

TITLE IV

RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Funds appropriated under this title provide the resources required to conduct a program of research, development, test and evaluation, including research in basic science, applied research, advanced technology development, demonstration and validation, engineering and manufacturing development, and operational systems development.

The President's fiscal year 2007 budget requests a total of \$73,156,008,000 for research, development, test and evaluation appropriations.

SUMMARY OF COMMITTEE ACTION

The Committee recommends research, development, test and evaluation appropriations totaling \$72,998,272,000 for fiscal year 2007. This is \$157,736,000 below the budget estimate.

Committee recommended research, development, test and evaluation appropriations for fiscal year 2007 are summarized below:

SUMMARY OF RESEARCH, DEVELOPMENT, TEST AND EVALUATION APPROPRIATIONS

[In thousands of dollars]

Account	2007 budget estimate	Committee recommendation	Change from budget estimate
Research, Development, Test and Evaluation:			
Army	10,855,559	11,245,040	+ 389,481
Navy	16,912,223	17,048,238	+ 136,015
Air Force	24,396,767	23,974,081	- 422,686
Defense-Wide	20,809,939	20,543,393	- 266,546
Operational Test and Evaluation, Defense	181,520	187,520	+ 6,000
Total	73,156,008	72,998,272	- 157,736

COMMITTEE RECOMMENDATIONS

The Committee has displayed recommended adjustments in tables presented under each appropriation account.

These adjustments reflect the following Committee actions: elimination of funds requested for programs which are lower priority, duplicative, or not supported by firm requirements in out-year development or procurement appropriations; deletion of excess funds based on program delays or slow execution; addition of funds to reflect congressional priorities and to rectify shortfalls in the budget estimate; and implementation of recommendations in S. 2677, the National Defense Authorization Act for Fiscal Year 2007.

The Committee directs 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 OVERVIEW

F-35 Joint Strike Fighter.—The Committee is disappointed that the Department of Defense did not include funding for the F-35 Joint Strike Fighter 2nd Engine Source in the fiscal year 2007 budget request. Although the Committee recognizes that the Department of Defense faces difficult budget challenges, the Committee also believes it is premature to cancel the second engine source. Experience with the F-16 Fighter program engine competition led to a more reliable, better performing and lower cost engine. The Committee believes that competition for the F-35 engine is critical to procuring the best value engine at the lowest price and that competition will likely lead to an overall savings across the life cycle of the fighter program. Therefore, the Committee recommends an additional \$170,000,000 to each of the Navy and Air Force Research, Development, Test and Evaluation accounts. The Committee also directs the Department of Defense to fund the continued development of both engines in future budget submissions.

Alternative Diesel Fuel.—The Committee notes the recent developments relating to the conversion of coal to liquid fuels. Demonstration projects in the United States have produced high-quality, ultra clean synthetic diesel fuels that provide improved efficiency and improved emissions compared to traditionally produced diesel fuel. The Committee encourages the Department of Defense to continue to explore the use of Fischer—Tropsch fuels as alternative sources for DOD’s fuel requirements. Further, the Committee requests that the Under Secretary for Acquisition, Technology, and Logistics prepare a report for the congressional defense committees on the Defense Department’s assessment, use, and plans to continue to explore the potential of synthetic fuels, to include fuels produced through the Fischer—Tropsch process.

Robotic Mobility Platforms.—The Committee is encouraged by developments in the area of self-balancing electronic transportation systems and electronic robotic detection and response platforms, both in two-wheeled and four-wheeled versions. These devices may serve as viable options to augment or supplement specific manpower applications to include detection, security, assessment, and payload movement. In addition, these devices consume zero combustible fuels and emit no discernable infrared signature or audio sound. In an effort to better understand the possible benefits of robotic mobility platforms, the Committee encourages the Department to acquire and evaluate these platforms and their potential use in high-risk areas such as Afghanistan and Iraq. Evaluation should include the impacts of these platforms to enhance or replace underutilized vehicles and devices, reductions in costs attributable to these replacement technologies, the impact on explosive detection and detonation, and the ability to provide low cost manpower alternatives as they pertain to detection, investigation, and mitigation.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY

Appropriations, 2006	\$11,061,195,000
Budget estimate, 2007	10,855,559,000
House allowance	11,834,882,000
Committee recommendation	11,245,040,000

The Committee recommends an appropriation of \$11,245,040,000. This is \$389,481,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
	RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY					
	BASIC RESEARCH:					
1	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	19,402	19,402	19,402		
2	DEFENSE RESEARCH SCIENCES	137,568	157,968	162,168	+24,600	+4,200
3	UNIVERSITY RESEARCH INITIATIVES	68,545	84,545	72,545	+4,000	-12,000
4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	86,416	90,066	105,166	+18,750	+15,100
	TOTAL BASIC RESEARCH	311,931	351,981	359,281	+47,350	+7,300
	APPLIED RESEARCH:					
6	MATERIALS TECHNOLOGY	18,822	40,122	70,022	+51,200	+29,900
7	SENSORS AND ELECTRONIC SURVIVABILITY	38,428	52,678	45,728	+7,300	-6,950
8	TRACTOR HIP	8,466	8,466	8,466		
9	AVIATION TECHNOLOGY	32,804	40,804	38,804	+6,000	-2,000
10	ELECTRONIC WARFARE TECHNOLOGY	19,218	36,018	22,718	+3,500	-13,300
11	MISSILE TECHNOLOGY	59,439	68,439	82,939	+23,500	+14,500
12	ADVANCED WEAPONS TECHNOLOGY	19,430	19,430	26,930	+7,500	+7,500
13	ADVANCED CONCEPTS AND SIMULATION	16,181	21,681	23,181	+7,000	+1,500
14	COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	59,304	98,904	73,304	+14,000	-25,600
15	BALLISTICS TECHNOLOGY	52,221	57,021	57,221	+5,000	+200
16	CHEMICAL SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY	2,212	13,212	9,212	+7,000	-4,000
17	JOINT SERVICE SMALL ARMS PROGRAM	6,247	6,247	6,247		
18	WEAPONS AND MUNITIONS TECHNOLOGY	35,344	109,944	90,094	+54,750	-19,850
19	ELECTRONICS AND ELECTRONIC DEVICES	42,175	85,975	74,175	+32,000	-11,800
20	NIGHT VISION TECHNOLOGY	23,907	45,857	25,907	+2,000	-19,950
21	COUNTERMINE SYSTEMS	22,088	22,088	30,588	+8,500	+8,500
22	HUMAN FACTORS ENGINEERING TECHNOLOGY	18,858	41,858	25,358	+6,500	-16,500
23	ENVIRONMENTAL QUALITY TECHNOLOGY	17,923	17,923	17,323	-600	-600
24	COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY	21,193	57,493	26,693	+5,500	-30,800
25	COMPUTER AND SOFTWARE TECHNOLOGY	3,844	6,844	5,644	+1,800	-1,200
26	MILITARY ENGINEERING TECHNOLOGY	50,098	50,698	48,948	-1,150	-1,750
27	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	16,200	16,200	16,200		
28	WARFIGHTER TECHNOLOGY	25,436	38,536	42,236	+16,800	+3,700
29	MEDICAL TECHNOLOGY	75,407	252,907	105,107	+29,700	-147,800

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
	TOTAL, APPLIED RESEARCH	685,245	1,209,345	973,045	+ 287,800	- 236,300
	ADVANCED TECHNOLOGY DEVELOPMENT:					
30	WARRIGHTER ADVANCED TECHNOLOGY	45,666	63,666	62,166	+ 16,500	- 1,500
31	MEDICAL ADVANCED TECHNOLOGY	50,757	357,907	114,257	+ 63,500	- 243,650
32	AVIATION ADVANCED TECHNOLOGY	64,654	95,654	101,454	+ 36,800	+ 5,800
33	WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	74,717	100,117	77,717	+ 3,000	- 22,400
34	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY	109,952	185,802	181,052	+ 71,100	- 4,750
35	COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHNOLOGY	10,851	12,651	10,851	.....	- 1,800
36	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	6,794	6,794	11,794	+ 5,000	+ 5,000
37	ELECTRONIC WARFARE ADVANCED TECHNOLOGY	44,022	55,322	51,022	+ 7,000	- 4,300
38	TRACTOR HIKE	9,324	9,324	.....	.....	.....
39	NEXT GENERATION TRAINING & SIMULATION SYSTEMS	18,296	19,296	22,296	+ 4,000	+ 3,000
40	TRACTOR ROSE	5,183	5,183	5,183	.....	.....
41	IED DEFEAT TECHNOLOGY DEVELOPMENT .....	.....	1,800	.....	.....	- 1,800
42	EXPLOSIVES DEMILITARIZATION TECHNOLOGY	10,376	18,376	26,276	+ 15,900	+ 7,900
43	MILITARY HIV RESEARCH	7,042	15,042	7,042	.....	- 8,000
44	COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT	7,497	9,497	7,497	.....	- 2,000
45	GLOBAL SURVEILLANCE/AIR DEFENSE/PRECISION STRIKE TECHN	12,995	12,995	12,995	.....	.....
46	ELECTRONIC WARFARE TECHNOLOGY	18,612	28,412	18,612	.....	- 9,800
47	MISSILE AND ROCKET ADVANCED TECHNOLOGY	42,127	65,627	55,294	+ 13,167	- 10,333
48	TRACTOR CAGE	19,192	19,192	19,192	.....	.....
49	LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY	25,554	27,054	30,554	+ 5,000	+ 3,500
50	JOINT SERVICE SMALL ARMS PROGRAM	7,202	9,202	7,202	.....	- 2,000
51	NIGHT VISION ADVANCED TECHNOLOGY	44,307	68,107	64,307	+ 20,000	- 3,800
52	ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS	14,089	18,089	14,089	.....	- 4,000
53	MILITARY ENGINEERING ADVANCED TECHNOLOGY	7,848	19,848	26,348	+ 18,500	+ 6,500
54	ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECHNOLOGY	64,604	76,004	60,736	- 3,868	- 15,268
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	721,661	1,300,961	997,260	+ 275,599	- 303,701
	DEMONSTRATION & VALIDATION:					
55	UNIQUE ITEM IDENTIFICATION (UID)	1,520	9,520	1,520	.....	- 8,000
56	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	11,233	68,933	75,233	+ 64,000	+ 6,300
57	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE)	11,771	11,771	33,771	+ 22,000	+ 22,000
58	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	143,417	149,117	121,417	- 22,000	- 27,700

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
102	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	8,136	8,136	8,136		
103	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS)—SDD	19,596	21,896	19,596		-2,300
107	COMBINED ARMS TACTICAL TRAINER (CATT) CORE	39,901	40,901	38,801	-1,100	-2,100
108	JOINT NETWORK MANAGEMENT SYSTEM	5,187	5,187	5,187		
110	WEAPONS AND MUNITIONS—SDD	130,581	138,081	80,739	-49,842	-57,342
111	LOGISTICS AND ENGINEER EQUIPMENT—SDD	40,301	43,801	41,801	+1,500	-2,000
112	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—SDD	10,783	15,283	10,783		-4,500
113	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT	14,509	24,109	19,009	+4,500	-5,100
114	LANDMINE WARFARE/BARRIER—SDD	118,078	122,078	90,078	-28,000	-32,000
115	ARTILLERY MUNITIONS	102,554	102,554	102,554		
116	COMBAT IDENTIFICATION	39	39	39		
117	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE	69,172	69,172	61,172	-8,000	-8,000
119	RADAR DEVELOPMENT	2,527	2,527	2,527		
120	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBs)	61,194	21,994		-61,194	-21,994
121	FIREFINDER	70,151	70,151	55,151	-15,000	-15,000
122	SOLDIER SYSTEMS—WARRIOR DEMVAL	27,498	27,498	30,498	+3,000	+3,000
123	ARTILLERY SYSTEMS	1,650	1,650	1,650		
125	PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)	329,583	329,583	329,583		
126	NUCLEAR ARMS CONTROL MONITORING SENSOR NETWORK	7,428	7,428	7,428		
127	INFORMATION TECHNOLOGY DEVELOPMENT	70,185	61,385	63,685	-6,500	+2,300
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	6,239,030	5,890,330	5,873,994	-365,036	-16,336
	RD&E MANAGEMENT SUPPORT:					
128	THREAT SIMULATOR DEVELOPMENT	21,180	23,180	23,180	+2,000	
129	TARGET SYSTEMS DEVELOPMENT	10,928	13,928	12,928	+2,000	-1,000
130	MAJOR T&E INVESTMENT	64,953	67,453	64,953		-2,500
131	RAND ARROYO CENTER	20,171	20,171	22,171	+2,000	+2,000
132	ARMY KWAJALEIN ATOLL	178,891	178,891	178,891		
133	CONCEPTS EXPERIMENTATION PROGRAM	21,626	25,126	24,626	+3,000	-500
135	ARMY TEST RANGES AND FACILITIES	389,840	389,840	389,840		
136	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	74,066	77,066	83,066	+9,000	+6,000
137	SURVIVABILITY/LETHALITY ANALYSIS	40,780	42,780	45,780	+5,000	+3,000
138	DOD HIGH ENERGY LASER TEST FACILITY	16,622	16,622	16,622		
139	AIRCRAFT CERTIFICATION	4,580	4,580	4,580		

