND TARGET ATTACK RADAR SYSTEM	**65,924**	**82,924**	**65,924**	**82,724**
SYERS Demonstration		16,000		16,000
Joint STARS Electro-Optical Adjunct		1,000		800
160 USAF MODELING AND SIMULATION	**23,044**	**25,044**	**24,244**	**25,844**
MAICE		2,000		1,600
Research Visualization Facility			1,200	1,200
165 SPECIAL EVALUATION SYSTEM	**760,312**	**760,312**		**770,412**
Air Force Requested Transfer				10,100
167 COBRA BALL	**0**	**0**	**2,500**	**2,500**
Pointing and Stabilization System Upgrade for Cobra Ball			2,500	2,500
173 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK	**103,846**	**83,846**	**88,846**	**88,846**
Minuteman MEECN		-20,000	-15,000	-15,000
174 INFORMATION SYSTEMS SECURITY PROGRAM	**229,657**	**187,610**	**210,457**	**187,810**
Unjustified program growth		-45,047		-45,047
Cyber Security Defend and Attack Exercise		3,000		2,400
Program execution			-20,000	0
Montana Cyber Security Attack and Defend Exercises			800	800
175 GLOBAL COMBAT SUPPORT SYSTEM	**10,631**	**12,131**	**10,631**	**11,831**
Technical Order Optimization		1,500		1,200
176 GLOBAL COMMAND AND CONTROL SYSTEM	**3,397**	**14,897**	**3,397**	**12,597**
Carbon Nanotube Enhanced Power Sources for Space		1,500		1,200
Command & Control Service Level Management (C2SLM) program		10,000		8,000

R-1		Budget Request	House	Senate	Conference
180	**AIRBORNE SIGINT ENTERPRISE**	**139,627**	**124,627**	**147,627**	**136,027**
	Execution		-15,000		-10,000
	Ku Beyond Line of Sight Satcom Datalink for Senior Scout			8,000	6,400
185	**WEATHER SERVICE**	**39,747**	**40,747**	**40,747**	**41,347**
	TAMDAR System Integration and Performance Evaluation on Unmanned Aerial Systems		1,000		800
	Operations Risk Management Visualization and Integration			1,000	800
186	**AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM**	**4,672**	**5,392**	**7,672**	**8,392**
	Terminal Radar Approach Control (TRACON) Quick Connect Panel and Switchgear		720		720
	Terminal Surveillance and Approach System (TSAS)/ATCALS			3,000	3,000
194	**NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)**	**93,267**	**156,467**	**156,267**	**156,467**
	GPS User Equipment - transfer from RDTE, Air Force, Line 42		63,200	63,000	63,200
203	**MANNED RECONNAISSANCE SYSTEMS**	**12,672**	**15,672**	**17,672**	**19,072**
	Rivet Joint Network Interface Growth		3,000		2,400
	Combat Sent Wideband Sensor Upgrade Program			5,000	4,000
204	**DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS**	**107,117**	**108,117**	**107,117**	**107,917**
	Advanced Architecture Designs Supporting U.S. Army Net Centric Warfare (AADSUNW)		1,000		800
205	**PREDATOR UAV (JMIP)**	**22,296**	**25,796**	**35,296**	**33,996**
	Integrator Unmanned Aircraft System (UAS) Advanced Concept Development		3,500	4,000	3,500
	Center of Excellence for Defense UAV Education			4,000	3,200
	Multi-Sensor Detect, See, & Avoid			5,000	5,000
206	**GLOBAL HAWK UAV**	**298,501**	**260,501**	**291,501**	**276,501**
	Execution		-38,000		-15,000
	Transfer to APAF, Line 63 for spares			-7,000	-7,000
217	**C-130 AIRLIFT SQUADRON**	**188,069**	**192,069**	**251,569**	**251,669**
	C-130 AMP transfer from APAF, Line 47			60,000	60,000
	Air Force C-130 Propeller De-icing System Safety Upgrade Using Metal Fiber Brushes		1,000	1,500	1,200
	C-130 AIRCAT CBM+		3,000	2,000	2,400
218	**C-5 AIRLIFT SQUADRONS**	**203,585**	**185,585**	**178,585**	**180,185**
	Test program execution		-20,000		0
	Inductive Thermography Systems Inspections		2,000		1,600
	C-5 RERP - production delay and program restructure			-25,000	-25,000
224	**KC-10S**	**36,790**	**13,790**	**13,790**	**13,790**
	SDD AMP contract delay		-23,000	-23,000	-23,000
225	**KC-135 TANKER REPLACEMENT**	**314,454**	**114,454**	**314,454**	**114,454**
	Transfer to Tanker Replacement Transfer Fund		-200,000		-200,000

R-1	Budget Request	House	Senate	Conference
228 SPECIAL TACTICS / COMBAT CONTROL	**5,225**	**5,225**	**8,825**	**8,125**
Combat Casualty Management System			3,600	2,900
231 INDUSTRIAL PREPAREDNESS	**39,906**	**48,906**	**45,906**	**50,506**
Technology Insertion Demonstration and Evaluation (TIDE)		1,500		1,200
Laser Peening for Friction Stir Welded (FSW) Aerospace Structures		1,000		1,000
Production of Nanocomposites for Aerospace Applications		2,000		1,600
High Temperature, Laser Sintered Polymeric Material Digital Product Definition		2,500	2,000	2,000
Prepreg Thickness Variability Reduction Program		2,000		1,600
Rapid Manufacturing and Repair of Composite Components			2,000	1,600
Refigurable Tooling Systems			2,000	1,600
233 LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	**114,176**	**115,676**	**114,176**	**115,376**
Expert Organizational Development System (EXODUS)		1,500		1,200
234 SUPPORT SYSTEMS DEVELOPMENT	**11,076**	**17,576**	**22,576**	**34,076**
Alternative Energy Fuel Cell Power Generation		1,000	2,500	2,000
Strategic Airlift Aircraft Availability Improvements		3,500		2,800
Heavy Duty Hybrid Electric Vehicle		2,000	2,000	2,000
Alternate Carbon Stationary Fuel Cell Demonstrator			4,000	3,200
WR-ALC Special Operations Forces			3,000	3,000
Alternative Energy Research, Transfer from Line 8				10,000
235 JOINT NATIONAL TRAINING CENTER	**3,128**	**0**	**3,128**	**3,128**
Transfer to O&M, Defense-Wide for CE2T2		-3,128		0
241 FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	**47,105**	**37,105**	**47,105**	**37,105**
DEAMS Contract Award		-10,000		-10,000

COMBAT SEARCH AND RESCUE (CSAR–X)

The budget request includes $290,059,000 for development of a new platform to perform the combat search and rescue mission. Due to bid protests upheld by the Government Accountability Office, contract award for system development and demonstration has been delayed well into the summer of 2008. Due to this delay, a significant amount of the request cannot be executed during fiscal year 2008. Accordingly, the conferees reduce the request by $185,059,000. The conferees transfer $99,000,000 of this reduction to Aircraft Procurement, Air Force, for much needed modifications to the HH–60 fleet which, due to delays in the CSAR–X program, will perform the combat search and rescue mission for many years longer than planned. An explanation of the HH–60 modifications provided for is included in the Aircraft Procurement, Air Force section of the Joint Explanatory Statement of Managers.

SPACE SITUATIONAL AWARENESS

The conferees are committed to improving the nation's ability to survey space and characterize events and objects that could jeopardize our ability to operate in space. Enhancing these capabilities is critical, particularly following the Chinese anti-satellite weapon demonstration last January. The conferees agree to add over $100,000,000 above the President's budget request to accelerate our space situational awareness capabilities in programs such as the following: Self Aware Space Situational Awareness, Space Fence, Operationally Responsive Space, Space Control Test Capabilities, Rapid Identification, Detection and Reporting System (RAIDRS) Block 20, Maui Space Surveillance System, Space Situational Awareness research, Panoramic Survey Telescope and Rapid Response System, and the High Accuracy Network Discrimination System.

OPERATIONALLY RESPONSIVE SPACE

The conference agreement provides Operationally Responsive Space funds for efforts associated with responsive launch. The conferees encourage the Operationally Responsive Space program to continue to work with DARPA on the FALCON small launch vehicle program.

BALLISTIC MISSILE RANGE SAFETY TECHNOLOGY

The conferees direct that $3,000,000 of the funds made available for Spacelift Range Systems is restricted from obligation or expenditure until 30 days after notification to the congressional defense committees of the results from the Ballistic Missile Range Safety Technology certification process. This is in lieu of the $10,000,000 restriction proposed by the House.

GLOBAL BROADCAST RECEIVE SUITE

The conferees are encouraged with the progress the Air Force Global Broadcast System (GBS) Joint Program Office (JPO) has made on the development of the Suitcase Portable Receive Suite (SPRS). These efforts have led to the fielding of promising proto-

types currently undergoing tests. The conferees urge the Air Force to continue to accelerate the development, procurement and fielding of this vital system and to reduce the size and weight of the system, leading to a smaller, lighter rucksack-portable capability as soon as possible.