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
183	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	68,075	101,375	102,575	+34,500	+1,200
184	NATO JOINT STARS	688	688	688		
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,289,268	1,335,441	1,343,036	+53,768	+7,595
999	CLASSIFIED PROGRAMS	3,700	8,200	3,700		-4,500
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY	10,855,559	11,834,882	11,245,040	+389,481	-589,842

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
2	DEFENSE RESEARCH SCIENCES	137,568	162,168	+ 24,600
	Sci Prob with Military Applications/Network Behavior Research ..			- 2,000
	Advanced Carbon Nanotechnology Program			+ 4,000
	Advanced Research and Technology Initiative			+ 5,500
	Army Landscape Dynamics Support Program			+ 1,000
	Biological Raman and Optical Imaging			+ 1,000
	Document Exploitation			+ 1,000
	Flexible Electronics Research Initiative			+ 1,000
	Fuel Logistics Reduction through Enhanced Engine Performance			+ 1,000
	Illicit Narcotics Lab Detection System			+ 3,000
	Integrated Nanosensor Technologies for NBC Detection Applications			+ 2,000
	Nanomaterials for ISR			+ 1,000
	Optical Technologies Research			+ 2,000
	Organic Semiconductor Modeling and Simulation Research			+ 2,100
	Terrain Atmosphere Research to Optimize Battlefield Operations			+ 2,000
3	UNIVERSITY RESEARCH INITIATIVES	68,545	72,545	+ 4,000
	Advanced Precision Supply Parts Manufacturing			+ 2,000
	Low Temperature Vehicle Performance Research			+ 1,000
	Nanocrystal Therapeutic Agents and Screening Tools			+ 1,000
4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	86,416	105,166	+ 18,750
	Automotive Research			+ 2,000
	Army Corrosion Control: Inhibition and Detection			+ 1,500
	Center for Education in Nanoscience and Nanotechnology			+ 2,000
	Center for Ferroelectric Electronic-Photonic Nanodevices			+ 3,000
	Center for Information Assurance and Cyberwarfare			+ 1,000
	Integrated Systems in Sensing, Imaging and Communications Research			+ 1,000
	Nanotubes Composite Materials Research			+ 3,000
	National Center for Infotonics			+ 2,000
	National Network Security Test Bed			+ 2,000
	Transparent Nanocomposite Armor			+ 250
	Visualization for Training and Simulation in Urban Terrains			+ 1,000
6	MATERIALS TECHNOLOGY	18,822	70,022	+ 51,200
	Airfield Matting System Replacement			+ 2,900
	Composite Materials Technology for Future Combat System			+ 2,000
	Control System for Laser Powder Deposition			+ 300
	Erosion Resistant Surface Engineering for Helicopter Compressor Blades			+ 4,000
	Future Affordable Multi-Utility Materials for Future Combat System			+ 2,000
	Improvised Explosive Device Simulation in Different Soils			+ 500
	LASSO Ground Mobility Vehicle Testing			+ 3,000
	Materials Joining for Army Weapons Systems			+ 3,000
	MEMS Sensors for Rolling Element Bearings			+ 3,000
	Multifunctional Nanostructured Materials for Future Combat System			+ 4,000
	Munitions Shape Charge Control Research			+ 6,000
	Nanomanufacturing of Multifunctional Sensors			+ 2,000
	Precision Polishing of Large Optics			+ 2,000
	Spinel Tactical Armor Manufacturing Technology			+ 5,000
	Structural Reliability of Smart Munitions and Lightweight Structures			+ 2,000
	Thermal Sprays for Polymeric-Based Ballistic Mitigation Materials			+ 4,000
	Ultrasonic Consolidation for Advanced Materials Fabrication			+ 3,500

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
7	SENSORS AND ELECTRONIC SURVIVABILITY	38,428	45,728	+ 7,300
	Biotechnology Applied Research			- 2,000
	Center for Advanced Microelectronics Manufacturing			+ 3,000
	Lighter-Than-Air Unmanned Aerial Vehicle Multirole Technologies			+ 3,300
	Prometheus Spectrometer System and THazer Free Electron Laser			+ 3,000
9	AVIATION TECHNOLOGY	32,804	38,804	+ 6,000
	Composite Small Main Rotor Blades			+ 4,000
	Limited Visibility Landing System			+ 2,000
10	ELECTRONIC WARFARE TECHNOLOGY	19,218	22,718	+ 3,500
	Silver Fox Unmanned Aerial Vehicle			+ 3,500
11	MISSILE TECHNOLOGY	59,439	82,939	+ 23,500
	Enhanced Area Protection and Survivability			+ 2,500
	LENS X Hypervelocity Ground Testing			+ 3,500
	MARIAH II Hypersonic Wind Tunnel Development Program			+ 3,000
	Missile Aero-propulsion Computer System Modernization			+ 10,000
	Nanotechnology Research with AMRDEC			+ 1,000
	Novel Lightweight Armor Material for Insensitive Munitions			+ 1,000
	Unmanned Systems Initiative at AMRDEC			+ 2,500
12	ADVANCED WEAPONS TECHNOLOGY	19,430	26,930	+ 7,500
	Army Missile and Space Technology Initiative			+ 7,500
13	ADVANCED CONCEPTS AND SIMULATION	16,181	23,181	+ 7,000
	RedOwl Acoustic Targeting Device/Photonics Center			+ 7,000
14	COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	59,304	73,304	+ 14,000
	Program Reduction			- 5,000
	Advanced Composite Materials Research			+ 5,000
	Advanced Electrical Drive			+ 2,500
	Advanced Manufacture of Lightweight Materials and Components			+ 1,000
	Ground Vehicle Reliability Prediction and Optimization			+ 1,000
	HMMWV Hybrid Electric Conversion Technology			+ 1,000
	Hydrogen PEM Ambient Pressure Fuel Cell Medium/Heavy-Duty Vehicle			+ 3,000
	Light Weight Composite Brake for Armored Wheeled Vehicles			+ 1,500
	Maturation and User Evaluation of Hybrid Electric XM1124 HMMWVs			+ 3,000
	Military Fuels Research Program			+ 1,000
15	BALLISTICS TECHNOLOGY	52,221	57,221	+ 5,000
	Laser Based Explosives—Chem/Bio Standoff and Point Detector			+ 5,000
16	CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY	2,212	9,212	+ 7,000
	Battlefield Production of Improved Vaporous Hydrogen Peroxide			+ 6,000
	Nanocrystalline Solid Decontamination Technology			+ 1,000
18	WEAPONS AND MUNITIONS TECHNOLOGY	35,344	90,094	+ 54,750
	Active Coatings Technology			+ 2,000
	Army Center of Excellence in Acoustics			+ 5,700
	Center for Micro/Nano Systems and Nanotechnology			+ 3,500
	Electroconversion of Energetic Materials			+ 5,000
	Engineered Surfaces for Weapons Life Extension			+ 5,000
	Fatigue Odometer for Vehicle Components and Gun Barrels Project			+ 3,000
	Green Armament and Rangesafe Technology			+ 3,000
	High Power Electrolytic Super-Capacitors Based on Conducting Polymers			+ 4,000
	Non-Nuclear Earth Penetrator			+ 3,000
	Parts-on-Demand for CONUS Operations			+ 3,850
	Precision Manufacturing Initiative			+ 3,000
	Rarefaction Wave Gun			+ 2,500
	Steering Guided Munitions and Projectiles with Microactuators ..			+ 2,000
	Titanium Extraction Mining and Process Engineering Research ..			+ 4,000
	Toxin Guard Research			+ 1,700

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Transition Laser Engineered Shaping Technology			+ 1,000
	Unmanned Ground Vehicle Weaponization			+ 2,500
19	ELECTRONICS AND ELECTRONIC DEVICES	42,175	74,175	+ 32,000
	Compact Tactical Laser Program			+ 3,000
	Miniature Tactical Energy Systems Development			+ 1,700
	Novel Zinc Air Power Sources			+ 2,000
	PEM Fuel Cell Tactical Quiet Generators			+ 2,500
	Portable Energy Devices			+ 4,800
	Portable Solid Oxide Fuel Cell C/JP-8 Demonstrator			+ 2,000
	Renewable Energy for Military Applications			+ 1,500
	Revolutionary 1.5V Alkaline			+ 1,500
	Revolutionary Lithium Metal Air Technology			+ 2,000
	Soldier Portable Solid Fuel Hydrogen Generator			+ 3,000
	Tactical Jet-Fueled Fuel Cell Generator			+ 3,000
	Transcritical Carbon Dioxide Environmental Control Unit			+ 5,000
20	NIGHT VISION TECHNOLOGY	23,907	25,907	+ 2,000
	Small Business Infrared Materials Manufacturing—Silicon Alternatives			+ 2,000
21	COUNTERMINE SYSTEMS	22,088	30,588	+ 8,500
	Biological Detection of Unexploded Ordnance and Land Mines			+ 5,000
	Mapping and Detection of Unexploded Ordnance			+ 2,500
	Small Synthetic Aperture Radar Buried Mine Detection			+ 1,000
22	HUMAN FACTORS ENGINEERING TECHNOLOGY	18,858	25,358	+ 6,500
	High Optempo Performance Soldier Training			+ 4,000
	Team Performance and Optimization Research			+ 2,500
23	ENVIRONMENTAL QUALITY TECHNOLOGY	17,923	17,323	- 600
	Program Reduction			- 3,000
	Chemical Materials and Environmental Modeling Project			+ 2,400
24	COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY	21,193	26,693	+ 5,500
	Innovative Wireless Technologies			+ 2,000
	Nanophotonic Device Development			+ 1,000
	Portable Flexible Communication Display Devices			+ 2,500
25	COMPUTER AND SOFTWARE TECHNOLOGY	3,844	5,644	+ 1,800
	Biologically-Inspired Security Infrastructure for Tactical Environments			+ 1,800
26	MILITARY ENGINEERING TECHNOLOGY	50,098	48,948	- 1,150
	Topographical Research			- 2,000
	Airborne Threats			+ 850
28	WARFIGHTER TECHNOLOGY	25,436	42,236	+ 16,800
	Advanced Warfighter Sustainment Systems for the 21st Century			+ 2,000
	Biosecurity Research for Soldier Food Safety			+ 2,000
	Combat Effective Facial Armor			+ 2,000
	Electrochemical Field-Deployable System for Potable Water Generation			+ 1,000
	Flexible Monolithically Integrated Solar Panels on a Polymer Substrate			+ 3,000
	Improved Shelf-life for Vegetables			+ 3,000
	Inorganic Metallic Barriers for Chem-Bio Structures			+ 2,000
	Next Generation Chem-Bio Protection Suit			+ 1,800
29	MEDICAL TECHNOLOGY	75,407	105,107	+ 29,700
	Advanced Bio-Engineering for Enhancement of Soldier Survivability			+ 1,000
	Carbon Nanotube Production			+ 1,000
	Combat Casualty Care—Battlefield Wounds			+ 6,000
	Hibernation Genomics			+ 3,500
	High Technology Mass Spectrometry Laboratory			+ 1,500
	Medical Image Database Holographic Archiving Library System			+ 1,000
	Military Alternative Medicine Research			+ 5,000
	Neuroprosthetics and BioMEMS Development Project			+ 1,000
	Orthopedic Extremity Trauma Research			+ 4,000
	Rapid Wound Healing Technology Development			+ 1,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Respiratory Bio-Defense			+ 3,000
	Science, Humanitarian Intervention, Education, and Leadership for Disasters			+ 1,700
30	WARFIGHTER ADVANCED TECHNOLOGY	45,666	62,166	+ 16,500
	Future Force Warrior			- 5,000
	Chemical/Biological Agent Protection			+ 3,000
	High-Pressure/Microwave Meals-Ready-to-Eat Processing			+ 6,000
	Mosaic Extremity Protection			+ 1,000
	Multifunctional Protective Packaging Technology			+ 3,000
	NBC Integrated Protection Membrane-Shelters			+ 3,500
	Silicon Based Solid Oxide Micro Fuel Cell on a Chip			+ 3,000
	Small Business Development and Transition			+ 2,000
31	MEDICAL ADVANCED TECHNOLOGY	50,757	114,257	+ 63,500
	Advanced Lower Limb Prosthesis			+ 2,000
	Advanced Surface Technologies for Prosthetic Development			+ 3,000
	Biochemical-Organic-Radiological-Disaster Educational Response			+ 2,000
	Bio-Surveillance in a Highly Mobile Population			+ 2,000
	Brain, Biology and Machine			+ 2,500
	Center for Integration of Medicine and Innovative Technology			+ 5,000
	Chitosan Based Burn Dressing			+ 4,800
	Enhanced Blood Delivery and Preservation System			+ 2,000
	Extra Corporeal Membrane Oxygenation at Tripler			+ 2,000
	Fort Detrick Technology Transfer Initiative			+ 1,500
	Hand Transplant Technologies			+ 3,000
	Intravenous Membrane Oxygenator			+ 1,000
	Medical Imaging			+ 1,000
	Medical Modeling and Simulation Through Synthetic Genes			+ 2,000
	Minimally Invasive Removal of Ballistic Foreign Bodies			+ 1,200
	National Bioterrorism Civilian Medical Response Center			+ 5,000
	Pharmacological Countermeasures to Ionizing Radiation			+ 4,000
	Plasma Sterilizer			+ 1,000
	Resuscitation Research			+ 3,000
	Robotic Telesurgery Research			+ 5,000
	Soldier Biomaterials Institute for Acute and Regenerative Care			+ 4,000
	Soldier Mounted Eye Tracking and Control Systems			+ 2,500
	Troop Recruitment Improvement			+ 1,000
	Ultra-High Speed MEMS Electronic Cell Sorter			+ 3,000
32	AVIATION ADVANCED TECHNOLOGY	64,654	101,454	+ 36,800
	UAV Systems Demonstration			- 15,700
	Joint Heavy Lift			- 3,000
	Composite Tail for Armed Reconnaissance Helicopter			+ 2,000
	Excalibur Unmanned Combat Aerial Vehicle			+ 10,000
	Fuel Cell for Mobile Robotic Systems Project			+ 1,000
	Helmet-Mounted Display/Visor Projection			+ 3,000
	Improved VAROC/UAV Compression System Development			+ 4,000
	Integrated Aircraft Test Bed			+ 3,000
	Mission Execution Technology Implementation			+ 6,000
	Process Technologies for Replacement Part Production			+ 4,000
	Quick-Materiel Express Delivery System			+ 2,500
	Rapid Tactical Integration and Fielding of Systems Initiative			+ 3,000
	Reconfigurable Tooling Systems			+ 2,000
	Universal Control—Full Authority Digital Engine Control			+ 2,000
	Unmanned Aerial Vehicle Resupply			+ 5,000
	Vertical Takeoff and Landing Unmanned Aerial Vehicle			+ 3,000
	VTDP Compound Helicopter Technology Flight Demonstration			+ 5,000
33	WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	74,717	77,717	+ 3,000
	Manufacturing of Precision Molded Aspheric Optics			+ 1,000
	National Nanotechnology Manufacturing Center			+ 2,000
34	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY	109,952	181,052	+ 71,100
	Program Reduction			- 10,000
	Advanced Drivetrains for Enhanced Mobility and Safety			+ 1,500

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Advanced Lightweight Composite Armor			+ 1,000
	Advanced Thermal Management Controls			+ 2,000
	Alternative Fuels Validation Program/Military Ground Vehicles ...			+ 2,000
	Amphibious Personal Mobility Vehicle			+ 4,500
	Antiballistic Windshield Armor			+ 3,000
	Center for Military Vehicle Technologies			+ 7,100
	Composite Armored Cab Program			+ 4,000
	Compressible Magneto-Rheological Fluids			+ 1,000
	Digital Humans and Virtual Reality for Future Combat System ..			+ 3,000
	Fuel Cell Ground Support Equipment			+ 6,000
	Heat Dissipation for Electronic Systems and Enclosures			+ 3,000
	Lightweight Road Wheels			+ 1,000
	Lightweight Structural Composite Armor for Blast and Ballistic Protection			+ 4,000
	Logistical Fuel Processors			+ 1,500
	Low Quantity Precision Fabrication			+ 3,000
	Next Generation Non-Tactical Vehicle Propulsion			+ 3,000
	Pacific Rim Environmental Degradation of Materials			+ 3,000
	Purpose Built Armored Tractor Test and Evaluation			+ 3,000
	Segmented Band Track			+ 1,500
	Solid Oxide Fuel Cell Materials and Manufacturing			+ 2,000
	Tactical Rocket Propelled Grenade Airbag Protection System			+ 3,000
	Tactical Vehicle Design Tools			+ 2,000
	Tactical Vehicle Fleet Management			+ 2,000
	Unmanned Ground Vehicle Initiative			+ 10,000
	Unmanned Ground Vehicle/Unmanned Air Vehicle Collaborative Operations			+ 1,000
	Vehicle Armor Protection Application Development			+ 1,000
	Vehicle Information Manager Display for Drivers			+ 2,000
36	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	6,794	11,794	+ 5,000
	Adaptive Command and Control Team Training			+ 2,000
	Modeling and Simulation Technologies for Homeland Defense/ Security Training			+ 3,000
37	ELECTRONIC WARFARE ADVANCED TECHNOLOGY	44,022	51,022	+ 7,000
	JEM Radio Communications Range Extension			+ 2,000
	Portable and Mobile Emergency Broadband Systems			+ 5,000
39	NEXT GENERATION TRAINING & SIMULATION SYSTEMS	18,296	22,296	+ 4,000
	Joint Fires and Effects Training System			+ 4,000
42	EXPLOSIVES DEMILITARIZATION TECHNOLOGY	10,376	26,276	+ 15,900
	Combined Bomb Unit Decasing			+ 3,000
	Contained Static Rocket Motor			+ 1,500
	Demilitarization of Hazardous Munitions			+ 5,000
	HMX Requalification Program			+ 2,000
	Missile Recycling Capability—Ammonium Perchlorate Recycling and Reuse			+ 2,000
	Missile Recycling Capability—Letterkenny Munitions Center			+ 1,400
	Small Rocket Motor Disposal			+ 1,000
47	MISSILE AND ROCKET ADVANCED TECHNOLOGY	42,127	55,294	+ 13,167
	Army Hypersonics Advanced Technology			- 8,833
	Loitering Attack Missile Development			- 5,000
	Applied Counterspace Technology Testbed			+ 17,000
	Missile Simulation Technology Rapid Assessment and Deployment of Systems Initiative			+ 7,000
	Warfighter Protection and Homeland Security Lab			+ 3,000
49	LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY	25,554	30,554	+ 5,000
	Advanced Demining Technology			+ 5,000
51	NIGHT VISION ADVANCED TECHNOLOGY	44,307	64,307	+ 20,000
	Collimated Infrared Weapon Sniper Sight/Spotter Scope			+ 2,500
	Cost Effective Targeting System			+ 3,000
	Electron Bombarded Active Pixel Sensor Camera			+ 2,000
	Enhanced Digital Electronic Night Vision for Unmanned Ground Vehicles			+ 6,000
	Passive Millimeter Wave Imaging (PMMW)			+ 2,500

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Real-Time Geospatial Video Sensor Intelligence			+ 4,000
53	MILITARY ENGINEERING ADVANCED TECHNOLOGY	7,848	26,348	+ 18,500
	Advanced Structures and Composites in Construction			+ 2,000
	Advanced Tactical Fuels			+ 5,000
	Defense Applications for Thermo-Electric Energy Devices			+ 1,000
	Concrete Sealing System			+ 1,500
	Fuel Cell Mobile Electric Power System			+ 2,000
	Fuel Cell Power for Continuity of Operations			+ 6,000
	Real-Time Drinking Water Security Program			+ 1,000
54	ADVANCED TACTICAL COMPUTER SCIENCE AND SENSOR TECHNOLOGY	64,604	60,736	- 3,868
	Foliage Penetrating Radar for Unmanned Aerial Vehicles			- 25,268
	Aviation Responsive Maintenance System			+ 1,000
	Bi-Directional English-Iraqi Instant Language Translation System			+ 2,400
	Handheld Phraselator Translator Technology			+ 2,000
	Hyperspectral Imaging and Synthetic Aperture Radar			+ 7,000
	Lightweight Counter-Mortar Radar Base Protection Systems			+ 1,500
	Radar Tag Emitter			+ 1,500
	Sensor Visualization and Data Fusion			+ 3,000
	SharedVision			+ 3,000
56	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (NON-SPACE)	11,233	75,233	+ 64,000
	Advanced Cavitation Power Technology			+ 4,100
	Advanced Electronics Integration Center			+ 5,000
	Advanced Fuel Cell Research			+ 4,000
	Advanced Hypersonic Weapon BMC2 HWIL Technology Demonstration			+ 6,000
	Carbon Foam Program—Missile Defense			+ 5,000
	Extended Range Attack Missile			+ 2,000
	Future Tactical Operations Center Hardware/Software Integration			+ 3,000
	Global Infrasound Monitoring			+ 4,800
	Integrated Air and Missile Defense BMC4I Hardware in the Loop Test Bed			+ 3,000
	Low Cost Avionics			+ 2,000
	Low Cost Uncooled Infrared Camera for Missile Defense and UAVs			+ 2,000
	Low-Earth Orbit Nanosatellite Integrated Defense Autonomous Systems			+ 5,000
	Missile and Space Modeling and Simulation Technology			+ 4,000
	P3 Micro-Power Devices			+ 2,000
	Reagan Test Site Distributed Operations Control Center			+ 3,000
	Standoff Hazardous Agent Detection and Evaluation System			+ 4,000
	Transfer Missile Power System			+ 5,100
57	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE)	11,771	33,771	+ 22,000
	Advanced Hypersonic Weapon Kill Vehicle Integration			+ 5,000
	Allen Army Airfield			+ 8,000
	Divert Barriers at Allen Army Airfield			+ 3,000
	Low Cost Interceptor			+ 6,000
58	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	143,417	121,417	- 22,000
	Joint SIAP System Engineering—Program Growth with no Acquisition Strategy			- 25,000
	Area Security and Defense Systems Research			+ 1,000
	Command Responder			+ 2,000
60	SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV	10,714	5,714	- 5,000
	Program Execution/Milestone B Delay			- 5,000
61	TANK AND MEDIUM CALIBER AMMUNITION		2,000	+ 2,000
	High Explosive Air Burst Munition			+ 2,000
66	ENVIRONMENTAL QUALITY TECHNOLOGY DEM/VAL	5,166	11,866	+ 6,700
	Battlefield Plastic Biodiesel			+ 3,700
	HI Undersea Chemical Weapons Assessment Program			+ 3,000
67	WARFIGHTER INFORMATION NETWORK—TACTICAL	158,157	128,157	- 30,000
	Program Rebaselining			- 30,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
69	AVIATION—ADV DEV	6,542	10,442	+ 3,900
	Aviation Ground Power Unit II			+ 3,900
71	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	13,216	10,216	- 3,000
	Marine Oriented Logistics			- 3,000
73	MEDICAL SYSTEMS—ADV DEV	11,973	21,973	+ 10,000
	Combat Support Hospital—Mobile Support Hospital			+ 5,000
	Future Medical Shelter System			+ 5,000
78	AIRCRAFT AVIONICS	61,946	51,946	- 10,000
	Program Reduction			- 10,000
85	INFANTRY SUPPORT WEAPONS	31,748	48,748	+ 17,000
	CROWS Lightning Integrated Acoustic Sensor			+ 5,000
	Polymer Cased Small Arms Ammunition Production Program			+ 3,000
	Self-Sintered Silicon Carbide Body Armor			+ 1,000
	XM307 25mm Advanced Crew Served Weapon System			+ 5,000
86	MEDIUM TACTICAL VEHICLES	1,925	13,925	+ 12,000
	Family of Medium Tactical Vehicles—A2			+ 7,000
	Tactical Vehicle Technology Demonstrator Trucks			+ 5,000
89	FAMILY OF HEAVY TACTICAL VEHICLES	3,960	17,360	+ 13,400
	Heavy Expanded Mobile Tactical Truck—A3			+ 11,500
	Off Road Navigation Software For Augmenting Soldiers Decision Making			+ 1,900
92	ARMORED SYSTEMS MODERNIZATION (ASM)—ENG DEV	3,310,477	3,064,677	- 245,800
	Program Reduction			- 254,000
	Micro Air Vehicle			+ 8,200
93	NON LINE OF SIGHT LAUNCH SYSTEMS	322,880	325,880	+ 3,000
	EnforclT Anti-Tamper Software			+ 3,000
97	NON-SYSTEM TRAINING DEVICES—ENG DEV	121,553	127,553	+ 6,000
	Jamming Effects Training Module			+ 6,000
107	COMBINED ARMS TACTICAL TRAINER (CATT) CORE	39,901	38,801	- 1,100
	Synthetic Environment Core Execution			- 3,000
	Longbow Block III—Aviation Combined Arms Tactical Trainer			+ 1,900
110	WEAPONS AND MUNITIONS—SDD	130,581	80,739	- 49,842
	Advanced Precision Kill Weapon System			- 44,742
	Course Correcting Fuze Contract Award Delay			- 5,100
111	LOGISTICS AND ENGINEER EQUIPMENT—SDD	40,301	41,801	+ 1,500
	2kw Military Tactical Generator Improvements			+ 1,500
113	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT—SDD	14,509	19,009	+ 4,500
	Chitosan Bandage Component			+ 4,500
114	LANDMINE WARFARE/BARRIER—SDD	118,078	90,078	- 28,000
	Intelligent Munition System Contract Award Delay			- 28,000
117	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE	69,172	61,172	- 8,000
	Mounted Battle Command on the Move (MBCOTM)			- 6,500
	Program Reductions—Redundancies with DJC2			- 4,500
	C34 Cross Domain Strategic and Operational Solution			+ 3,000
120	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBs)	61,194		- 61,194
	Program Delay and Execution			- 61,194
121	FIREFINDER	70,151	55,151	- 15,000
	Enhanced AN/TPQ-36 SDD Contract Award Delay			- 15,000
122	SOLDIER SYSTEMS—WARRIOR DEM/VAL	27,498	30,498	+ 3,000
	Mounted Warrior Command and Control Heads Up Display			+ 3,000
127	INFORMATION TECHNOLOGY DEVELOPMENT	70,185	63,685	- 6,500
	Future Business Systems			- 7,500
	Electronic Commodity Project			+ 1,000
128	THREAT SIMULATOR DEVELOPMENT	21,180	23,180	+ 2,000
	Integrated RF/SAM Threat Environment			+ 2,000
129	TARGET SYSTEMS DEVELOPMENT	10,928	12,928	+ 2,000
	Next Generation Ice Protection Technologies for UAV's			+ 2,000
131	RAND ARROYO CENTER	20,171	22,171	+ 2,000
	Analytical and Technical Support			+ 2,000
133	CONCEPTS EXPERIMENTATION PROGRAM	21,626	24,626	+ 3,000
	Online Arabic Language Learning Community-Pilot			+ 3,000
136	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	74,066	83,066	+ 9,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Chemical Biological Defense Material Test and Evaluation Initiative			+ 3,000
	Dugway Testing and Infrastructure Upgrade			+ 2,000
	White Sands Missile Range Study			+ 4,000
137	SURVIVABILITY/LETHALITY ANALYSIS	40,780	45,780	+ 5,000
	Rotorcraft Survivability Assessment Facility			+ 5,000
148	TECHNICAL INFORMATION ACTIVITIES	34,834	38,334	+ 3,500
	Knowledge System and Relational Database			+ 3,500
149	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	18,726	33,626	+ 14,900
	Advanced Cluster Energetics			+ 4,000
	Gun Propellant Demilitarization			+ 2,400
	Medium Caliber Metal Parts Upgrade			+ 3,100
	MEMS Technology Applications—Nano Consortium			+ 4,000
	Munitions Standardization, Effectiveness and Safety			+ 1,400
154	WEAPONS CAPABILITY MODIFICATIONS UAV	16,532	3,500	- 13,032
	Army Requested Transfer to RDTE, Army—Line 164			- 7,700
	Program Reduction			- 8,832
	Guided Dispenser System for Tactical Unmanned Aerial Vehicles			+ 3,500
158	MANEUVER CONTROL SYSTEM	37,976	34,976	- 3,000
	JTCW Development			- 3,000
159	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS	301,739	307,139	+ 5,400
	Aerial Common Sensor			- 9,600
	CH-47 IVHMS—HUMS Demonstration			+ 15,000
164	OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	19,706	17,606	- 2,100
	ATACMS PIP SDD Contract Award Delay			- 9,800
	Army Requested Transfer from RDTE, Army—Line 154			+ 7,700
173	SECURITY AND INTELLIGENCE ACTIVITIES	3,170	7,170	+ 4,000
	Portable Iris Enrollment and Recognition Device			+ 3,000
	Type-I TACTI—NET System Development			+ 1,000
174	INFORMATION SYSTEMS SECURITY PROGRAM	23,828	25,828	+ 2,000
	Retinal/Iris Multimodal Biometrics Technology			+ 2,000
175	GLOBAL COMBAT SUPPORT SYSTEM	55,272	39,272	- 16,000
	Product Life Cycle Management Plus (PLM+) Delay			- 21,000
	Army Legacy Logistics Systems Modernization (SAMS-E)			+ 5,000
176	SATCOM GROUND ENVIRONMENT (SPACE)	41,336	33,336	- 8,000
	MIST Program			- 8,000
179	TACTICAL UNMANNED AERIAL VEHICLES (JMIP)	114,087	158,087	+ 44,000
	Heavy Fuel Engine for Shadow Tactical UAV			+ 5,000
	Tactical Signals Intelligence Payload			+ 4,000
	Army Requested Transfer from Other Procurement, Army Lines 62 and 120			+ 35,000
180	AIRBORNE RECONNAISSANCE SYSTEMS (JMIP)	12	1,012	+ 1,000
	Sentinel UAV, Phase II			+ 1,000
181	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS (JMIP)	120,562	125,562	+ 5,000
	Effects Based Approach to Operations			+ 1,000
	National Defense Imagery Processing Program			+ 4,000
183	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	68,075	102,575	+ 34,500
	Advanced Modeling Technology for Titanium Machining			+ 2,900
	Electrodeposited Coatings Systems for Munitions			+ 2,000
	High Performance Alloy Materials/Advanced Manufacturing of Steel Castings			+ 2,000
	Laser Peening for Army Helicopters			+ 4,000
	Legacy Aerospace Gear Drive Re-Engineering Initiative			+ 1,500
	Low Cost Domestic Titanium Reduction to Powder Initiative			+ 5,000
	Manufacturing Systems Demonstration			+ 3,000
	Next Generation Combat Helmet			+ 2,000
	Packaging and Interconnection Technologies			+ 3,000
	Rigid-Rod Polyphenylene Compositions for Light Weight Cartridge Cases			+ 3,100
	Solid Free Form Fabrication of Components from Low-Cost Titanium			+ 2,500
	SuperPulse Laser System Development			+ 3,500