MEDSTARS INTEGRATION WITH THE GLOBAL COMBAT SUPPORT SYSTEM

As the exposure to non-conventional weapons increases, service members need a front line medical system to enable the rapid relay, monitoring, and assessment of the health of the combat force. Therefore, the conferees provide $1,600,000 to develop and deploy a system to provide our forces with instant access to health care information and trauma reports.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

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

(In thousands of dollars)

		Budget	House	Senate	Conference
	RESEARCH, DEVELOPMENT, TEST & EVAL, DEFENSE-WIDE				
	BASIC RESEARCH				
1	DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH..	5,000	8,000	9,000	10,900
2	DEFENSE RESEARCH SCIENCES.....	---	10,800	160,922	176,115
2	FORCE HEALTH PROTECTION.....	152,622	152,622	---	---
3	GOVERNMENT/INDUSTRY COSPONSORSHIP OF UNIVERSITY RESEAR	---	8,000	2,500	6,200
4	DEFENSE EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE	5,878	5,878	19,878	17,078
5	NATIONAL DEFENSE EDUCATION PROGRAM.....	44,372	44,372	44,372	44,372
6	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	72,003	101,253	75,403	83,663
	TOTAL, BASIC RESEARCH.....	279,875	330,925	312,075	338,328
	APPLIED RESEARCH				
	ADVANCED DEVELOPMENT INITIATIVES FUNDS.....	---	50,000	---	---
7	INSENSITIVE MUNITIONS--EXPLORATORY DEVELOPMENT.....	15,542	11,542	15,542	12,542
8	MEDICAL FREE ELECTRON LASER.....	---	2,000	3,000	2,400
9	HISTORICALLY BLACK COLLEGES & UNIV (HBCU) SCIENCE.....	15,150	15,150	18,450	37,790
10	LINCOLN LABORATORY RESEARCH PROGRAM.....	29,524	29,524	29,524	29,524
11	INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	229,739	235,139	227,667	231,859
12	COGNITIVE COMPUTING SYSTEMS.....	179,728	179,728	176,355	175,797
13	BIOLOGICAL WARFARE DEFENSE.....	99,137	85,466	67,007	72,562
14	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	305,327	348,777	239,727	268,707
15	HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) APP	7,300	---	7,300	6,300
16	TACTICAL TECHNOLOGY.....	374,717	365,341	347,358	338,117
17	MATERIALS AND BIOLOGICAL TECHNOLOGY.....	306,022	306,022	306,871	303,671
19	ELECTRONICS TECHNOLOGY.....	213,529	203,929	198,565	197,965
21	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES.....	182,416	222,916	185,416	212,816
23	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	21,282	31,782	25,282	32,882
24	SOF MEDICAL TECHNOLOGY DEVELOPMENT.....	2,388	2,388	2,388	2,388
25	INSENSITIVE MUNITIONS - ADVANCED DEVELOPMENT.....	6,000	---	6,000	4,000
	TOTAL, APPLIED RESEARCH.....	1,987,801	2,089,704	1,856,452	1,929,320

(In thousands of dollars)

		Budget	House	Senate	Conference
	ADVANCED TECHNOLOGY DEVELOPMENT				
27	SO/LIC ADVANCED DEVELOPMENT	32,669	41,669	32,669	40,069
28	COMBATING TERRORISM TECHNOLOGY SUPPORT	76,276	109,276	88,976	118,656
29	COUNTERPROLIFERATION INITIATIVES--PROLIF PREV & DEFEAT	213,240	220,740	213,240	219,440
30	BALLISTIC MISSILE DEFENSE TECHNOLOGY	118,569	101,569	131,569	109,169
31	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	23,488	23,488	23,488	23,488
32	ADVANCED AEROSPACE SYSTEMS	86,385	70,385	71,232	72,385
33	SPACE PROGRAMS AND TECHNOLOGY	224,551	217,803	135,851	217,803
34	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV	232,302	278,602	208,702	247,162
35	JOINT ELECTRONIC ADVANCED TECHNOLOGY	9,219	9,219	13,219	12,419
36	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	194,352	196,352	203,452	204,252
37	NETWORKED COMMUNICATIONS CAPABILITIES	40,000	---	40,000	15,000
38	BIOMETRICS SCIENCE AND TECHNOLOGY	8,000	---	12,000	10,200
39	HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) ADV	9,000	---	9,000	3,000
40	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	10,000	3,500	25,000	23,800
41	JOINT ROBOTICS PROGRAM/AUTONOMOUS SYSTEMS	11,256	16,756	16,256	19,756
42	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	18,736	33,736	49,336	52,216
44	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	68,874	68,874	69,874	69,674
45	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT	---	28,000	27,800	47,440
46	JOINT WARFIGHTING PROGRAM	11,060	11,060	11,060	11,060
47	ADVANCED ELECTRONICS TECHNOLOGIES	220,548	224,048	203,300	204,240
48	SYNTHETIC APERTURE RADAR (SAR) COHERENT CHANGE DETECT.	6,500	---	3,500	3,500
49	ADVANCED CONCEPT TECHNOLOGY DEMONSTRATIONS	---	2,000	---	1,600
50	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	187,587	189,587	208,487	206,807
51	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS	256,868	256,868	251,645	256,868
52	LAND WARFARE TECHNOLOGY	24,711	19,011	21,641	19,768
53	CLASSIFIED DARPA PROGRAMS	188,188	188,188	185,028	188,188
54	NETWORK-CENTRIC WARFARE TECHNOLOGY	151,641	144,641	142,765	151,641
55	SENSOR TECHNOLOGY	196,462	196,462	187,509	196,462
56	GUIDANCE TECHNOLOGY	127,777	127,777	122,576	127,777

(In thousands of dollars)

		Budget	House	Senate	Conference
57	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	13,282	13,282	13,282	13,282
58	SOFTWARE ENGINEERING INSTITUTE.....	29,851	29,851	25,951	25,951
60	QUICK REACTION SPECIAL PROJECTS.....	109,514	112,414	112,514	114,234
61	JOINT EXPERIMENTATION.....	112,017	108,717	113,017	108,177
62	JOINT WARGAMING SIMULATION MANAGEMENT OFFICE.....	37,837	27,837	17,837	22,837
63	TEST & EVALUATION SCIENCE & TECHNOLOGY.....	62,889	62,889	62,889	62,889
64	TECHNOLOGY LINK.....	2,234	4,234	4,734	5,834
65	SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT....	29,935	42,435	32,935	42,335
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	3,145,818	3,181,270	3,092,334	3,269,379
	DEMONSTRATION & VALIDATION				
66	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT .	38,060	45,060	44,060	49,560
67	PHYSICAL SECURITY EQUIPMENT.....	---	---	2,000	1,600
68	RETRACT LARCH.....	22,365	22,365	22,365	22,365
69	JOINT ROBOTICS PROGRAM.....	11,860	16,860	19,860	23,860
71	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	33,199	40,699	33,199	39,199
72	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	962,585	1,032,585	1,037,585	1,052,485
73	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT...	2,520,064	2,233,864	2,318,764	2,258,764
73A	SBX.....	---	---	166,300	166,300
74	BALLISTIC MISSILE DEFENSE BOOST DEFENSE SEGMENT.....	548,759	498,108	548,759	513,759
75	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	57,160	62,160	62,160	64,360
76	BALLISTIC MISSILE DEFENSE SENSORS.....	778,163	611,663	753,163	590,163
	SPACE SURVEILLANCE & TRACKING SYSTEM.....	331,525	286,167	272,525	233,125
77	BALLISTIC MISSILE DEFENSE SYSTEM INTERCEPTOR.....	227,499	372,853	197,499	342,453
78	BALLISTIC MISSILE DEFENSE TEST & TARGETS.....	586,150	586,150	636,150	626,150
86	BALLISTIC MISSILE DEFENSE C2BMC.....	258,913	460,703	248,913	450,703
87	BALLISTIC MISSILE DEFENSE HERCULES.....	53,658	52,824	53,658	52,824
88	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	48,787	50,235	48,787	49,735
89	BALLISTIC MISSILE DEFENSE JOINT NATIONAL INTERGRATION.	104,012	79,099	104,012	79,099
80	BALLISTIC MISSILE DEFENSE SYSTEMS CORE.....	482,016	431,788	387,416	416,788
81	SPECIAL PROGRAMS - MDA.....	323,250	198,250	198,850	198,250

(In thousands of dollars)

		Budget	House	Senate	Conference
82	AEGIS BMD	1,059,103	1,116,103	1,059,103	1,134,103
84	MULTIPLE KILL VEHICLES	271,151	274,251	221,151	231,529
85	BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS	27,666	17,666	12,666	16,666
92	HUMANITARIAN DEMINING	14,013	14,013	14,013	14,013
93	COALITION WARFARE	14,047	10,047	14,047	10,047
94	DEPARTMENT OF DEFENSE CORROSION PROGRAM	4,983	4,983	19,083	19,083
95	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	2,960	2,960	2,960	2,960
91	REGARDING TRENCH	2,000	2,000	2,000	2,000
96	HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) RES	5,700	---	5,700	1,000
97	JOINT SYSTEMS INTEGRATION COMMAND (JSIC)	19,375	19,375	19,375	19,375
98	JOINT FIRES INTEGRATION & INTEROPERABILITY TEAM	16,596	16,596	16,596	16,596
99	REDUCTION OF TOTAL OWNERSHIP COST	25,225	25,225	25,225	25,225
100	JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM	3,482	4,982	8,782	9,234
	PROMPT GLOBAL STRIKE	---	100,000	---	100,000
	TOTAL, DEMONSTRATION & VALIDATION	8,854,326	8,689,634	8,576,726	8,833,373
	ENGINEERING & MANUFACTURING DEVELOPMENT				
101	DEPLOYMENT AND DISTRIBUTION ENTERPRISE TECHNOLOGY	25,000	10,000	25,000	15,000
102	DEFENSE ACQUISITION CHALLENGE PROGRAM (DACP)	28,970	28,970	28,970	28,970
103	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	3,281	3,281	3,281	3,281
104	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	247,935	249,935	251,935	253,135
106	JOINT ROBOTICS PROGRAM	2,911	7,911	2,911	6,911
107	ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)	9,832	9,832	9,832	9,832
108	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	16,527	16,527	16,527	16,527
109	WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES	15,394	15,394	15,394	15,394
110	INFORMATION TECHNOLOGY DEVELOPMENT	11,297	11,297	11,297	11,297
113	DEFENSE INTEGRATED MILITARY HUMAN RESOURCES SYSTEM	79,300	79,300	79,300	79,300
116	BUSINESS TRANSFORMATION AGENCY R&D ACTIVITIES	127,970	128,970	107,970	131,759
117	HOMELAND PERSONNEL SECURITY INITIATIVE	1,800	1,800	1,800	1,800
118	TRUSTED FOUNDRY	43,604	43,604	43,604	43,604