Army Hypersonics Advanced Technology.—The budget request includes \$8,833,000 to initiate Army Hypersonics Advanced Technology Development [ATD]. Subsequent to the budget submission, the Committee was informed that any potential start of this initiative will be delayed a year due to a restructuring of the Army Hypersonics applied research efforts. Therefore, the Committee recommendation does not include the ATD funding request.

Joint Common Missile [JCM].—The Department of Defense Appropriations Act, 2006 (Public Law 109–148) provided \$26,000,000 in the “Research, Development, Test and Evaluation, Army” account for continued development of JCM, which the Defense Department proposed for termination in December 2004. The Committee continues to support the program and noted in last year’s Committee report (Senate Report 109–141) that “JCM is the only air-to-ground missile in development with the potential to fulfill critical capability gaps identified during the Joint Capabilities Integration and Development System [JCIDS] process”. While the fiscal year 2006 funds remain unobligated, the Committee is aware the Joint Requirements Oversight Council has met to discuss the future development of JCM. The Committee expects the Department to finance potential fiscal year 2007 development requirements for JCM with those funds previously made available and if necessary, the budget executing flexibilities provided to the Department.

Future Combat System.—The Committee recommendation includes \$3,502,794,000 for the Army’s Future Combat System [FCS], which includes \$3,064,677,000 for Armored Systems Modernization, \$325,800,000 for Non-Line-of-Sight Launch System and \$112,237,000 for Non-Line-of-Sight Cannon. The recommended level is \$379,598,000, or 12 percent, above the fiscal year 2006 estimate. The Committee continues to support efforts to modernize the Army’s future force while at the same time allowing early spin out of technologies to the current force. The Committee, however, is becoming concerned about the long-term affordability of FCS. In response to a congressional mandate, the Defense Department submitted an independent cost estimate for FCS to the Committee on June 22, 2006. The estimate prepared by the Cost Analysis Improvement Group [CAIG] projects FCS life cycle costs of approximately \$300,000,000,000 in fiscal year 2003 constant dollars. The estimate is 75 percent higher than an estimate prepared by the CAIG just 3 years ago. Increasing software complexity, unstable requirements and technological delays in complimentary programs essential to the FCS concept add significant upside cost and schedule risk to the program. The Committee commends the Army’s efforts to date in managing this risk. The Committee also appreciates the Army’s difficult task of balancing resources to meet today’s many competing demands. Nonetheless, the Committee strongly encourages the Army to manage FCS requirements to achieve overall program affordability.

Armored System Modernization.—Consistent with prior fiscal years, the Committee directs that each project within the Armored System Modernization program element be designated as a congressional special interest item subject to prior approval reprogramming procedures.

Advanced Precision Kill Weapon System [APKWS].—The APKWS is a precision weapon designed to complement the Hellfire missile. In January 2005, the Army curtailed the APKWS program citing an underperforming development team, technical challenges related to integration of the program's semi-active laser technology and a product that would not have met the defined user requirement. After curtailment, the Army restructured the program under the same set of Key Performance Parameters and awarded APKWS II to the original program participants. Given the laser seeker and guidance technology are the same as those used in the initial program, the Committee does not understand how the follow-on APKWS program will overcome the difficulties identified by the Army in January 2005. Further, the Committee is aware of an internal Army analysis that determined APKWS will provide limited utility to the force. At a time when the Army is facing increasing fiscal pressures both short term and long term, the Committee is hesitant to allocate funding to a complimentary system that provides limited utility to the force and may not meet the defined user requirement. The Committee, therefore, recommends denying the fiscal year 2007 budget request for APKWS.

Landmine Alternatives.—The Committee supports non-self-destruct landmine alternatives. However, the Committee notes that the intent in initiating these programs was to develop technologies to replace the types of anti-personnel landmine that cannot distinguish between an innocent civilian and enemy combatant. For this reason, the Committee believes it is essential that these systems be designed to utilize a man-in-the-loop, discriminating capability.

Intelligent Munitions System [IMS].—The IMS is an unattended munitions system being pursued to meet National Landmine Policy and is intended to be fielded as part of the first FCS technology spin-out to the current force in fiscal year 2008. The Committee notes the program incurred an 8-month delay in award of a system development and demonstration contract during the current fiscal year. As a result, the program is severely behind in meeting its fiscal year 2006 obligation and expenditure benchmarks. Due to the delay in development and slow expenditure rate, the Committee recommends \$53,960,000 for IMS, which is \$13,302,000 more than the fiscal year 2006 estimate and \$28,000,000 less than the request for fiscal year 2007.

In addition to the delay in IMS development, the Committee is concerned about the program's ability to meet FCS program milestones given its operational dependence on the Joint Tactical Radio System program, which is experiencing significant schedule delays due to technological challenges and a program restructuring. The Committee fully expects the Army to keep the congressional defense committees informed about the program's ability to meet FCS spin-out one milestones as well as any changes to IMS cost and development schedule.

General Fund Enterprise Business System [GFEB].—The fiscal year 2007 budget submission includes \$61,194,000 for continued development of the GFEB program. The Committee is aware the program is significantly behind previously established milestones and is concerned the program's slow expenditure rate may be an indicator of other difficulties in the program. Of the \$128,469,000

made available for program development over the past 2 fiscal years, over \$106,483,000, or 83 percent, remained unexpended as of May 31, 2006. The Committee believes sufficient prior year funds are available to meet fiscal year 2007 development requirements and recommends denying the budget request.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Appropriations, 2006	\$18,804,069,000
Budget estimate, 2007	16,912,223,000
House allowance	17,654,518,000
Committee recommendation	17,048,238,000

The Committee recommends an appropriation of \$17,048,238,000. This is \$136,015,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
	RESEARCH, DEVELOPMENT, TEST & EVAL., NAVY					
	BASIC RESEARCH:					
1	UNIVERSITY RESEARCH INITIATIVES	73,322	96,822	81,822	+ 8,500	- 15,000
2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	15,916	15,916	15,916	.....	.....
3	DEFENSE RESEARCH SCIENCES	366,649	386,149	380,649	+ 14,000	- 5,500
	TOTAL BASIC RESEARCH	455,887	498,887	478,387	+ 22,500	- 20,500
	APPLIED RESEARCH:					
4	POWER PROTECTION APPLIED RESEARCH	84,914	116,714	97,914	+ 13,000	- 18,800
5	FORCE PROTECTION APPLIED RESEARCH	123,443	123,243	172,943	+ 49,500	+ 49,700
6	MARINE CORPS LANDING FORCE TECHNOLOGY	37,741	38,741	45,741	+ 8,000	+ 7,000
8	MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY .....	.....	1,000	.....	.....	- 1,000
9	COMMON PICTURE APPLIED RESEARCH	68,352	74,241	87,852	+ 19,500	+ 13,611
10	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	89,964	115,664	104,264	+ 14,300	- 11,400
11	RF SYSTEMS APPLIED RESEARCH	42,619	47,619	46,919	+ 4,300	- 700
12	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	48,718	55,718	48,718	.....	- 7,000
13	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	6,036	6,036	6,036	.....	.....
14	UNDERSEA WARFARE APPLIED RESEARCH	83,435	85,235	89,435	+ 6,000	+ 4,200
15	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	53,435	63,135	57,435	+ 4,000	- 5,700
	TOTAL APPLIED RESEARCH	638,657	727,346	757,757	+ 119,100	+ 30,411
	ADVANCED TECHNOLOGY DEVELOPMENT:					
16	POWER PROTECTION ADVANCED TECHNOLOGY	76,806	89,306	115,306	+ 38,500	+ 26,000
17	FORCE PROTECTION ADVANCED TECHNOLOGY	61,504	162,104	108,004	+ 46,500	- 54,100
18	COMMON PICTURE ADVANCED TECHNOLOGY	61,725	63,725	64,725	+ 3,000	+ 1,000
19	WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY	82,035	89,735	92,035	+ 10,000	+ 2,300
20	RF SYSTEMS ADVANCED TECHNOLOGY	45,317	77,417	73,817	+ 28,500	- 3,600
21	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)	59,170	78,670	86,670	+ 27,500	+ 8,000
22	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	1,405	1,405	405	- 1,000	- 1,000
24	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	17,982	58,482	17,982	.....	- 40,500
25	UNDERSEA WARFARE ADVANCED TECHNOLOGY	35,055	35,055	38,055	+ 3,000	+ 3,000
27	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	41,308	41,308	41,308	.....	.....
28	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY	21,326	24,926	24,126	+ 2,800	- 800