(In thousands of dollars)

	Budget	House	Senate	Conference
119 DEFENSE ACQUISITION EXECUTIVE (DAE) PILOT PROGRAM.....	5,838	5,838	5,838	5,838
121 GLOBAL COMBAT SUPPORT SYSTEM.....	18,129	18,129	18,129	18,129
122 JOINT COMMAND AND CONTROL PROGRAM (JC2).....	70,283	70,283	55,283	58,283
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	708,071	701,071	677,071	699,060
RDT&E MANAGEMENT SUPPORT				
126 GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	4,000	4,000	4,000	4,000
127 TRAINING TRANSFORMATION (T2).....	51,752	54,252	60,252	61,052
129 DEFENSE READINESS REPORTING SYSTEM (DRRS).....	11,886	11,886	11,886	11,886
130 JOINT SYSTEMS ARCHITECTURE DEVELOPMENT.....	14,437	14,437	14,437	14,437
131 CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT....	133,772	144,272	145,772	148,172
132 ASSESSMENTS AND EVALUATIONS.....	1,645	1,645	---	---
133 THERMAL VICAR.....	7,822	7,822	9,467	9,467
134 JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC).....	6,925	6,925	6,925	6,925
135 TECHNICAL STUDIES, SUPPORT AND ANALYSIS.....	31,263	35,263	156,263	35,263
136 USD(A&T)--CRITICAL TECHNOLOGY SUPPORT.....	4,021	4,021	4,021	4,021
137 FOREIGN MATERIAL ACQUISITION AND EXPLOITATION.....	52,683	52,683	52,683	52,683
139 JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION....	53,653	53,653	53,653	53,653
140 CLASSIFIED PROGRAM USD(P).....	---	98,200	98,200	98,200
141 FOREIGN COMPARATIVE TESTING.....	32,919	32,919	32,919	32,919
142 NUCLEAR MATTERS - PHYSICAL SECURITY.....	4,513	4,513	4,513	4,513
143 SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	11,152	11,152	11,152	11,152
144 GENERAL SUPPORT TO USD (INTELLIGENCE).....	4,574	4,574	4,574	4,574
145 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	99,053	99,053	99,053	99,053
150 SMALL BUSINESS INNOVATION RESEARCH/CHALLENGE ADMINISTR	2,162	3,162	2,162	3,162
151 DEFENSE TECHNOLOGY ANALYSIS.....	11,927	11,927	13,927	13,727
153 FORCE TRANSFORMATION DIRECTORATE.....	20,585	20,585	20,585	20,585
154 DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	51,800	51,800	51,800	51,515
155 R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	9,326	9,326	9,326	9,326
156 DEVELOPMENT TEST AND EVALUATION.....	18,712	18,712	18,712	18,712
157 MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT).....	52,992	52,992	52,992	48,790

(In thousands of dollars)

	Budget	House	Senate	Conference
158 BUDGET AND PROGRAM ASSESSMENTS	5,750	---	5,750	1,750
161 SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES	28,652	28,652	36,452	34,892
162 INFORMATION TECHNOLOGY RAPID ACQUISITION	5,197	5,197	5,197	5,197
163 INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS (IO)	9,932	9,932	9,932	9,932
165 WARFIGHTING AND INTELLIGENCE-RELATED SUPPORT	827	827	827	827
166 PENTAGON RESERVATION	6,058	6,058	6,058	6,058
167 MANAGEMENT HEADQUARTERS - MDA	85,906	85,906	80,906	80,906
168 IT SOFTWARE DEV INITIATIVES	888	888	888	888
TOTAL, RDT&E MANAGEMENT SUPPORT	836,784	947,234	1,085,284	958,237
OPERATIONAL SYSTEMS DEVELOPMENT				
170 DEFENSE INFORMATION SYSTEM FOR SECURITY (DISS)	34,417	34,417	34,417	34,417
171 PARTNERSHIP FOR PEACE (PFP) INFORMATION MANAGEMENT SYS	2,000	2,000	2,000	2,000
172 CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D	7,716	7,716	7,716	7,716
173 JOINT INTEGRATION AND INTEROPERABILITY	53,892	53,892	53,892	53,892
174 JOINT STAFF ANALYTICAL SUPPORT	7,744	7,744	7,744	7,744
175 CLASSIFIED PROGRAMS	1,694	1,694	1,694	1,694
176 C4I INTEROPERABILITY	76,179	76,179	76,179	76,179
177 CRYPTOLOGIC ACTIVITIES	---	---	9,900	7,920
178 JOINT/ALLIED COALITION INFORMATION SHARING	26,321	26,321	26,321	26,321
184 NATIONAL MILITARY COMMAND SYSTEM-WIDE SUPPORT	713	713	713	713
185 DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGRATIO	5,548	5,548	5,548	5,548
186 LONG HAUL COMMUNICATIONS (DCS)	16,487	16,487	16,487	16,487
187 MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK	9,482	9,482	9,482	9,482
188 PUBLIC KEY INFRASTRUCTURE (PKI)	9,389	9,389	9,389	9,389
189 KEY MANAGEMENT INFRASTRUCTURE (KMI)	52,090	52,090	52,090	52,090
190 INFORMATION SYSTEMS SECURITY PROGRAM	13,256	16,256	13,256	15,656
191 INFORMATION SYSTEMS SECURITY PROGRAM	394,314	394,314	394,314	394,314
192 INFORMATION SYSTEMS SECURITY PROGRAM	2,300	2,300	2,300	2,300
194 C4I FOR THE WARRIOR	3,624	3,624	3,624	3,624

(In thousands of dollars)

	Budget	House	Senate	Conference
196 GLOBAL COMMAND AND CONTROL SYSTEM	47,237	47,237	47,237	47,237
197 JOINT SPECTRUM CENTER	18,653	18,653	18,653	18,653
198 NET-CENTRIC ENTERPRISE SERVICES (NCES)	43,424	43,424	23,424	38,424
199 TELEPORT PROGRAM	5,798	5,798	5,798	5,798
200 SPECIAL APPLICATIONS FOR CONTINGENCIES	15,687	17,687	15,687	17,287
202 DEFENSE GEOSPATIAL-INTELLIGENCE	---	---	1,000	2,800
203 CRITICAL INFRASTRUCTURE PROTECTION (CIP)	12,667	12,667	12,667	12,667
204 FOREIGN COUNTERINTELLIGENCE ACTIVITIES	---	---	2,000	1,600
205 DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	2,951	2,951	2,951	2,951
207 POLICY R&D PROGRAMS	4,627	5,627	10,627	10,627
209 NET CENTRICITY	10,243	10,243	10,243	10,243
215 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	15,800	17,800	15,800	17,400
217 MQ-1 PREDATOR A UAV	13,100	13,100	13,100	13,100
219 COMBATANT COMMAND INTELLIGENCE OPERATIONS	---	---	14,000	12,400
226 INDUSTRIAL PREPAREDNESS	20,114	33,114	56,114	57,714
227 LOGISTICS SUPPORT ACTIVITIES	2,846	2,846	2,846	2,846
228 MANAGEMENT HEADQUARTERS (JCS)	3,210	3,210	3,210	3,210
229 NATO JOINT STARS	41,466	31,466	41,466	31,466
230 STORM	27,107	27,107	27,107	27,107
232 SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED DEV	60,750	81,909	56,909	56,909
233 SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	42,262	54,262	55,612	60,362
234 SPECIAL OPERATIONS TACTICAL SYSTEMS DEVELOPMENT	35,783	46,283	52,383	63,263
235 SOF OPERATIONAL ENHANCEMENTS	53,418	58,118	55,518	59,398
236 SPECIAL OPERATIONS CV-22 DEVELOPMENT	23,473	23,473	23,473	23,473
237 SPECIAL OPERATIONS AIRCRAFT DEFENSIVE SYSTEMS	5,195	5,195	5,195	5,195
238 OPS ADVANCED SEAL DELIVERY SYSTEM (ASDS) DEVELOPMENT	20,292	20,292	20,292	20,292
239 MISSION TRAINING AND PREPARATION SYSTEMS (MTPS)	6,405	6,405	6,405	6,405

(In thousands of dollars)

	Budget	House	Senate	Conference
240 UNMANNED VEHICLES (UV)	1,500	1,500	1,500	6,500
241 MC130J SOF TANKER RECAPITALIZATION	12,701	12,701	12,701	12,701
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,263,875	1,323,234	1,340,984	1,375,514
999 CLASSIFIED PROGRAMS	3,483,300	3,396,023	3,362,800	3,387,423
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DEF-WIDE	20,559,850	20,659,095	20,303,726	20,790,634

EXPLANATION OF PROJECT LEVEL ADJUSTMENTS
[In thousands of dollars]