	1,001	1,001	1,001	1,001	1,001	1,001	1,001
29	JOINT COMMAND AND CONTROL PROGRAM (JC2)						
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT						
	504,634	723,134	663,434	+ 158,800	.....	-59,700	.....
	DEMONSTRATION & VALIDATION:						
30	31,778	28,278	31,778	.....	.....	+ 3,500	.....
31	6,177	31,377	21,677	+ 15,500	.....	- 9,700	.....
32	16,383	16,383	16,383	.....	.....	.....	.....
33	16,782	22,782	23,482	+ 6,700	.....	+ 700	.....
34	3,959	3,959	3,959	.....	.....	.....	.....
35	12,398	12,398	12,398	.....	.....	.....	.....
36	130,265	134,765	114,365	- 15,900	.....	- 20,400	.....
37	40,627	55,027	48,627	+ 8,000	.....	- 6,400	.....
38	153,894	158,394	153,894	.....	.....	- 4,500	.....
39	14,135	34,235	39,935	+ 25,800	.....	+ 5,700	.....
40	134,550	134,550	134,550	.....	.....	.....	.....
41	87,180	87,180	87,180	.....	.....	.....	.....
42	38,462	38,462	38,462	.....	.....	.....	.....
43	1,901	1,901	1,901	.....	.....	.....	.....
44	38,696	42,696	35,696	- 3,000	.....	- 7,000	.....
45	25,953	25,953	25,953	.....	.....	.....	.....
46	140,432	155,432	158,932	+ 18,500	.....	+ 3,500	.....
47	10,357	10,357	10,357	.....	.....	.....	.....
48	21,549	14,721	26,649	+ 5,100	.....	+ 11,928	.....
49	21,314	24,314	28,314	+ 7,000	.....	+ 4,000	.....
50	174,648	174,648	174,648	.....	.....	.....	.....
51	.....	5,800	.....	.....	.....	- 5,800	.....
52	139,017	139,017	139,017	.....	.....	.....	.....
53	319,671	332,271	321,471	+ 1,800	.....	- 10,800	.....
54	62,095	74,745	63,095	+ 1,000	.....	- 11,650	.....
55	22,385	23,885	22,385	.....	.....	- 1,500	.....
56	188,306	194,906	191,306	+ 3,000	.....	- 3,600	.....
57	3,777	3,777	3,777	.....	.....	.....	.....
58	503	2,003	19,503	+ 19,000	.....	+ 17,500	.....
59	24,467	24,467	24,467	.....	.....	.....	.....
60	53,406	67,406	48,106	- 5,300	.....	- 19,300	.....
61	16,324	18,324	16,324	.....	.....	- 2,000	.....
62	20,271	26,771	24,271	+ 4,000	.....	- 2,500	.....
63	1,600	1,600	1,600	.....	.....	.....	.....
64	4,194	6,194	6,194	.....	.....	.....	.....
65	28,578	28,578	28,578	+ 2,000	.....	.....	.....

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
66	NAVY LOGISTIC PRODUCTIVITY	6,306	26,206	11,306	+5,000	-14,900
67	RETRACT MAPLE	344,912	344,912	344,912	.....	.....
68	LINK PLUMERIA	80,662	70,662	80,662	.....	+10,000
69	RETRACT ELM	64,133	64,133	64,133	.....	.....
70	SHIP SELF DEFENSE	8,897	8,897	8,897	.....	.....
71	LINK EVERGREEN	55,051	55,051	55,051	.....	.....
72	SPECIAL PROCESSES	47,180	47,180	47,180	.....	.....
73	NATO RESEARCH AND DEVELOPMENT	9,784	9,784	9,784	.....	.....
74	LAND ATTACK TECHNOLOGY	18,571	48,171	36,571	+18,000	-11,600
75	NONLETHAL WEAPONS	44,815	48,515	46,815	+2,000	-1,700
77	JOINT PRECISION APPROACH AND LANDING SYSTEMS	41,242	41,242	33,242	-8,000	-8,000
78	SINGLE INTEGRATED AIR PICTURE (SIAP) SYSTEM ENGINEER	50,282	42,500	37,282	-13,000	-5,218
79	COUNTER-DRUG RDT&E PROJECTS .....	.....	4,000	.....	.....	-4,000
80	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	20,527	20,527	17,527	-3,000	-3,000
81	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS)	77,000	30,000	.....	-77,000	-30,000
82	SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE	43,909	43,909	43,909	.....	.....
83A	DIRECTED ENERGY RESEARCH .....	.....	.....	30,000	+30,000	+30,000
	TOTAL, DEMONSTRATION & VALIDATION	2,919,305	3,063,245	2,966,505	+47,200	-96,740
	ENGINEERING & MANUFACTURING DEVELOPMENT:					
84	OTHER HELO DEVELOPMENT	86,197	86,197	86,197	.....	.....
85	AV-8B AIRCRAFT—ENG DEV	13,878	13,878	13,878	.....	.....
86	STANDARDS DEVELOPMENT	112,257	92,257	70,987	-41,270	-21,270
87	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	19,259	19,259	19,259	.....	.....
88	AIR/OCEAN EQUIPMENT ENGINEERING	5,578	5,578	5,578	.....	.....
89	P-3 MODERNIZATION PROGRAM	16,139	16,139	6,139	-10,000	-10,000
90	WARFARE SUPPORT SYSTEM	2,203	2,203	2,203	.....	.....
91	TACTICAL COMMAND SYSTEM	74,225	60,625	57,625	-16,600	-3,000
92	ADVANCED HAWKEYE	497,842	497,842	497,842	.....	.....
93	H-1 UPGRADES	7,844	7,844	7,844	.....	.....
94	ACOUSTIC SEARCH SENSORS	36,764	47,064	38,764	+2,000	-8,300
95	V-22A	268,461	268,461	268,461	.....	.....
96	AIR CREW SYSTEMS DEVELOPMENT	12,434	14,234	12,434	.....	-1,800
97	EA-18	372,363	375,363	372,363	.....	-3,000

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
	RD&E MANAGEMENT SUPPORT:					
141	THREAT SIMULATOR DEVELOPMENT	23,668	23,668	23,668	.....	.....
142	TARGET SYSTEMS DEVELOPMENT	45,666	45,666	50,666	+ 5,000	+ 5,000
143	MAJOR T&E INVESTMENT	39,750	47,250	48,750	+ 9,000	+ 1,500
144	STUDIES AND ANALYSIS SUPPORT—NAVY	7,093	7,093	7,093	.....	.....
145	CENTER FOR NAVAL ANALYSES	48,900	48,900	48,900	.....	.....
146	FLEET TACTICAL DEVELOPMENT	2,595	2,595	2,595	.....	.....
148	TECHNICAL INFORMATION SERVICES	670	9,170	21,670	+ 21,000	+ 12,500
149	MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT	47,213	47,213	45,413	- 1,800	- 1,800
150	STRATEGIC TECHNICAL SUPPORT	3,347	3,347	3,347	.....	.....
151	RD&E SCIENCE AND TECHNOLOGY MANAGEMENT	67,328	67,328	66,328	- 1,000	- 1,000
152	RD&E INSTRUMENTATION MODERNIZATION	1,243	1,243	1,243	.....	.....
153	RD&E SHIP AND AIRCRAFT SUPPORT	83,140	83,140	83,140	.....	.....
154	TEST AND EVALUATION SUPPORT	328,276	328,276	328,276	.....	.....
155	OPERATIONAL TEST AND EVALUATION CAPABILITY	11,532	11,532	11,532	.....	.....
156	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT	2,904	2,904	2,904	.....	.....
157	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	20,073	20,073	18,173	- 1,900	- 1,900
158	MARINE CORPS PROGRAM WIDE SUPPORT	25,343	31,343	31,343	+ 6,000	.....
159	TACTICAL CRYPTOLOGIC ACTIVITIES	1,004	1,004	1,004	.....	.....
160	SERVICE SUPPORT TO JFCOM, JINTC	5,202	12,802	5,202	.....	- 7,600
	TOTAL, RD&E MANAGEMENT SUPPORT	764,947	794,547	801,247	+ 36,300	+ 6,700
	OPERATIONAL SYSTEMS DEVELOPMENTS:					
163	HARPOON MODIFICATIONS	36,284	28,000	.....	- 36,284	- 28,000
164	UNMANNED COMBAT AIR VEHICLE (UCAV) ADVANCED COMPONENT	239,163	189,163	.....	- 239,163	- 189,163
165	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	124,522	129,522	124,522	.....	- 5,000
166	SSBN SECURITY TECHNOLOGY PROGRAM	42,869	42,869	42,869	.....	.....
167	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	2,131	2,131	2,131	.....	.....
168	NAVY STRATEGIC COMMUNICATIONS	37,464	37,464	37,464	.....	.....
169	RAPID TECHNOLOGY TRANSITION (RTT)	39,285	44,285	35,485	- 3,800	- 8,800
170	F/A-18 SQUADRONS	31,098	38,698	41,598	+ 10,500	+ 2,900
171	E-2 SQUADRONS	1,540	6,240	7,540	+ 6,000	+ 1,300
172	FLEET TELECOMMUNICATIONS (TACTICAL)	27,189	27,189	27,189	.....	.....
173	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)	18,635	25,635	18,635	.....	- 7,000

174	INTEGRATED SURVEILLANCE SYSTEM	30,740	42,540	28,240	-2,500	-14,300
175	AMPHIBIOUS TACTICAL SUPPORT UNITS	1,812	1,812	1,812		
176	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	17,857	19,857	17,857		-2,000
177	CRYPTOLOGIC DIRECT SUPPORT	1,425	1,425	1,425		
178	ELECTRONIC WARFARE (EW) READINESS SUPPORT	20,673	20,673	20,673		
179	HARM IMPROVEMENT	99,208	105,208	94,208	-5,000	-11,000
180	TACTICAL DATA LINKS	41,967	41,967	41,967		
181	SURFACE ASW COMBAT SYSTEM INTEGRATION	9,417	21,667	9,417		-12,250
182	MK-48 ADCAP	24,988	24,988	24,988		+8,800
183	AVIATION IMPROVEMENTS	71,612	80,412	89,212	+17,600	
184	NAVY SCIENCE ASSISTANCE PROGRAM	3,376	3,376	3,376		
185	OPERATIONAL NUCLEAR POWER SYSTEMS	69,350	69,350	69,350		
186	MARINE CORPS COMMUNICATIONS SYSTEMS	218,460	241,160	219,460	+1,000	-21,700
187	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	47,592	68,892	57,592	+10,000	-11,300
188	MARINE CORPS COMBAT SERVICES SUPPORT	17,524	17,524	17,524		
189	TACTICAL AIM MISSILES	7,946	7,946	7,946		
190	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	6,705	6,705	6,705		
191	JOINT HIGH SPEED VESSEL (JHSV)	14,163	14,163	14,163		
195	SATELLITE COMMUNICATIONS (SPACE)	748,662	751,662	750,662	+2,000	-1,000
196	INFORMATION SYSTEMS SECURITY PROGRAM	23,037	27,037	26,837	+3,800	-200
197	JOINT COMMAND AND CONTROL PROGRAM (JC2)	5,073	5,073	5,073		
198	COBRA LUDY	135,372	135,372	135,372		
199	NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METOC)	7,307	9,307	7,307		-2,000
201	JOINT MILITARY INTELLIGENCE PROGRAMS	6,793	6,793	6,793		
202	TACTICAL UNMANNED AERIAL VEHICLES	115,950	118,950	115,950		-3,000
203	ENDURANCE UNMANNED AERIAL VEHICLES	26,357	26,357	26,357		
204	AIRBORNE RECONNAISSANCE SYSTEMS	35,038	36,838	39,038	+4,000	+2,200
205	MANNED RECONNAISSANCE SYSTEMS	22,815	35,815	32,815	+10,000	-3,000
206	DISTRIBUTED COMMON GROUND SYSTEMS	16,587	18,587	16,587		-2,000
207	AERIAL COMMON SENSOR (ACS)	17,182	17,182	17,182		-17,182
208	MODELING AND SIMULATION SUPPORT	7,503	7,503	7,503		
209	DEPOT MAINTENANCE (NON-IF)	2,960	6,960	2,960		-4,000
210	AVIONICS COMPONENT IMPROVEMENT PROGRAM	1,375	1,375	1,375		
211	INDUSTRIAL PREPAREDNESS	55,048	63,848	57,048	+2,000	-6,800
212	MARITIME TECHNOLOGY (MARTECH)		22,000	16,100	+16,100	-5,900
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	2,532,054	2,651,520	2,311,125	-220,929	-340,395
999	CLASSIFIED PROGRAMS	1,181,325	1,168,325	1,117,625	-63,700	-50,700

[In thousands of dollars]

Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
				Budget estimate	House allowance
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY	16,912,223	17,654,518	17,048,238	+ 136,015	- 606,280

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

(In thousands of dollars)