R-1		Budget Request	House	Senate	Conference
1	**DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH**	**5,000**	**8,000**	**9,000**	**10,900**
	Combat Effective Facial Armor Research and Development		1,500		1,200
	Dual Use Technologies for Bio-defense		1,500		1,500
	University Strategic Partnership (Note: Includes transfer from RDTE,DW Line 21)			4,000	3,200
2	**DEFENSE RESEARCH SCIENCES**	**152,622**	**163,422**	**160,922**	**176,115**
	Nanoscience Nanotechnology Institute		3,000		2,400
	High Energy Laser for Detection, Inspection and Non-destructive Testing (Note: Transferred to RDTE,AF, Line 1)		2,000		0
	Illinois Institute of Technology		1,300		1,040
	Nanocrystal Source Display		1,500		1,200
	Bacterial Ghost Influenza Vaccine Development		2,000		1,600
	Advanced Research to Further National Security Goals		1,000		1,000
	Advanced Nano-Engineered Composites (AMRI)			5,000	4,000
	Advanced Photonic Composites Research			3,300	3,253
	Alternative Futures at the Range Complex Level for the Southwest US (Note: Transferred from RDTE,N Line 2)				1,000
	Focus Center Government-Industry Consortia for University Research (Note: Transferred from RDTE,DW Line 3)				8,000
3	**GOVERNMENT/INDUSTRY COSPONSORSHIP OF UNIVERSITY RESEARCH**	**0**	**8,000**	**2,500**	**6,200**
	Nanotechnology Initiative at Shaw University		1,000		1,000
	New York Structural Biology Center		2,000		1,600
	Integrated Cryo-cooled High Power Density Systems		2,000		1,600
	Focus Center Government-Industry Consortia for University Research (Note: Transferred to RDTE,DW Line 2)		3,000		0
	High Power Densities Research			2,500	2,000
4	**DEFENSE EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE**	**5,878**	**5,878**	**19,878**	**17,078**
	DEPSCoR program adjustment			14,000	11,200
6	**CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM**	**72,003**	**101,253**	**75,403**	**83,663**
	Chem Bio Defense Initiative		5,000		4,000
	Detection of Biological Agents in Water		2,500		2,000
	Diamond MEMS Sensors for Real-Time Sensing of Weaponized Pathogens		1,000		1,000
	Portable Continuous Monitor for Biodetection		2,000		1,600
	Portable Rapid Bacterial Warfare Detection Unit (Note: Transferred to RDTE,DW Line 34)		5,500		0
	Rapid Response Database Systems Initiative		1,000		1,000
	Initiative for Defense Against Bio-Warfare and Bio-Terrorism		2,000		1,600
	Zumwalt National Program for Countermeasures to Biological and Chemical Threats (Note: Transferred to RDTE,DW Line 14)		1,000		0

R-1		Budget Request	House	Senate	Conference
	Chemical/Biological Preparedness Center – Advanced Development of Mobile Rapid Response Prototype (Note: Transferred to RDTE,DW Line 34)		4,250		0
	Garden State Cancer Center Vaccine Development Program		1,000		800
	Novel Viral Biowarfare Agent Identification and Treatment (NOVBAIT) (Note: Transferred to RDTE,DW Line 14)		4,000		0
	CB 1 -- Unjustified TCTI funding			-5,300	-5,300
	DNA Safeguard			1,700	1,360
	High Speed, High Volume Laboratory Network for Infectious Diseases (Note: Transferred to RDTE,DW Line 34)			3,000	0
	Multisignal Nanosensors for Detection of IEDs			2,000	2,000
	PhotoScrub			2,000	1,600
XX	**ADVANCED DEVELOPMENT INITIATIVES FUND**	**0**	**50,000**		**0**
7	**INSENSITIVE MUNITIONS--EXPLORATORY DEVELOPMENT**	**15,542**	**11,542**	**15,542**	**12,542**
	Program Growth		-4,000		-3,000
8	**MEDICAL FREE ELECTRON LASER**	**0**	**2,000**	**3,000**	**2,400**
	Medical Free Electron Laser		2,000	3,000	2,400
9	**HISTORICALLY BLACK COLLEGES & UNIVERSITIES (HBCU) SCIENCE**	**15,150**	**15,150**	**18,450**	**37,790**
	Instrumentation Program for Tribal Colleges and Universities			3,300	2,640
	Historically Black Colleges and Universities				20,000
11	**INFORMATION AND COMMUNICATIONS TECHNOLOGY**	**229,739**	**235,139**	**227,667**	**231,859**
	National Repository of Digital Forensic Intelligence/Center for Telecommunications and Network Security		1,400		1,120
	Secure Open Systems Institute (Note: Transferred to RDTE,A Line 2)		3,000		0
	Software Assurance Education and Research Institute		1,000		1,000
	Execution adjustment			-2,072	0
12	**COGNITIVE COMPUTING SYSTEMS**	**179,728**	**179,728**	**176,355**	**175,797**
	Execution adjustment			-3,373	-3,931
13	**BIOLOGICAL WARFARE DEFENSE**	**99,137**	**85,466**	**67,007**	**72,562**
	Execution Delays		-4,400		
	Cancellation of Spectral Sensing of Bio-Aerosols (SSBA)		-9,771		-9,771
	Biomedical Engineering Initiative		500		500
	Execution adjustment			-32,130	-17,304
14	**CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM**	**305,327**	**348,777**	**239,727**	**268,707**
	Chem Bio Defense Initiative		10,000		8,000
	Asymmetrical Protocols for Biodefense: Rapid Acting Broad Spectrum Protection Against Biological Threat		3,000		0
	Chemical Warfare Agent Fate Model Verification and Validation (Note: Transferred to RDTE,DW Line 34)		1,000		0
	Point-of-Care Diagnostic System		1,000		1,000
	Biosurety Development and Management Program		800		800
	Strategic Bioterrorism Response for Battlefield Survival (Note: Transferred to RDTE,DW Line 34)		1,800		0

R-1		Budget Request	House	Senate	Conference
	Virus Mutation and Virus Transfer from Humans to Animals		3,000		3,000
	Mixed Oxidants for Chemical and Biological Decontamination		5,000		4,000
	Self-Decontaminating Polymer System for Chemical and Biological Warfare Agents		7,000		5,600
	Rapid Forensic Evaluation of Microbes in Biodefense		1,000		1,000
	Continuation of Unmanned Vehicle CBRNE Unitary Sensor Suite Development and Demonstration (Note: Transferred to RDTE,DW Line 34)		2,000		0
	Countermeasures to Chemical/Biological Control-Rapid Response		5,000		4,000
	Multifunctional Particles for Defeating CBWA (Chemical and Biological Warfare Agents)		1,000		1,000
	HyperAcute Vaccine Development		1,850	1,000	1,480
	TMTI -- program delays			-50,000	-50,000
	CB 2 -- Unjustified TCTI funding			-26,100	-26,100
	Advanced Emergency Medical Response Training Program (Note: Transferred to RDTE,DW Line 34)			2,000	0
	Antibody-based Therapeutic against Smallpox			1,000	1,000
	Chemical/Biological Infrared Detection System			2,000	1,600
	Multi-purpose Biodefense Immunoarray (Note: Transferred to RDTE,DW Line 34)			1,000	0
	Rapid Detection of Bacterial Pathogens			2,000	1,600
	Research on a Molecular Approach to Hazardous Materials Decontamination			1,500	1,200
	Zumwalt National Program for Countermeasures to Biological and Chemical Threats (Note: Transferred from RDTE,DW Line 6)				1,000
	Novel Viral Biowarfare Agent Identification and Treatment (NOVBAIT) (Note: Transferred from RDTE,DW Line 6)				3,200
15	**HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) APPLICATIONS**	**7,300**	**0**	**7,300**	**6,300**
	Program growth		-7,300		-1,000
16	**TACTICAL TECHNOLOGY**	**374,717**	**365,341**	**347,358**	**338,117**
	Cancellation for Waveforms for Active Sensing		-3,670		-3,670
	Cancellation of SUAVE		-6,706		-6,706
	Optinet Sensor System		1,000		800
	Execution adjustment			-37,359	-37,024
	CEROS			10,000	10,000
17	**MATERIALS AND BIOLOGICAL TECHNOLOGY**	**306,022**	**306,022**	**306,871**	**303,671**
	Execution adjustment			-12,151	-12,151
	Bioceramic Bones for Battlefield Trauma (Note: Transferred to RDTE,A Line 30)			2,000	0
	Economic production of coal-to-liquid fuels			3,000	2,400
	Reduce environmental impact of coal-to-liquid fuels			3,000	2,400
	Strategic Materials and Silicon Carbide Optics			5,000	5,000
19	**ELECTRONICS TECHNOLOGY**	**213,529**	**203,929**	**198,565**	**197,965**
	Execution Delays		-9,600		0
	Execution adjustment			-17,964	-17,964
	3-D Technology for Advanced Sensor Systems			3,000	2,400