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
1	University Research Initiatives	73,322	81,822	+ 8,500
	Multifunctional Materials for Naval Structures			+ 1,500
	Smart, Remote Sensing Systems Using Nanotechnology			+ 2,000
	Center for SouthEastern Tropical Advanced Remote Sensing			+ 4,000
	Blast and Impact Resistant Composite Structures for Navy Ships			+ 1,000
3	Defense Research Sciences	366,649	380,649	+ 14,000
	Evaluation of ELF Signals in Deep and Shallow Water			+ 1,000
	Bio-Inspired Materials			+ 5,000
	Energetics Technology Center/S&T Workforce Revitalization			+ 5,500
	ONAMI Nanoelectronics and Nanometrology Initiative			+ 2,500
4	Power Projection Applied Research	84,914	97,914	+ 13,000
	Program Growth			- 4,500
	Thermal Management Systems for High Density Electronics			+ 6,000
	Combustion Light Gas Gun Projectile			+ 5,000
	Multi-Sensor Hyperspectral System for Day/Night Reconnaissance			+ 4,500
	HALOH Engine			+ 2,000
5	Force Protection Applied Research	123,443	172,943	+ 49,500
	Program Growth			- 18,400
	Nanostructured Composite Marine Coatings			+ 3,000
	Small Watercraft Propulsion Demonstrator			+ 6,000
	Magnetic Refrigeration Technology for Naval Applications			+ 3,000
	Undersea Perimeter Security Integrated Defense Environment			+ 2,000
	Shipboard Production of Synthetic Logistics and Aviation Fuel			+ 1,000
	Mark V Patrol Boat Replacement Craft Prototype			+ 5,000
	Advanced Receive-While-Transmit Sonar for UUVs			+ 4,000
	Aperstructures			+ 27,900
	Advanced Simulation Tools for Aircraft Structures			+ 3,000
	Nano-Magnetic Materials for Propulsion/Energy Systems			+ 1,000
	ADPICAS			+ 2,000
	PMRF Force Protection Lab			+ 4,000
	High Frequency Acoustic Signal Processor System			+ 6,000
6	Marine Corps Landing Force Technology	37,741	45,741	+ 8,000
	High Power Lightweight Zinc-Air Battery			+ 3,000
	Warfighter Rapid Awareness Processing Technology for Distributed Operations			+ 4,000
	Integrated Asymmetric Urban Warfare			+ 1,000
9	Common Picture Applied Research	68,352	87,852	+ 19,500
	Program Reduction			- 2,000
	M2C2			+ 7,500
	Theater Undersea Warfare Initiative			+ 7,000
	PACOM Agile Coalition Environment			+ 7,000
10	Warfighter Sustainment Applied Research	89,964	104,264	+ 14,300
	Program Growth			- 14,500
	Materials and Coatings Enhancements Through High Performance Materials			+ 10,800
	Advanced Reinforced Materials and New Materials for Aircraft Tires			+ 1,000
	National Center for Advanced Secure Systems Research			+ 4,000
	Friction Stir Welding			+ 2,000
	Amelioration of Military Hearing Loss			+ 1,000
	Advanced Fouling and Corrosion Control Coatings			+ 9,000
	Biosensors for Defense Applications			+ 1,000
11	RF Systems Applied Research	42,619	46,919	+ 4,300
	Gallium Nitride RF Power Technology			+ 1,300

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Advanced Microwave Ferrite Research: Phase IV			+ 1,000
	Pacific-theater Data Fusion Testbed			+ 2,000
14	Undersea Warfare Applied Research	83,435	89,435	+ 6,000
	Advanced Acoustic Transducer Concepts			+ 3,000
	Micro Electro Mechanical Systems—Inertial Measurement Units			+ 3,000
15	Mine and Expeditionary Warfare Applied Research	53,435	57,435	+ 4,000
	Program Growth			- 3,000
	Acoustic Littoral Glider			+ 6,000
	NMSU Water Security Program			+ 1,000
16	Power Projection Advanced Technology	76,806	115,306	+ 38,500
	Program Reduction			- 10,000
	Time Critical Strike Ramjet			+ 1,000
	Long Wavelength Array			+ 2,500
	Smart Instrument Development for Magdalena Ridge Observatory			+ 6,000
	High Energy Laser Systems Test Facility			+ 4,000
	Expeditionary Craft			+ 10,000
	Quiet High-Speed Propulsion			+ 8,000
	Advanced Lifting Body Ship Research			+ 7,000
	Articulated Stable Ocean Platform			+ 2,000
	Autonomous Unmanned Surface Vessel			+ 4,000
	Information Sharing for ISRTE of Mobile Targets			+ 4,000
17	Force Protection Advanced Technology	61,504	108,004	+ 46,500
	Agile Port and High Speed Ship Technology			+ 3,500
	Fuel Cell Fast-Start Battery for Ship Propulsion			+ 5,000
	High Temperature Superconducting (HTS) Generator			+ 5,000
	Wide-Area Sensor for Force Protection Targeting			+ 4,000
	Navy Mobile Manufacturing and Repair Cell			+ 5,000
	Large Unmanned Undersea Vehicle (LUUV) Test Bed			+ 2,000
	Advanced Technology to Reduce Vulnerability of Military Installations			+ 2,000
	High Temperature Superconductor AC Synchronous Propulsion Motor			+ 6,000
	High Speed Power Node Switching Center			+ 1,000
	Wide-Band Gap Semiconductor Materials Research			+ 8,000
	Completion of Advanced Ship Service Fuel Cell Power Plant			+ 2,000
	Remote Continuous Energetic Material Manufacturing for Pyrotechnic IR Decoys			+ 2,000
	Solid Oxide Fuel Cells [SOFC's]			+ 1,000
18	Common Picture Advanced Technology	61,725	64,725	+ 3,000
	Program Growth			- 4,000
	Improved Shipboard Combat Information Center			+ 3,000
	Rail Sensor Testbed			+ 2,000
	4D Data Fusion Visualization			+ 2,000
19	Warfighter Sustainment Advanced Technology	82,035	92,035	+ 10,000
	Program Underexecution			- 4,000
	Program Growth			- 3,000
	Autonomous Sustainment Cargo Container Delivery System			+ 2,000
	Protective Apparel Technology Systems			+ 2,000
	Advanced Composite Materials Research			+ 5,000
	Defense Systems Modernization and Sustainment Initiative			+ 4,000
	HEET			+ 4,000
20	RF Systems Advanced Technology	45,317	73,817	+ 28,500
	APY-6 Real-Time Precision Targeting Radar			+ 3,000
	Joint Electronic Attack Unmanned Vehicles			+ 1,500
	Polymide Macro Electromechanical Systems			+ 2,000
	Common Affordable Radar Processor			+ 7,000
	Open Architecture Computer Test Bed			+ 2,000
	Advanced Wideband Open Architecture Radar System			+ 13,000
21	USMC Advanced Technology Demonstration (ATD)	59,170	86,670	+ 27,500
	Expeditionary Unit Water Purification			+ 5,000
	Advanced Tactical Vehicle (ULTRA)			+ 6,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	USMC Advanced Tech Demo			+ 8,000
	Warfighter Protection: Integrated Warfighter Bio-Defense			+ 7,500
	Maritime Air-Ground Task Force Situation Awareness			+ 4,000
22	Joint Non-Lethal Weapons Technology Development	1,405	405	- 1,000
	Program Underexecution			- 1,000
25	Undersea Warfare Advanced Technology	35,055	38,055	+ 3,000
	Program Growth			- 5,000
	Demonstration Wave Power Buoy for Advanced Deployable System			+ 4,000
	Undersea Vehicle Test and Training Environment			+ 4,000
28	Mine and Expeditionary Warfare Advanced Technology	21,326	24,126	+ 2,800
	Visual Integrated Bridge System			+ 2,800
31	Aviation Survivability	6,177	21,677	+ 15,500
	Unmanned Aircraft Systems Optimization Technologies Program			+ 3,500
	Intelligence Gathering Uninhabited System			+ 2,000
	Rotocraft External Aircraft Protection System			+ 4,000
	Silver Fox Unmanned Aerial Vehicle			+ 4,000
	Air Sentinel			+ 2,000
33	ASW Systems Development	16,782	23,482	+ 6,700
	Electro-Optic Passive ASW			+ 6,700
36	Surface and Shallow Water Mine Countermeasures	130,265	114,365	- 15,900
	Program Growth			- 3,000
	Delay in MRUUV Program			- 16,900
	Surface Navy Integrated Undersea Tactical Tech—Mine Warfare			+ 4,000
37	Surface Ship Torpedo Defense	40,627	48,627	+ 8,000
	Torpedo Detection, Classification, Localization Capability			+ 1,000
	Integrated Multi-Platform Sonar System (IMPSS)			+ 7,000
39	Shipboard System Component Development	14,135	39,935	+ 25,800
	MTTC/PI and National Surface Treatment Center			+ 6,000
	Advanced Steam Turbine			+ 2,000
	Water Mist Fire Protection			+ 1,000
	Advanced Fluid Controls for Shipboard Applications			+ 2,000
	Carbon Foam, Navy			+ 3,500
	Propulsor Manufacturing Technology Development			+ 5,300
	Critical On Demand Information Support for Shipboard Maintainers			+ 1,000
	Smart Valve			+ 2,500
	Braided Ropes for US Navy Ship Salvage			+ 1,000
	High Efficiency Quiet Electric Drive			+ 1,500
44	Surface ASW	38,696	35,696	- 3,000
	Program Growth			- 10,000
	Advanced Receive-While-Transmit Sonar			+ 2,000
	Improved Surface Vessel Torpedo Launcher			+ 3,000
	All Electric Torpedo Launcher			+ 2,000
46	Advanced Submarine System Development	140,432	158,932	+ 18,500
	Low Cost Thin Line Fiber Optic Towed Array			+ 2,000
	Large Displacement UUV At-Sea Launch and Recovery			+ 10,000
	Fiber Optic Conformal Acoustic Velocity System (FO-CAVES)			+ 4,500
	Submarine Automated Simulation			+ 3,000
48	Ship Concept Advanced Design	21,549	26,649	+ 5,100
	Program Underexecution			- 5,500
	Scout Radar Stealth Upgrades for Special Warfare Craft			+ 1,000
	Autonomous Maritime Navigation Program			+ 7,000
	Advanced Capabilities Group			+ 2,600
49	Ship Preliminary Design & Feasibility Studies	21,314	28,314	+ 7,000
	Support for Naval Ship Hydrodynamic Facilities			+ 7,000
53	Littoral Combat Ship (LCS)	319,671	321,471	+ 1,800
	Advanced Lightweight Metals Tech for Aluminum Intensive Marine Structures			+ 1,800
54	Combat System Integration	62,095	63,095	+ 1,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Visualization and Service-Oriented Architecture for Strike Force Interoperability			+ 1,000
56	Marine Corps Assault Vehicles	188,306	191,306	+ 3,000
	Intelligent Machining of Advanced Defense Materials			+ 3,000
58	Marine Corps Ground Combat/Support System	503	19,503	+ 19,000
	Moldable Fabric Armor			+ 2,000
	Anti-Sniper Infrared Targeting System			+ 3,000
	Urban Operations Environment Laboratory			+ 11,000
	Marine Expeditionary Rifle Squad			+ 3,000
60	Cooperative Engagement	53,406	48,106	- 5,300
	Program Underexecution			- 5,300
62	Environmental Protection	20,271	24,271	+ 4,000
	Integrated Marine Mammal Monitoring and Protection System			+ 4,000
64	Facilities Improvement	4,194	6,194	+ 2,000
	Permanent Magnet Linear Generator Power Buoy System			+ 2,000
66	Navy Logistic Productivity	6,306	11,306	+ 5,000
	Multi-Color Infrared Sensors			+ 5,000
74	Land Attack Technology	18,571	36,571	+ 18,000
	35mm Naval Gun System (Millennium Gun)			+ 3,000
	Ballistic Trajectory Extended Range Munition			+ 15,000
75	Nonlethal Weapons	44,815	46,815	+ 2,000
	Boat Trap System for Port Security/Water Craft Interdiction			+ 2,000
77	Joint Precision Approach and Landing Systems	41,242	33,242	- 8,000
	Program Reduction			- 8,000
78	Single Integrated Air Picture (SIAP) System Engineer (SE)	50,282	37,282	- 13,000
	Reduce Growth Pending Plan			- 13,000
83A	Directed Energy Research		30,000	+ 30,000
	Directed Energy Research			+ 30,000
80	Tactical Air Directional Infrared Countermeasures (TADIRCM)	20,527	17,527	- 3,000
	Program Underexecution			- 3,000
81	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	77,000		- 77,000
	Transfer to RDT&E, DW for Study			- 5,000
	Program Reduction			- 72,000
86	Standards Development	112,257	70,987	- 41,270
	Defer New Start			- 40,770
	Sustain Calibration Standards at Fiscal Year 2006 Funded Level			- 500
89	P-3 Modernization Program	16,139	6,139	- 10,000
	Defer New Start			- 11,000
	Personal Digital Assistant Maintenance Application			+ 1,000
91	Tactical Command System	74,225	57,625	- 16,600
	Defer New Start			- 5,000
	Program Growth			- 13,600
	Navy Logistics Common Operating Picture (LOGCOP)			+ 2,000
94	Acoustic Search Sensors	36,764	38,764	+ 2,000
	AN/USQ-78B Airborne Acoustic Processor System Upgrades			+ 2,000
99	VHXX Executive Helo Development	682,597	557,597	- 125,000
	Program Underexecution			- 125,000
101	SC-21 Total Ship System Engineering	817,528	818,528	+ 1,000
	Defer New Start			- 18,000
	Bio/Nano-MEMS Center for Defense Applications			+ 2,000
	Permanent Magnet Motor System			+ 15,000
	Floating Area Network			+ 2,000
102	Surface Combatant Combat System Engineering	190,059	179,659	- 10,400
	Program Underexecution			- 13,400
	Gas Turbine Electric Start System Technology			+ 3,000
106	Standard Missile Improvements	186,144	176,144	- 10,000
	Program Growth			- 10,000
108	Naval Integrated Fire Control—Counter Air Systems Engineering	14,792		- 14,792
	Defer New Start			- 14,792
109	SSN-688 and Trident Modernization	94,839	106,839	+ 12,000
	Affordable Towed Array Construction			+ 2,000
	Improved Submarine Towed Array and Array Handler			+ 4,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Active Intercept and Ranging System			+ 2,000
	Common Submarine Radio Room			+ 4,000
112	Shipboard Aviation Systems	33,392	32,892	- 500
	Program Underexecution			- 3,500
	Aircraft Carrier Launch and Recovery Support Equipment Modernization			+ 2,000
	Synthetic Material Arresting Cable			+ 1,000
113	Combat Information Center Conversion	6,708	8,208	+ 1,500
	Command and Control Web Based Architecture			+ 1,500
114	New Design SSN	169,580	216,780	+ 47,200
	Large Aperture Bow Array on VIRGINIA Class			+ 16,000
	Flexible Payload Module and VIRGINIA Payload Interface Module			+ 15,000
	Large Scale Demonstration Item for VIRGINIA Class Bow Dome			+ 6,200
	Multilevel Secure Wireless Network			+ 2,000
	Advanced Submarine Research			+ 8,000
116	Submarine Tactical Warfare System	51,656	53,656	+ 2,000
	Automated Submarine Command and Control Center			+ 2,000
121	Lightweight Torpedo Development	40,540	35,040	- 5,500
	Defer New Start			- 5,500
124	Battle Group Passive Horizon Extension System		2,000	+ 2,000
	COBLU-Direction Finding Enhancement			+ 2,000
126	Ship Self Defense (Detect & Control)	10,050	15,250	+ 5,200
	Reusable Unambiguous Swimmer Warning Vehicle			+ 5,200
127	Ship Self Defense (Engage: Hard Kill)	46,390	51,390	+ 5,000
	Future Phalanx Improvements			+ 5,000
128	Ship Self Defense (Engage: Soft Kill/EW)	11,513	27,513	+ 16,000
	Shipboard Electronic Warfare Improvement Program			+ 5,000
	Advanced Radar Absorbing Tiles for Surface Ships			+ 2,000
	MK53 (Nulka) Decoy System			+ 4,000
	SLQ-32 ESM System Interference Cancellation			+ 5,000
130	Medical Development	7,663	9,663	+ 2,000
	Phase I Clinical Trials of Infusible Hemostatic Agent			+ 2,000
133	Joint Strike Fighter (JSF)	2,030,979	2,172,285	+ 141,306
	Maintain Development of 2nd Source for Engine			+ 170,000
	Excess Award Fee			- 31,694
	JSF Heat Exchanger Development; Weight Reduction and Performance			+ 3,000
136	Information Technology Development	88,323	127,423	+ 39,100
	SPAWAR Systems Center ITC			+ 15,000
	Internet Relay Chat Improvement and Upgrade Project			+ 3,000
	Enterprise Resource Planning (Navy Converged)			+ 8,100
	Digitization of NCIS Files			+ 8,000
	Integration of Logistics Info for Knowledge Projection and Readiness Assessments			+ 2,000
	Condition-based Maintenance Enabling Technologies Program			+ 3,000
138	CH-53X RDTE	362,672	357,672	- 5,000
	Program Reduction			- 5,000
142	Target Systems Development	45,666	50,666	+ 5,000
	Supersonic Sea Skimming Target—Air Diver/Coyote			+ 5,000
143	Major T&E Investment	39,750	48,750	+ 9,000
	Upgrading Range Instrumentation to Support Network Center Operations			+ 4,000
	Network Expansion & Integration of Navy/NASA RDT&E Ranges and Facilities			+ 5,000
148	Technical Information Services	670	21,670	+ 21,000
	Integrated Manufacturing Enterprise			+ 3,000
	Joint Information Technology Center			+ 6,000
	HTDV			+ 4,000
	Pacific-Based Joint Info Tech Center			+ 8,000
149	Management, Technical & International Support	47,213	45,413	- 1,800
	Program Growth			- 1,800

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
151	RDT&E Science and Technology Management	67,328	66,328	-1,000
	Program Growth			-1,000
157	SEW Surveillance/Reconnaissance Support	20,073	18,173	-1,900
	Program Underexecution			-1,900
158	Marine Corps Program Wide Support	25,343	31,343	+6,000
	Individual Chemical Alert System			+1,000
	Tactical AirSentinel			+3,000
	Field Rapid Assay Biological System			+2,000
163	HARPOON Modifications	36,284		-36,284
	Defer New Start			-36,284
164	Unmanned Combat Air Vehicle (UCAV) Advanced Component and Prototype Development	239,163		-239,163
	Program Underexecution			-239,163
169	Rapid Technology Transition (RTT)	39,285	35,485	-3,800
	Program Underexecution			-3,800
170	F/A-18 Squadrons	31,098	41,598	+10,500
	F/A-18 A-D Series Tech Manual Conversion			+3,000
	F/A-18 C-D Digital EW System			+5,000
	Military Rapid Response Command Information System			+2,500
171	E-2 Squadrons	1,540	7,540	+6,000
	Makaha Ridge FORCEnet Lab			+4,000
	E-2C/Advanced Hawkeye Transmitter Technologies			+2,000
174	Integrated Surveillance System	30,740	28,240	-2,500
	Program Underexecution			-2,500
179	HARM Improvement	99,208	94,208	-5,000
	Program Underexecution			-5,000
183	Aviation Improvements	71,612	89,212	+17,600
	Nanocrystalline Diamond Coatings for Complex Curved Impeller Blades			+2,300
	Real-Time Weight and Balance Measurement System for C-130s			+4,500
	Arc Fault Circuit Breaker with Arc Location System			+2,500
	Wireless Sensors for Navy Aircraft			+3,000
	Sacrificial Film Laminates for Navy Helicopter Windscreens			+2,300
	Advanced Avionics Miniaturization Program			+2,000
	F/A-18 Avionics Ground Support System			+1,000
186	Marine Corps Communications Systems	218,460	219,460	+1,000
	Wireless Tactical Remote Video/Sensor Surveillance System			+1,000
187	Marine Corps Ground Combat/Supporting Arms Systems	47,592	57,592	+10,000
	Amplifying Fluorescent Polymer Based IED Detection Devices			+2,000
	Precision Extended Range Munition			+8,000
195	Satellite Communications (SPACE)	748,662	750,662	+2,000
	Internet Protocol Version 6 Transition Planning Laboratory			+2,000
196	Information Systems Security Program	23,037	26,837	+3,800
	Universal Description, Discovery and Integration			+2,800
	SECURE			+1,000
204	Airborne Reconnaissance Systems	35,038	39,038	+4,000
	Deployable Unmanned Aerial Vehicle System for Targeting, Exploitation			+3,000
	Passive Collision Avoidance and Reconnaissance			+1,000
205	Manned Reconnaissance Systems	22,815	32,815	+10,000
	High Altitude Hyperspectral Imaging for Navy's SHARP Program			+3,000
	Sonochute-Launched VTOL UAVs			+2,000
	Collective Aperture Multi-Band Sensor System			+5,000
207	Aerial Common Sensor (ACS)	17,182		-17,182
	Defer Funding Pending Plan			-17,182
211	Industrial Preparedness	55,048	57,048	+2,000
	Polyetherimide Resin Foam Domestic Manufacturing Capability			+2,000
212	Maritime Technology (MARITECH)		16,100	+16,100
	National Shipbuilding Research Program			+10,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Naval Air Warfare Center Asset Visibility Business Process Improvement			+ 3,000
	Navy Automatic ID Technology Engineering Support Center			+ 3,100
999	Classified Programs	1,181,325	1,117,625	- 63,700

Ballistics Trajectory Extended Range Munition.—The Committee recommends an increase of \$15,000,000 to continue development of the Ballistics Trajectory Extended Range Munition and encourages the Navy to ensure that competition is maintained through the completion of the Extended Range Munition system design and development.

Directed Energy Research.—The emergence of new threats and opportunities in the area of maritime weapons systems is clearly demonstrated by on going work in directed energy and electric weapons systems, including radio frequency devices, rail guns, and high energy lasers. The Committee supports this research and has included an increase of \$30,000,000 to accelerate development in this field, including outfitting the Electromagnetic Research and Engineering Facility at the Navy Surface Warfare Center, Dahlgren, support for the free electron laser, rail gun research, counter Improvised Explosive Device efforts and other critical and innovative radio frequency research projects.

VH-71 Executive Helicopter.—The budget request included \$682,597,000 for the Presidential helicopters program. The program is in the System Development and Demonstration [SDD] phase with the critical design review planned for the last quarter of fiscal year 2006. This schedule change reflects a 10 month slip in the program in the last year. Due to the importance of upgrading the Presidential helicopter fleet, the program's schedule has been very compressed from initiation and the program office is still planning to meet the planned initial operating capability on time. However, slow execution and schedule slips for a variety of reasons have led to the situation where the program office will have significant funding available from prior years to apply to the fiscal year 2007 effort. Recognizing the forward financing, the budget request is reduced by \$125,000,000.

Unmanned Combat Air Vehicle.—The budget request includes \$239,163,000 for the Navy's program to mature and demonstrate the technologies for an aircraft carrier-based unmanned combat air vehicle [UCAV]. This program is the Navy's follow-on to the former Joint Unmanned Combat Air System project. The Committee supports this effort and understands that the Navy is still defining what technologies are needed and what the requirements for the UCAV will be. The program is currently operating with the funding from fiscal year 2006 and prior years. Due to the restructuring of the program, execution has been slow and sufficient funds are available from the fiscal year 2006 appropriation to finance the UCAV program through fiscal year 2007. Therefore, the Committee recommends no additional funds for UCAV in fiscal year 2007.

E-2C/Advanced Hawkeye Transmitter Technologies.—The Committee recognizes that the APS-145 transmitter replacement pro-

gram provides a significant increase in the readiness levels of the E-2C aircraft and extends its useful service life. The Committee encourages the Navy to include funding for this program as part of its annual budget. In addition, the Committee notes that technology used in the APS-145 transmitter replacement program could provide significant improvements to the technologies employed in the baseline transmitter for the E-2D Advanced Hawkeye. The Committee encourages the Navy to compare the technologies of an evolved APS-145 replacement transmitter to those of the baseline E-2D transmitter in terms of cost, weight, volume, reliability, and overall specification compliance.

Micromanufacturing Processes.—The Committee is aware of the growing need for microdevices and the limited micromanufacturing processes that can enhance the Department’s continuing investment in smart micromachines. The Committee believes that a streamlined micromanufacturing process will enhance the Department’s development and use of embedded biochemical sensors for munitions monitoring, miniature safe-and-arm devices, and actuator arrays for steerable projectiles. Microfabrication technologies will also greatly enhance the ability of the military to provide information on troop movement and location and enable the localization and recovery of injured soldiers.

The Department is instructed to work with universities with demonstrated expertise in novel micromanufacturing processes and equipment that have demonstrated success (1) in creating micromachines and the manufacturing processes underlying them, and (2) in working on these technologies with the Office of Naval Research and other service research entities.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE

Appropriations, 2006	\$21,780,755,000
Budget estimate, 2007	24,396,767,000
House allowance	24,457,062,000
Committee recommendation	23,974,081,000

The Committee recommends an appropriation of \$23,974,081,000. This is \$422,686,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
	RESEARCH, DEVELOPMENT, TEST & EVAL, AF					
	BASIC RESEARCH:					
1	DEFENSE RESEARCH SCIENCES	250,232	259,832	259,732	+ 9,500	-100
2	UNIVERSITY RESEARCH INITIATIVES	107,571	112,571	114,471	+ 6,900	+ 1,900
3	HIGH ENERGY LASER RESEARCH INITIATIVES	12,403	12,403	12,403	.....	.....
	TOTAL, BASIC RESEARCH	370,206	384,806	386,606	+ 16,400	+ 1,800
	APPLIED RESEARCH:					
4	MEDICAL DEVELOPMENT	24,300	24,300	.....	.....	-24,300
5	MATERIALS	111,073	144,273	146,473	+35,400	+2,200
6	AEROSPACE VEHICLE TECHNOLOGIES	112,751	124,351	118,751	+ 6,000	-5,600
7	HUMAN EFFECTIVENESS APPLIED RESEARCH	92,991	104,691	103,591	+10,600	-1,100
8	AEROSPACE PROPULSION	170,885	204,835	200,885	+30,000	-3,950
9	AEROSPACE SENSORS	117,553	132,553	127,053	+ 9,500	-5,500
10	MULTI-DISCIPLINARY SPACE TECHNOLOGY	3,500	3,500	2,500	+ 2,500	-1,000
11	SPACE TECHNOLOGY	85,594	90,344	106,579	+20,985	+ 16,235
12	CONVENTIONAL MUNITIONS	62,105	62,105	64,105	+ 2,000	+ 2,000
13	DIRECTED ENERGY TECHNOLOGY	48,422	57,422	50,922	+ 2,500	-6,500
14	COMMAND CONTROL AND COMMUNICATIONS	119,267	122,267	121,767	+ 2,500	-500
16	HIGH ENERGY LASER RESEARCH	50,166	51,166	54,166	+ 4,000	+ 3,000
17	JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS)	2,287	2,287	2,287	.....	.....
	TOTAL, APPLIED RESEARCH	973,094	1,124,094	1,099,079	+ 125,985	-25,015
	ADVANCED TECHNOLOGY DEVELOPMENT:					
18	ADVANCED MATERIALS FOR WEAPON SYSTEMS	48,901	66,501	79,201	+ 30,300	+ 12,700
19	ADVANCED AEROSPACE SENSORS	55,150	60,450	55,150	.....	-5,300
20	AEROSPACE TECHNOLOGY DEV/DEMO	27,424	69,548	38,424	+11,000	-31,124
21	AEROSPACE PROPULSION AND POWER TECHNOLOGY	115,546	141,546	140,346	+24,800	-1,200
22	CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOGY	32,156	49,006	32,156	.....	-16,850
23	ELECTRONIC COMBAT TECHNOLOGY	24,436	30,436	27,936	+ 3,500	-2,500
24	BALLISTIC MISSILE TECHNOLOGY	9,000	9,000	4,500	+ 4,500	-4,500
26	ADVANCED SPACECRAFT TECHNOLOGY	68,026	92,926	102,026	+ 34,000	+ 9,100
27	MAUI SPACE SURVEILLANCE SYSTEM (MSS)	6,074	6,074	52,074	+46,000	+ 46,000