R-1		Budget Request	House	Senate	Conference
21	**WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES**	**182,416**	**222,916**	**185,416**	**212,816**
	Fissile Material Detection Research		26,500		21,200
	University Strategic Partnerships (Note: Transferred to RDTE,DW, Line 2)		3,000		0
	Simulated Virtual Prototype Environment Development		1,000		1,000
	Comprehensive National Incident Management System		3,000	2,000	2,400
	Center for Nonproliferation Studies, Monterey Institute for International Affairs		2,000		1,600
	Remote Sighting System		1,000		800
	PROTECTOR-DACS		3,000		2,400
	National Center for Blast Mitigation and Protection		1,000	1,000	1,000
23	**SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT**	**21,282**	**31,782**	**25,282**	**32,882**
	Pulsed Energy Projectile (PEP)		1,000		1,000
	Special Operations Forces Network-Centric Sharing and Storage		1,000		1,000
	Nickel Boron Metal Coating Technology for USSOCOM Vehicle Systems		2,000		1,600
	Athena - Threat Signal Locator		1,000		1,000
	Advanced Multi-Purpose Microdisplay System		1,000		1,000
	Flashlight Soldier-to-Soldier Combat ID System (FSCIS)		2,000	2,000	2,000
	Improved Sensor Systems		2,500		2,000
	Foliage Penetrating Reconnaissance and Surveillance System			2,000	2,000
25	**INSENSITIVE MUNITIONS - ADVANCED DEVELOPMENT**	**6,000**	**0**	**6,000**	**4,000**
	Reduce program growth		-6,000		-2,000
27	**SO/LIC ADVANCED DEVELOPMENT**	**32,669**	**41,669**	**32,669**	**40,069**
	Aerial Canopy Sensor Delivery System (ACSDS)		1,000		1,000
	BIGFOOT Tag Airborne Receiver		5,000		4,000
	Extended-Lifetime Radioisotope Batteries		1,000		800
	Day Night Wide Area Surveillance System		2,000		1,600
28	**COMBATING TERRORISM TECHNOLOGY SUPPORT**	**76,276**	**109,276**	**88,976**	**118,656**
	Automated Language Translation		3,000		2,400
	Counter-insurgency Biometrics Tactical Census Authentication Enrollment and Identification System		2,500		2,000
	CT-QAS Counterterrorism-Quality Assurance Science program		1,500		1,200
	DICAST System Enhancement		3,000		2,400
	Early Responders Distance Learning Center (ERDLC): Scenario and Incident Based Port Security Training		1,000		800
	EDIT Advanced Shallow Subsurface Tunnel, Bunker and Cache Detection		1,000		800
	DIFAR Sensor System		2,000		1,600
	Roll-On, Roll-Off Reconnaissance Pallet Improvement		6,000		4,800
	Facility Security Using Tactical Surveys		3,000		3,000
	Law Enforcement Test Bed for Counter-Insurgency Tactics, Techniques and Practices		2,000		1,600
	Port and Hull Security 3D, Real Time Sonar-System Echoscope		3,000		2,400
	Comprehensive Maritime Domain Awareness		3,000		4,500
	Accelerated DT&E of Affordable Robust Mid-Sized UGVs for Defense & Homeland Security Applications		1,000		800
	Contextual Arabic Blog and Slang Analysis Program		1,000	1,000	1,000

R-1		Budget Request	House	Senate	Conference
	Advanced Multi-sensor ISR Testbed			1,600	1,600
	Autonomous Intrusion Surveillance Sensor Networks			2,000	2,000
	Bioterrorism Operations Policy for Public Emergency Response (BOPPER)			2,000	1,600
	Interagency, Near-Term Engineering R&D to Increase the Survivability of Personnel Exposed to IED Attacks			3,000	2,400
	Robotic Mobility Platform Systems			1,000	800
	Ruggedized Mobile Gamma Radiation Detection System (GuARDS)			1,100	880
	Ruggedized Mobile Secure 1000			1,000	800
	Mulit-mission Advanced Sensor System (Note: Transferred from RDTE,AF Line 28)				3,000
29	**COUNTERPROLIFERATION INITIATIVES-- PROLIFERATION PREVENTION & DEFEAT**	**213,240**	**220,740**	**213,240**	**219,440**
	Low Power Next Generation Portable Radionuclide Detection & ID Systems		2,000		1,600
	Stand-off Chemical Detector for SOF Venture		2,000		1,600
	AELED IED Detection for Naval UAVs		1,000		1,000
	Continuation of Advanced Materials Research for Nuclear Detection, Counter-proliferation and Imaging		2,500		2,000
30	**BALLISTIC MISSILE DEFENSE TECHNOLOGY**	**118,569**	**101,569**	**131,569**	**109,169**
	Program Reduction		-10,000		-10,000
	Transferred to RDTW,DW Line 86 for execution		-12,000		-12,000
	Advanced Surface Radar Technologies (ASuRT) (Note: Transferred to RDTE,DW Line 45)		3,000		0
	Aluminum Nitride for Substrates and Devices		2,000		1,600
	Massively Parallel Optical Interconnects for Microsatellite Applications			4,000	3,200
	Multi-Target Tracking Optical Sensor-Array Tracking			3,000	3,000
	Net Centric Airborne Defense Element (NCADE)			6,000	4,800
32	**ADVANCED AEROSPACE SYSTEMS**	**86,385**	**70,385**	**71,232**	**72,385**
	Execution Delays		-16,000		-16,000
	Execution adjustment			-15,153	0
	Buoyancy Assisted Lift Air Vehicle				2,000
33	**SPACE PROGRAMS AND TECHNOLOGY**	**224,551**	**217,803**	**135,851**	**217,803**
	Cancellation of Micro Electric Propulsion (MEP)		-6,748		-6,748
	Execution Adjustment			-38,700	0
	Falcon (Note: Transferred to RDTE,DW, Line 135 for Prompt Global Strike)			-50,000	0
34	**CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEVELOPMENT**	**232,302**	**278,602**	**208,702**	**247,162**
	Chem Bio Defense Initiative		10,000		8,000
	Develop & Test Environmentally Safe Biocides for Bio-Defense		500		500
	Fraunhofer USA Center for Molecular Biology		1,000		1,000
	Hand-held Nanotechnology Enabled Bio-warfare Agent Identification System		3,000		2,400
	Long Range Stand Off System for Detection of Biological Materials		1,000	1,400	1,120
	Myeloid Progenitor for Acute Radiation Syndrome		3,000		2,400
	Carbon Nanotube Chemical Detector		1,000		1,000
	Surface Enhanced infrared Detection of Threats		3,300		2,640
	Regenerative Chemical Biological Filtration Systems		2,500		2,500

R-1		Budget Request	House	Senate	Conference
	Small Accelerators and Detection Systems for Homeland Defense and National Security Applications		2,000	1,300	1,600
	Total Perimeter Surveillance (TPS)		2,000		1,600
	Warfighter Personnel Decontamination		1,000		800
	Acinetobacter Baumannii Research		2,000		2,000
	Antioxidant Micronutrient Therapeutic Countermeasures for Chemical Agents		1,000		1,000
	Anthrax Monoclonal Antibody Therapeutic and Prophylaxis Program		2,000		1,600
	UCLA High Speed and High Volume Laboratory Network for Infectious Diseases (Note: Includes transfer from RDTE,DW Line 6)		5,000		4,000
	Modular Raman Chem/Bio Detection System		1,000		0
	Photo Catalytic Oxidation (PCO) Demonstration for Water Reuse		2,500		2,000
	Environmental Bioterrorism Detection Program		2,500		2,000
	TMTI -- program delays			-50,000	-50,000
	Fastman Analyzer Platform (Note: Transferred to RDTE,DW Line 75			2,000	0
	Improved Chemical, Biological, and Radiological Filters			2,000	1,600
	Joint Biological Agent Identification and Diagnostic System (Note: Transferred to RDTE,DW Line 104)			2,000	0
	Mobile Rapid Response Prototype/Chemical Biological Preparedness Center (Note: Includes transfer from RDTE, DW Line 6)			4,000	4,000
	Mobile Real-time, non-specific Viral Agent Detector			1,500	1,500
	Next Generation Gas Chromatographic Mass Spectrometer for WMD Civil Support Teams			1,000	800
	NIDS Automated Biological Agent Identifier			3,000	3,000
	Plant Vaccine Development			3,000	3,000
	Portable Rapid Bacterial Warfare Detection Unit (Note: Includes transfer from RDTE,DW Line 6)			3,000	4,400
	Reactive Coatings Enhanced to Resist Chemical/Biological Contamination			2,200	1,760
	Strategic Bioterrorism Response for Battlefield Survival (Note: Transferred from RDTE,DW Line 14)				1,440
	Continuation of Unmanned Vehicle CBRNE Unitary Sensor Suite Development and Demonstration (Note: Transferred from RDTE,DW Line 14)				1,600
	Chemical Warfare Agent Fate Model Verification and Validation (Note: Transferred from RDTE,DW Line 14)				1,000
	Advanced Emergency Medical Response Training Program (Note: Transferred from RDTE,DW Line 14)				1,600
	Multi-purpose Biodefense Immunoarray (Note: Transferred from RDTE,DW Line 14)				1,000
35	**JOINT ELECTRONIC ADVANCED TECHNOLOGY**	**9,219**	**9,219**	**13,219**	**12,419**
	Joint Technology Insertion and Accelerated System Integration Capability for Electronic Warfare			4,000	3,200

R-1		Budget Request	House	Senate	Conference
36	**JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS**	**194,352**	**196,352**	**203,452**	**204,252**
	Distributed Network Switching Joint Capability Demonstration		2,000		1,600
	Hardware Encryption Technology Program			2,000	1,600
	Louisiana Command & Control, Interoperable Communications & Information Sharing			2,000	2,000
	Simultaneous Field Radiation Technology (SFRT)			3,100	3,100
	Spartan Advanced Composite Technology			2,000	1,600
37	**NETWORKED COMMUNICATIONS CAPABILITIES**	**40,000**	**0**	**40,000**	**15,000**
	Program growth		-40,000		-25,000
38	**BIOMETRICS SCIENCE AND TECHNOLOGY**	**8,000**	**0**	**12,000**	**10,200**
	Program growth		-8,000		-1,000
	Variable Distance Iris Identification on the Move			4,000	3,200
39	**HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB) ADV**	**9,000**	**0**	**9,000**	**3,000**
	Program growth		-9,000		-6,000
40	**DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROGRAM**	**10,000**	**3,500**	**25,000**	**23,800**
	Program growth		-10,000		-5,000
	Light Weight Composite Brakes for Armored Wheeled Vehicles		1,000		800
	Claflin University Detection and Remediation Response to Biological and Chemical Weapons Project		2,500		2,000
	Reduction to new start			-5,000	0
	Disruptive Manufacturing Technology Initiative			10,000	8,000
	High Performance Manufacturing Technology Initiative			10,000	8,000
41	**JOINT ROBOTICS PROGRAM/AUTONOMOUS SYSTEMS**	**11,256**	**16,756**	**16,256**	**19,756**
	Joint Robotics Initiative		5,000		4,000
	Autonomous and Semi-autonomous Manipulation for Ground Robots		500		500
	Warrior Unmanned Ground Vehicle			5,000	4,000
42	**GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS**	**18,736**	**33,736**	**49,336**	**52,216**
	Advanced Mobile Microgrid System		3,000		0
	Aging Systems Sustainment and Enabling Technologies (ASSET)		2,500		2,000
	Emerging Critical Interconnection Technology Program (E/CIT)		1,000		800
	Parts Backorder Reduction		3,000		2,400
	Advanced Mobile Microgrid System		5,500	2,000	4,400
	Accelerate Defense Supply Chain			2,000	1,600
	Biofuels Program			2,000	1,600
	Defense Fuelcell Locomotive			3,000	2,400
	Green Product Evaluation Program (Note: Transferred to RDTE,DW Line 71)			2,000	0
	High Energy Battery for Unmanned Aerial Vehicles			2,600	2,080
	Hydrogen Storage Program			5,000	5,000
	New England Manufacturing Supply Chain Initiative			2,000	1,600
	Spray Technique Analysis and Research for Defense (STAR4D)			2,000	1,600
	Vehicle Fuel Cell and Hydrogen Logistics Program			8,000	8,000

R-1		Budget Request	House	Senate	Conference
44	**STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM**	**68,874**	**68,874**	**69,874**	**69,674**
	Dendrimer Enhanced Water Remediation Research			1,000	800
45	**MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT**	**0**	**28,000**	**27,800**	**47,440**
	Agile JTRS Integrated Circuits		2,000		1,600
	Defense Command Integration Center		1,000		1,000
	End to End Semi Fab Alpha Tool		2,000		1,600
	Semi Conductor Photomask Technology Initiative		3,000		2,400
	High Specific Energy Rechargeable Battery		2,000		1,600
	Superlattice Nanotechnology		2,000		1,600
	University Materials Characterization and Metrology Center		1,500		1,200
	Spintronics Memory Storage Technology		3,000		2,400
	3D Electronics		1,000		1,000
	Carbon Nanotube Thin Film Near Infrared Detector		1,000		1,000
	Next Generation Supercomputer IA Prototype for the NRL		5,000		4,500
	Advanced Dynamic Optics Program		1,500		1,200
	Foliage Penetrating Acoustically Cued Imagery Sensor		3,000		2,400
	Advanced Surface Radar Technologies (ASuRT) (Note: Includes transfer from RDTE,DW Line 30)			5,500	5,500
	Demonstrations,T&E of Mini-Sensors			6,000	4,800
	Transponders (EMFST)			3,000	3,000
	Feature Size Migration at DMEA ARMS Foundry			5,000	4,000
	Networked Micro-Sensors Technology Testbed			2,000	1,600
	Rapid Prototyping/Low Rate Production of Mini-Sensors			4,500	3,600
	Self-sensing Array container pre-screening sensor system			1,800	1,440
47	**ADVANCED ELECTRONICS TECHNOLOGIES**	**220,548**	**224,048**	**203,300**	**204,240**
	Computing and Nanoscale Electronic Processing		1,500		1,200
	The Center for Advanced Microelectronics Manufacturing (Note: Transferred to RDTE,A Line 6)		2,000		0
	Execution adjustment			-20,048	-20,048
	MilTech Extension Program			1,500	1,500
	Ultra Low Power Electronics for Special Purpose Computers			1,300	1,040
48	**SYNTHETIC APERTURE RADAR (SAR) COHERENT CHANGE DETECTION**	**6,500**	**0**	**3,500**	**3,500**
	Program growth		-6,500		0
	Phase 2 funding ahead of need			-3,000	-3,000
49	**ADVANCED CONCEPT TECHNOLOGY DEMONSTRATIONS**	**0**	**2,000**	**0**	**1,600**
	Power Dozer Side-Casting Technology Operational Capability/Integration Evaluation		2,000		1,600

R-1		Budget Request	House	Senate	Conference
50	**HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM**	**187,587**	**189,587**	**208,487**	**206,807**
	Data-Intensive, High-Performance Computing-Phase 4		2,000		1,500
	ARSC			5,000	4,000
	High Performance Computational Design of Novel Materials			1,900	1,520
	Simulation Research			2,000	1,600
	High Performance Computing Infrastructure Enhancement			7,000	5,600
	MHPCC			5,000	5,000
51	**COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS**	**256,868**	**256,868**	**251,645**	**256,868**
	Execution Adjustment			-5,223	0
52	**LAND WARFARE TECHNOLOGY**	**24,711**	**19,011**	**21,641**	**19,768**
	Execution Delays/Adjustments		-5,700	-3,070	-4,943
53	**CLASSIFIED DARPA PROGRAMS**	**188,188**	**188,188**	**185,028**	**188,188**
	Execution Adjustment			-3,160	0
54	**NETWORK-CENTRIC WARFARE TECHNOLOGY**	**151,641**	**144,641**	**142,765**	**151,641**
	Cancellation of Confirmatory Hunter-Killer System: Close Combat Lethal Recon (CCLR)		-7,000		0
	Execution Adjustment			-8,876	0
55	**SENSOR TECHNOLOGY**	**196,462**	**196,462**	**187,509**	**196,462**
	Execution Adjustment			-8,953	0
56	**GUIDANCE TECHNOLOGY**	**127,777**	**127,777**	**122,576**	**127,777**
	Execution Adjustment			-5,201	0
58	**SOFTWARE ENGINEERING INSTITUTE**	**29,851**	**29,851**	**25,951**	**25,951**
	DeVenCI			-3,900	-3,900
60	**QUICK REACTION SPECIAL PROJECTS**	**109,514**	**112,414**	**112,514**	**114,234**
	Semi-Autonomous Robotic Manipulation and Sensing		1,500		1,200
	Counter Sniper Protection System (CSPS) Turret		1,400		1,120
	Small Craft Integrated Common Operational Picture			1,000	800
	Unmanned Aerial Vehicles			2,000	1,600
61	**JOINT EXPERIMENTATION**	**112,017**	**108,717**	**113,017**	**108,177**
	Reduce Program Growth		-10,000		-10,000
	Cultural and Societal Modeling & Simulation		3,200		2,560
	Joint Urban Fires Prototype (JUFP)		1,500		1,200
	Joint Experimentation Visualization		2,000		1,600
	East Coast Asymmetric Warfare Initiative			1,000	800
62	**JOINT WARGAMING SIMULATION MANAGEMENT OFFICE**	**37,837**	**27,837**	**17,837**	**22,837**
	Program Reduction		-10,000		-15,000
	Unjustified request			-20,000	0
64	**TECHNOLOGY LINK**	**2,234**	**4,234**	**4,734**	**5,834**
	First Link		2,000		1,600
	DOD Springboard			2,500	2,000
					0

R-1		Budget Request	House	Senate	Conference
65	**SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT**	**29,935**	**42,435**	**32,935**	**42,335**
	11m RIB Replacement Craft Design		1,000		800
	Field Experimentation Program for Special Operations		2,000		1,600
	Information Networking For Operational Reporting and Monitoring (INFORM)		2,500		2,000
	Waterway Threat Detection Sensor System		3,000		2,400
	Improved Information Transfer for Special Forces		4,000		3,200
	Special Operations Portable Power Source			3,000	2,400
66	**NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT**	**38,060**	**45,060**	**44,060**	**49,560**
	Integrated Base Defense Operation Planning Process		1,000		1,000
	Integrated High Activity Response System (INHARS)		5,000		4,000
	Digital Network Centric Remotely Operated Weapons System		1,000		1,000
	Intelligent Decision Exploration			6,000	5,500
67	**PHYSICAL SECURITY EQUIPMENT**	**0**	**0**	**2,000**	**1,600**
	Shipboard Visitor Control Center			2,000	1,600
69	**JOINT ROBOTICS PROGRAM**	**11,860**	**16,860**	**19,860**	**23,860**
	Joint Robotics Initiative		5,000		4,000
	Robotics Program			8,000	8,000
71	**ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM**	**33,199**	**40,699**	**33,199**	**39,199**
	Inland Empire Well Treatment of Perchlorate Contaminated Wells		2,500		2,000
	Multi-Sensor UXO Detection and Recovery System Reacquisition and Removal Phase at Camp Lejeune		2,000		1,600
	Green Product Evaluation and Implementation Program (Note: Includes transfer from RDTE,DW Line 42)		3,000		2,400
72	**BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT**	**962,585**	**1,032,585**	**1,037,585**	**1,052,485**
	Arrow Co-production		25,000	25,000	25,000
	Joint Short Range Ballistic Missile Program		19,000	35,000	20,000
	Study of Upper-tier Missile Program/Arrow ASIP		26,000	15,000	30,000
	Juniper Cobra (Note: Transferred from RDTE,DW Line 76)				14,900
73	**BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT**	**2,520,064**	**2,233,864**	**2,318,764**	**2,258,764**
	European Third Site Construction		-85,000	-85,000	-85,000
	Missile Field Equipment		-54,000		0
	Block 2004/06 Schedule Execution		-97,200		0
	Transferred to Line 86 for execution		-50,000		-50,000
	GMD upgrades			50,000	40,000
	SBX Transfer to Line 73A			-166,300	-166,300
73A	**SBX**			**166,300**	**166,300**
	SBX Transferred from Line 73			166,300	166,300

R-1		Budget Request	House	Senate	Conference
74	**BALLISTIC MISSILE DEFENSE BOOST DEFENSE SEGMENT**	**548,759**	**498,108**	**548,759**	**513,759**
	Program efficiencies identified by MDA		-35,000		-35,000
	Excessive Program Support		-15,651		0
75	**CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM**	**57,160**	**62,160**	**62,160**	**64,360**
	Protective Self-Decontaminating Surfaces		2,000		1,600
	Vacuum Sampling Pathogen Collection and Concentration		3,000	4,000	3,200
	Improved Skin Decontamination System			1,000	800
	Fastman Analyzer Platform (Note: Transferred from RDTE,DW Line 34)				1,600
76	**BALLISTIC MISSILE DEFENSE SENSORS**	**778,163**	**611,663**	**753,163**	**590,163**
	Airborne Infrared Surveillance (AIRS)		2,500		2,000
	Program efficiencies identified by MDA		-50,000	-25,000	-50,000
	Transferred to RDTE,DW Line 86 for execution		-119,000		-119,000
	Juniper Cobra (Note: Transferred to RDTE,DW Line 72)				-14,900
	Defense Agency Initiative (Note: Transferred to RDTE,DW Line 116 for execution)				-6,100
83	**SPACE SURVEILLANCE & TRACKING SYSTEM**	**331,525**	**286,167**	**272,525**	**233,125**
	Risk reduction for Follow-on Constellation		-45,069	-45,000	0
	Excessive Program Support		-2,289		0
	STSS Requirement Analysis		2,000		1,600
	STSS Program Restructure/Delay				-100,000
	STSS Follow-On - Program growth for program management support			-10,000	0
	STSS Program Wide Support			-4,000	0
77	**BALLISTIC MISSILE DEFENSE SYSTEM INTERCEPTOR**	**227,499**	**372,853**	**197,499**	**342,453**
	CG(X) Modular Launch System		2,000		1,600
	Excessive Program Support		-6,646		-6,646
	Program Acceleration		150,000		120,000
	Kinetic Energy Interceptor			-30,000	0
78	**BALLISTIC MISSILE DEFENSE TEST & TARGETS**	**586,150**	**586,150**	**636,150**	**626,150**
	Test Range Support and Upgrades			50,000	40,000
86	**BALLISTIC MISSILE DEFENSE C2BMC**	**258,913**	**460,703**	**248,913**	**450,703**
	Excessive Program Support		-3,210		-3,210
	Transferred from RDTE,DW Line 76 for execution		119,000		119,000
	Transferred from RDTE,DW Line 73 for execution		50,000		50,000
	Transferred from RDTE,DW Line 30 for execution		12,000		12,000
	Transferred from RDTE,DW Line 89 for execution		24,000		24,000
	C2BMC program growth			-10,000	-10,000
87	**BALLISTIC MISSILE DEFENSE HERCULES**	**53,658**	**52,824**	**53,658**	**52,824**
	Excessive Program Support		-834		-834
88	**BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT**	**48,787**	**50,235**	**48,787**	**49,735**
	Joint National Integration Center (JNIC)		2,500		2,000
	Excessive Program Support		-1,052		-1,052

R-1		Budget Request	House	Senate	Conference
89	**BALLISTIC MISSILE DEFENSE JOINT NATIONAL INTEGRATION**	**104,012**	**79,099**	**104,012**	**79,099**
	Excessive Program Support		-913		-913
	Transferred to RDTE,DW Line 86 for execution		-24,000		-24,000
80	**BALLISTIC MISSILE DEFENSE SYSTEMS CORE**	**482,016**	**431,788**	**387,416**	**416,788**
	Excessive Program Support		-15,228		-15,228
	Reduced program growth		-35,000	-50,000	-50,000
	Intelligence and Security - reduction only for Intelligence and Counterintelligence activities			-21,265	0
	Producibility and Manufacturing Technology			-23,335	0
81	**SPECIAL PROGRAMS - MDA**	**323,250**	**198,250**	**198,850**	**198,250**
	Classified reductions		-125,000	-124,400	-125,000
82	**AEGIS BMD**	**1,059,103**	**1,116,103**	**1,059,103**	**1,134,103**
	Ballistic Signal Processor/Open Architecture		22,000		16,000
	Upgrade 2 additional Aegis DDG's		20,000		0
	Asymmetric Defense Initiative		15,000		10,000
	AEGIS Upgrades for SM-3 and Ship Installs/Upgrades				49,000
84	**MULTIPLE KILL VEHICLES**	**271,151**	**274,251**	**221,151**	**231,529**
	Safe High Power (High Rate) Lithium Battery for MKV (Missiles) with Long Storage Life		3,100		2,480
	Multiple Engagement Payload (MEP) for the Standard Missile-3			-50,000	-62,900
	GBI/KEI Multiple Kill Vehicle Variant				25,000
	Defense Agency Initiative (Note: Transferred to RDTE,DW Line 116 for execution)				-4,202
85	**BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS**	**27,666**	**17,666**	**12,666**	**16,666**
	Space Test Bed		-10,000	-10,000	-10,000
	Space Experimentation Center			-5,000	-1,000
93	**COALITION WARFARE**	**14,047**	**10,047**	**14,047**	**10,047**
	Reduce Program Growth		-4,000		-4,000
94	**DEPARTMENT OF DEFENSE CORROSION PROGRAM**	**4,983**	**4,983**	**19,083**	**19,083**
	Department of Defense Corrosion Program			14,100	14,100
96	**HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB)**	**5,700**	**0**	**5,700**	**1,000**
	Program growth		-5,700		-4,700
100	**JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM**	**3,482**	**4,982**	**8,782**	**9,234**
	Secure Miniaturized Free Space Optical Communications		1,500		1,200
	Antenna, Diagnostic & Microwave Characterization Facility			1,300	1,300
	JET - Digital Aurora Radio Technology Program			4,000	3,252
100A	**PROMPT GLOBAL STRIKE (Note: Includes transfer from RDTE,DW Line 135)**	**0**	**100,000**		**100,000**
101	**DEPLOYMENT AND DISTRIBUTION ENTERPRISE TECHNOLOGY**	**25,000**	**10,000**	**25,000**	**15,000**
	Reduced Program Growth		-15,000		-10,000

R-1		Budget Request	House	Senate	Conference
104	**CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM**	**247,935**	**249,935**	**251,935**	**253,135**
	ParallelaVax Rapid Vaccine Testing Technology		2,000	2,000	2,000
	Rapid Identification of Biological Warfare Agents			2,000	1,600
	Joint Biological Agent Identification and Diagnostic System (Note: Transferred from RDTE,DW Line 34)				1,600
106	**JOINT ROBOTICS PROGRAM**	**2,911**	**7,911**	**2,911**	**6,911**
	Joint Robotics Initiative		5,000		4,000
116	**BUSINESS TRANSFORMATION AGENCY R&D ACTIVITIES**	**127,970**	**128,970**	**107,970**	**131,759**
	National Defense University Technology Research Program		1,000		1,000
	Program Adjustment			-20,000	-12,000
	Defense Agency Initiative (Note: Transferred from RDTE,DW Lines 76, 84, 154, & 157 for execution)				14,789
122	**JOINT COMMAND AND CONTROL PROGRAM (JC2)**	**70,283**	**70,283**	**55,283**	**58,283**
	Program adjustment			-15,000	-12,000
127	**TRAINING TRANSFORMATION (T2)**	**51,752**	**54,252**	**60,252**	**61,052**
	USJFCOM's Joint Warfighting Center (JWFC) Joint Training Blended Learning Initiative		2,500		2,000
	Agile Software Capability Intervention			2,000	1,600
	Playas Mobile Command, Control and Communications Shelter			2,500	2,500
	Playas Training and Research Center Joint Training Experiment			4,000	3,200
131	**CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT**	**133,772**	**144,272**	**145,772**	**148,172**
	Advanced SAM Hardware Simulator Development-ITEAMS		4,500	4,000	4,000
	Joint Gulf Range Complex Test and Training Interdependency Initiative		1,000		1,000
	UAV Systems and Operations Validation Program (USOVP)		2,000	5,000	4,000
	Range Tactical Data Link (TDL) & Relay Capability		3,000		2,400
	Pacific Region Interoperability Test and Evaluation Capability			3,000	3,000
132	**ASSESSMENTS AND EVALUATIONS**	**1,645**	**1,645**	**0**	**0**
	Transfer to RDTE,DW, Line 133			-1,645	-1,645
133	**THERMAL VICAR**	**7,822**	**7,822**	**9,467**	**9,467**
	Transfer from RDTE,DW Line 132			1,645	1,645

R-1		Budget Request	House	Senate	Conference
135	**TECHNICAL STUDIES, SUPPORT AND ANALYSIS**	**31,263**	**35,263**	**156,263**	**35,263**
	Capabilities Study for Improvised Explosive Devices Detection		1,000		1,000
	Countering Missile-related Technology Proliferation		2,000		2,000
	Foreign Test Range Analysis – Measurement and Signature Intelligence (MASINT)		1,000		1,000
	Prompt Global Strike Capability Development (Note: Transferred to RDTE, Line 100A)			125,000	0
140	**CLASSIFIED PROGRAM USD(P)**	**0**	**98,200**	**98,200**	**98,200**
	Classified Adjustment		98,200	98,200	98,200
150	**SMALL BUSINESS INNOVATION RESEARCH/CHALLENGE**	**2,162**	**3,162**	**2,162**	**3,162**
	Directed Energy Systems for UAV Payloads		1,000		1,000
151	**DEFENSE TECHNOLOGY ANALYSIS**	**11,927**	**11,927**	**13,927**	**13,727**
	Commodity Management Systems Consolidation			2,000	1,800
154	**DEFENSE TECHNICAL INFORMATION CENTER (DTIC)**	**51,800**	**51,800**	**51,800**	**51,515**
	Defense Agency Initiative (Note: Transferred to RDTE,DW Line 116 for execution)				-285
157	**MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT)**	**52,992**	**52,992**	**52,992**	**48,790**
	Defense Agency Initiative (Note: Transferred to RDTE,DW Line 116 for execution)				-4,202
158	**BUDGET AND PROGRAM ASSESSMENTS**	**5,750**	**0**	**5,750**	**1,750**
	Program Reduction		-5,750		-4,000
161	**SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES**	**28,652**	**28,652**	**36,452**	**34,892**
	Enhanced Simulation Capabilities for Information Operations			7,800	6,240
167	**MANAGEMENT HEADQUARTERS - MDA**	**85,906**	**85,906**	**80,906**	**80,906**
	Management HQ reduction			-5,000	-5,000
177	**CRYPTOLOGIC ACTIVITIES**			**9,900**	**7,920**
	National Biometrics Security Project			4,000	3,200
	MatchBox (Biometrics Analysis and Identification)			5,900	4,720
190	**INFORMATION SYSTEMS SECURITY PROGRAM**	**13,256**	**16,256**	**13,256**	**15,656**
	Security for Critical Communication Networks (SCCN)		3,000		2,400
198	**NET-CENTRIC ENTERPRISE SERVICES (NCES)**	**43,424**	**43,424**	**23,424**	**38,424**
	Execution delays			-20,000	-5,000
200	**SPECIAL APPLICATIONS FOR CONTINGENCIES**	**15,687**	**17,687**	**15,687**	**17,287**
	Mobile Optical Wireless Networking for Intelligence, Surveillance, and Reconnaissance		2,000		1,600
202	**DEFENSE GEOSPATIAL-INTELLIGENCE PROGRAM**			**1,000**	**2,800**
	Digital Data High Quality Recorder			1,000	800
	Internet Observer and Inner View Insider Threat Mitigation Tools (Note: Transferred from Senate General Provision 8128)				2,000

R-1		Budget Request	House	Senate	Conference
204	**FOREIGN COUNTERINTELLIGENCE ACTIVITIES**	**0**	**0**	**2,000**	**1,600**
	Credibility Assessment Research Initiative			2,000	1,600
207	**POLICY R&D PROGRAMS**	**4,627**	**5,627**	**10,627**	**10,627**
	Improved Collapsible Urethane Fuel Storage Tanks (Note: Transferred to RDTE,DW Line 226)		1,000		0
	Pacific Disaster Center			6,000	6,000
215	**DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS**	**15,800**	**17,800**	**15,800**	**17,400**
	Constant Look Operation Support Environment (CLOSE)		2,000		1,600
219	**COMBATANT COMMAND INTELLIGENCE OPERATIONS**			**14,000**	**12,400**
	Armed Forces Health and Food Supply Research			3,000	3,000
	Biological and Chemical Warfare Online Respository of Technical Holdings System			1,000	800
	Missile-related Threat Representation - Shared			2,000	1,600
	National Consortium for MASINT Research			3,000	3,000
	Pat Roberts Intelligence Scholars Program (PRISP)			2,000	1,600
	Project FORTITUDE			3,000	2,400
226	**INDUSTRIAL PREPAREDNESS**	**20,114**	**33,114**	**56,114**	**57,714**
	Castings for Improved Defense Readiness		2,000	2,000	2,000
	Corrosion Resistant Ultrahigh-Strength Steel for Landing Gear		2,000		1,600
	Military High Pressure Packaging Project		2,000	4,000	3,200
	Northwest Manufacturing Initiative		1,000		1,000
	Technology Roadmapping and Strategic Investment Planning		2,000		1,600
	Advanced Microcircuit Emulation (AME)		4,000		3,200
	Industrial Base Innovation Fund			30,000	24,000
	Collapsible Urethane Fuel Storage Tanks (Note: Transferred from RDTE,DW Line 207)				1,000
229	**NATO JOINT STARS**	**41,466**	**31,466**	**41,466**	**31,466**
	Execution Delays		-10,000		-10,000
232	**SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED DEVELOPMENT**	**60,750**	**81,909**	**56,909**	**56,909**
	Aviation Systems Advanced Development		-3,841		-3,841
	GPS Extension Program (Note: Transferred from RDT&E, AF, Line 29 and transferred to RDTE,N Line 17 in Conference)		25,000		0
	Excess to requirement			-3,841	0

R-1		Budget Request	House	Senate	Conference
233	**SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT**	**42,262**	**54,262**	**55,612**	**60,362**
	Covert WPM Waveform Modules		2,000	2,000	2,000
	Special Operation Forces Advanced Mission Planning Tools		2,000	4,000	3,200
	Expendable Airdrop Delivery Systems (EADS)		1,000		800
	Command and Control Mission Manager (C2MM) Spiral 5		2,000		1,600
	Semi-autonomous or Unattended Psychological Operations and Reconnaissance Tool (SUPPORT)		2,000		1,600
	Small Boat Family Integrated Combat System		2,000		1,600
	SOF Special Purpose Tagging, Tracking and Locating Tool Kit		1,000		1,000
	Communications Enhancements to Fielded TACTI-NET Systems to Extend Range and Increase Capacity			1,000	800
	Multi-User Panoramic Synthetic Vision System			3,000	2,400
	NSW RIB Payload Capacity Project			2,100	2,100
	SOCOM Computer Research			1,250	1,000
234	**SPECIAL OPERATIONS TACTICAL SYSTEMS DEVELOPMENT**	**35,783**	**46,283**	**52,383**	**63,263**
	DF Light: Advanced Packaging and Direction Finding in Support of Joint Threat Warning System		1,500		1,200
	Unattended SIGINT Node		4,000		3,200
	Integrated Bridge System		1,000		1,000
	SOF Mission Training and Preparation Systems Interoperability (Note: Transferred to OM,DW SOCOM)		1,500		0
	SOCOM Imagery Dissemination System		2,000		1,600
	Tactical SIGINT and Geo-location Cognitive Analysis		500		400
	Advanced, Long Endurance Unattended Ground Sensor Technologies			2,600	2,080
	Advanced Tactical Threat Warning Radio (ATTWR)			2,000	1,600
	Application Specific Integrated Circuit (ASIC) development			4,000	4,000
	Automated Threat Warning for Improved Warfighter Survivability			2,000	1,600
	Joint METOC Program (SOCOM)			2,000	1,600
	Multi-Spectral Laboratory and Analytical Services Program			1,000	800
	Picoceptor and Processor for Manportable Threat Warning			3,000	2,400
	LAW/ASM Heat Rocket Confined Spaces (Note: transferred from P,DW Line 73)				6,000
235	**SOF OPERATIONAL ENHANCEMENTS**	**53,418**	**58,118**	**55,518**	**59,398**
	Partnership for Defense Innovation Wi-Fi Test Laboratory		2,700		2,700
	Application Specific Integrated Circuits Fabrication Facility		2,000		1,600
	Parser Multi-Level Security			2,100	1,680
240	**UNMANNED VEHICLES (UV)**	**1,500**	**1,500**	**1,500**	**6,500**
	Trident Reach				5,000

FOCUS CENTER RESEARCH PROGRAM

The conference agreement provides $18,000,000 for the FOCUS Center Research Program, which is $8,000,000 above the request. The FOCUS Center Research Program is a jointly funded program between the Department of Defense and the semiconductor industry to support university research to advance semiconductor technology. The conferees strongly encourage the Department of Defense to fully fund the $20,000,000 requirement for the program within the Defense Advanced Research Projects Agency's Defense Research Sciences Program Element (0601011E) in future budget submissions.

MULTIPLE KILL VEHICLE

The conferees agree to reduce the budget request for the Multiple Engagement Payload (MEP) for the Standard Missile-3 by $62,900,000, the entire budget request for that program. The conferees are concerned that the Missile Defense Agency (MDA) does not have the resources to adequately fund both MEP and the Multiple Kill Vehicle (MKV) for the Ground-Based Interceptor (GBI) and the Kinetic Energy Interceptor (KEI). Thus, the conferees agree to increase the MKV for the GBI and KEI by $25,000,000 in order to restore reductions that the MDA has annually taken out of this program. The conferees further agree with the Senate language that directs that no funding in the Aegis Ballistic Missile Defense program element can be used for the MKV program. Additionally, the conferees direct that the Multiple Kill Vehicle, PE 0603894 is designated as a congressional special interest item subject to prior approval reprogramming procedures.

CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM

The conference agreement provides an increase of $20,000,000 for the Chemical and Biological Defense Initiative. The Secretary of Defense is directed to allocate these funds among the programs that yield the greatest gain in our chem-bio defensive posture. The conferees further direct that such funds may not be obligated until 15 days after a report, including a description of projects to be funded, is provided to the congressional defense committees.

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY

The conferees provide $2,979,808,000 for DARPA, a reduction of $105,809,000 from the request. The conferees direct the Director of DARPA to submit to the congressional defense committees no later than 60 days after enactment of this Act a report that details by program element and program the application of undistributed reductions made in this Act.

INDUSTRIAL BASE INNOVATION FUND

The conferees provide $24,000,000 for the Industrial Base Innovation Fund to ensure that investments are made to address shortfalls in manufacturing processes and technologies in support of the Department's long-term and short-term needs. The conferees direct that funds may not be obligated from the Industrial Base In-

novation Fund until 15 days after a report detailing the projects to be funded is provided to the congressional defense committees.

NEW STARTS

The conferees direct that no more than 15 percent of funding provided under this heading for new start programs under the cognizance of the Director, Defense Research and Engineering, may be obligated until five days after the congressional defense committees receive a report that details those programs' descriptions and objectives as well as performance metrics, transition schedules and sunset provisions.

OPERATIONAL TEST AND EVALUATION, DEFENSE

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

(In thousands of dollars)

		Budget	House	Senate	Conference
	OPERATIONAL TEST & EVAL, DEFENSE				
	RDT&E MANAGEMENT SUPPORT				
2	OPERATIONAL TEST AND EVALUATION	48,627	48,627	48,627	48,627
4	LIVE FIRE TESTING	11,133	11,133	11,133	11,133
6	OPERATIONAL TEST ACTIVITIES AND ANALYSES	120,504	120,504	120,504	120,504
	TOTAL, RDT&E MANAGEMENT SUPPORT	180,264	180,264	180,264	180,264
	TOTAL, OPERATIONAL TEST & EVAL, DEFENSE	180,264	180,264	180,264	180,264