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
29	CONVENTIONAL WEAPONS TECHNOLOGY	19,658	45,958	19,658		-26,300
30	ADVANCED WEAPONS TECHNOLOGY	51,336	62,336	73,336	+22,000	+11,000
32	C-31 ADVANCED DEVELOPMENT	35,785	48,535	38,785	+3,000	-9,750
33	SPECIAL PROGRAMS	316,605	316,605	316,605		
35	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	3,713	3,713	3,713		
36	TACTICAL AIRBORNE CONTROL SYSTEMS	26	26	26		
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	804,836	1,002,660	983,936	+179,100	-18,724
	DEMONSTRATION & VALIDATION:					
40	INTELLIGENCE ADVANCED DEVELOPMENT	4,776	6,776	4,776		-2,000
41	PHYSICAL SECURITY EQUIPMENT	298	298	298		
42	NAVSTAR GLOBAL POSITIONING SYSTEM III	315,314	315,314	315,314		
43	ADVANCED EHF MILSATCOM (SPACE)	633,258	633,258	633,258		
44	POLAR MILSATCOM (SPACE)	35,685	35,685	35,685		
45	SPACE CONTROL TECHNOLOGY	27,076	27,076	31,076	+4,000	+4,000
46	COMBAT IDENTIFICATION TECHNOLOGY	26,517	26,517	26,517		
47	NATO RESEARCH AND DEVELOPMENT	4,095	4,095	4,095		
48	INTERNATIONAL SPACE COOPERATIVE R&D	593	593	593		
49	TRANSFORMATIONAL SATCOM (TSAT)	867,102	767,102	637,102	-230,000	-130,000
50	INTEGRATED BROADCAST SERVICE	20,592	20,592	20,592		
51	INTERCONTINENTAL BALLISTIC MISSILE	45,538	65,038	45,538		-19,500
52	WIDEBAND GAPFILLER SYSTEM RDT&E (SPACE)	37,672	37,672	37,672		
53	SPACE-BASED RADAR	266,401	200,000	166,401	-100,000	-33,599
54	POLLUTION PREVENTION (DEM/VAL)	2,853	7,553	4,353	+1,500	-3,200
55	JOINT PRECISION APPROACH AND LANDING SYSTEMS	10,011	10,011	10,011		
56	NEXT GENERATION BOMBER	25,598	25,598	25,598		
60	COMMON AERO VEHICLE (CAV)	33,386	33,386	33,386		
61	OPERATIONALLY RESPONSIVE SPACE	35,625	23,601	35,625		+12,024
63	NATIONAL POLAR-ORBITING OPERATIONAL ENVIRONMENTAL SAT	349,311	349,311	349,311		
	TOTAL, DEMONSTRATION & VALIDATION	2,741,701	2,989,476	2,417,201	-324,500	-172,275
	ENGINEERING & MANUFACTURING DEVELOPMENT:					
64	GLOBAL BROADCAST SERVICE (GBS)	23,599	25,599	23,599		-2,000
65	JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS)	2,792	2,792	2,792		

66	NUCLEAR WEAPONS SUPPORT	14,895	14,895	14,895	14,895	.....	.....	.....	.....
67	B-1B	130,546	130,546	130,546	130,546	.....	.....	.....	.....
68	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	3,703	3,703	3,703	3,703	.....	.....	.....	.....
70	B-2 ADVANCED TECHNOLOGY BOMBER	224,177	240,177	240,177	231,177	.....	+ 7,000	.....	- 9,000
71	PERSONNEL RECOVERY SYSTEMS	254,310	224,310	224,310	201,455	.....	- 52,855	.....	- 22,855
72	ELECTRONIC WAREFARE DEVELOPMENT	87,784	92,184	92,184	93,684	.....	+ 5,900	.....	+ 1,500
74	PHYSICAL SECURITY EQUIPMENT	93	93	93	93	.....	.....	.....	.....
75	SMALL DIAMETER BOMB (SDB)	104,080	106,080	106,080	104,080	.....	.....	.....	- 2,000
76	COUNTERSPACE SYSTEMS	47,292	47,292	47,292	50,319	.....	+ 3,027	.....	+ 3,027
77	SPACE SITUATION AWARENESS SYSTEMS	121,157	121,157	121,157	123,157	.....	+ 2,000	.....	+ 2,000
78	AIRBORNE ELECTRONIC ATTACK	12,421	12,421	12,421	12,421	.....	.....	.....	.....
79	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD	668,902	668,902	668,902	668,902	.....	.....	.....	.....
80	ALTERNATIVE INFRARED SPACE SYSTEM (AIRSS)	102,962	67,962	67,962	102,962	.....	.....	.....	+ 35,000
83	ARMAMENT/ORDNANCE DEVELOPMENT	5,039	5,039	5,039	5,039	.....	.....	.....	.....
84	SUBMUNITIONS	5,759	5,759	5,759	9,759	.....	+ 4,000	.....	+ 4,000
85	AGILE COMBAT SUPPORT	10,095	10,095	10,095	10,095	.....	.....	.....	.....
86	JOINT DIRECT ATTACK MUNITION	15,450	15,450	15,450	15,450	.....	.....	.....	.....
87	LIFE SUPPORT SYSTEMS	12,370	14,170	14,170	12,370	.....	.....	.....	- 1,800
88	COMBAT TRAINING RANGES	14,363	17,363	17,363	14,363	.....	.....	.....	- 3,000
89	INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A)	167	17,467	17,467	9,167	.....	+ 9,000	.....	- 8,300
91	COMMON LOW OBSERVABLES VERIFICATION SYSTEM (CLOVERS)	1,426	3,426	3,426	5,426	.....	+ 4,000	.....	+ 2,000
92	JOINT STRIKE FIGHTER (JSF)	1,999,068	2,200,568	2,200,568	2,137,374	.....	+ 138,306	.....	- 63,194
94	EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE)	18,513	20,513	20,513	18,513	.....	.....	.....	- 2,000
95	RD&E FOR AGING AIRCRAFT	25,490	26,490	26,490	27,490	.....	+ 2,000	.....	+ 1,000
96	TEST AND EVALUATION SUPPORT	2,388	2,388	2,388	2,388	.....	.....	.....	.....
97	LINK-16 SUPPORT AND SUSTAINMENT	172,625	174,625	174,625	172,625	.....	.....	.....	- 2,000
99	E-10 SQUADRONS	390,896	390,896	390,896	390,896	.....	.....	.....	.....
100	SINGLE INTEGRATED AIR PICTURE (SIAP)	40,124	40,124	40,124	40,124	.....	.....	.....	.....
101	FULL COMBAT MISSION TRAINING	32,243	35,843	35,843	32,243	.....	.....	.....	- 3,600
103	CV-22	26,601	26,601	26,601	26,601	.....	.....	.....	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	4,571,330	4,769,430	4,769,430	4,698,208	.....	+ 126,878	.....	- 71,222
104	RD&E MANAGEMENT SUPPORT:								
105	THREAT SIMULATOR DEVELOPMENT	38,131	38,131	38,131	38,131	.....	.....	.....	.....
106	MAJOR T&E INVESTMENT	58,506	63,506	63,506	58,506	.....	.....	.....	- 5,000
109	RAND PROJECT AIR FORCE	25,211	28,211	28,211	25,211	.....	.....	.....	- 3,000
110	INITIAL OPERATIONAL TEST & EVALUATION	34,802	34,802	34,802	34,802	.....	.....	.....	.....
111	TEST AND EVALUATION SUPPORT	740,134	740,134	740,134	740,134	.....	.....	.....	.....
	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	14,704	29,704	29,704	14,704	.....	.....	.....	- 15,000

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
112	SPACE TEST PROGRAM (STP)	46,310	46,310	46,310		
113	FACILITIES RESTORATION & MODERNIZATION—TEST & EVAL	54,683	55,683	54,683		—1,000
114	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT	25,579	29,579	25,579		—4,000
115	GENERAL SKILL TRAINING	305	305	305		
118	INTERNATIONAL ACTIVITIES	3,911	3,911	3,911		
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,042,276	1,070,276	1,042,276		—28,000
	OPERATIONAL SYSTEMS DEVELOPMENT:					
119	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	8,014	8,014	8,014		
121	B-52 SQUADRONS	71,379	77,379	71,379		—6,000
122	ADVANCED CRUISE MISSILE	6,983	6,983	6,983		
123	AIR-LAUNCHED CRUISE MISSILE (ALCM)	3,736	3,736	3,736		
124	STRAT WAR PLANNING SYSTEM—USSTRATCOM	27,285	27,285	30,285	+ 3,000	+ 3,000
125	NIGHT FIST—USSTRATCOM	5,162	5,162	5,162		
126	ADVANCED STRATEGIC PROGRAMS	22,423	22,423	22,423		
127	REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION	14,853	14,853	14,853		
128	WARFIGHTER RAPID ACQUISITION PROCESS (WRAP) RAPID TRAIN	30,584	30,584	30,584		
129	A-10 SQUADRONS	80,771	16,771	31,971	—48,800	+ 15,200
130	F-16 SQUADRONS	148,373	152,373	151,273	+ 2,900	—1,100
131	F-15E SQUADRONS	125,062	138,062	125,062		—13,000
132	MANNED DESTRUCTIVE SUPPRESSION	515	515	515		
133	F-22 SQUADRONS	584,290	484,290	434,290	—150,000	—50,000
134	F-117A SQUADRONS	14,093	14,093	14,093		
135	TACTICAL AIM MISSILES	8,850	8,850	8,850		
136	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	43,417	43,417	43,417		
138	AF TENCAP	11,202	11,202	11,202		
139	SPECIAL EVALUATION PROGRAM	530,038	530,038	530,038		
140	COMPASS CALL	4,469	15,969	4,469		—11,500
141	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	154,319	154,319	154,319		
142	CSAF INNOVATION PROGRAM	1,612	1,612	1,612		
143	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)	40,881	40,881	40,881		
144	AIR AND SPACE OPERATIONS CENTER (AOC)	87,483	77,483	77,483	—10,000	
145	CONTROL AND REPORTING CENTER (CRC)	8,798	8,798	8,798		
146	AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)	165,820	165,820	165,820		

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
202	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	120,777	124,577	120,777	.....	-3,800
203	PREDATOR UAV (JMIP)	61,466	63,966	67,466	+ 6,000	+3,500
204	GLOBAL HAWK UAV	247,665	248,665	247,665	.....	-1,000
205	NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA)	8,499	8,499	8,499	.....	.....
206	INTELLIGENCE SUPPORT TO INFORMATION WARFARE	5,163	5,163	5,163	.....	.....
207	NCMC—TW/AA SYSTEM	50,908	16,308	57,908	+ 7,000	+ 41,600
209	NUDET DETECTION SYSTEM (SPACE)	60,281	60,281	60,281	.....	.....
211	NATIONAL SECURITY SPACE OFFICE	13,437	13,437	13,437	.....	.....
212	SPACE SITUATION AWARENESS OPERATIONS	31,401	31,401	31,401	.....	.....
213	MASS. IO TECHNOLOGY INTEGRATION & TOOL DEV	15,449	15,449	15,449	.....	.....
214	SHARED EARLY WARNING (SEW)	2,999	2,999	2,999	.....	.....
215	C-130 AIRLIFT SQUADRON	248,283	213,783	250,283	+ 2,000	+ 36,500
216	C-5 AIRLIFT SQUADRONS	150,209	152,209	150,209	.....	-2,000
217	C-17 AIRCRAFT	173,781	173,781	173,781	.....	.....
218	C-130J PROGRAM	40,542	44,542	40,542	.....	-4,000
220	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCMI)	34,916	39,916	42,416	+ 7,500	+ 2,500
221	KC-135S	1,126	1,126	1,126	.....	.....
222	KC-10S	4,781	4,781	4,781	.....	.....
223	KC-135 TANKER REPLACEMENT	203,932	203,932	.....	- 203,932	- 203,932
224	AIR MOBILITY TACTICAL DATA LINK	32,099	20,099	22,099	- 10,000	+ 2,000
225	SPECIAL TACTICS/COMBAT CONTROL	1,024	3,024	1,024	.....	-2,000
226	DEPOT MAINTENANCE (NON-IF)	1,457	1,457	1,457	.....	.....
228	ACQUISITION AND MANAGEMENT SUPPORT	17,706	17,706	17,706	.....	.....
229	INDUSTRIAL PREPAREDNESS	36,673	54,473	69,073	+ 32,400	+ 14,600
230	LOGISTICS SUPPORT ACTIVITIES .....	.....	2,000	.....	.....	-2,000
231	LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	166,338	136,338	106,338	-60,000	-30,000
232	SUPPORT SYSTEMS DEVELOPMENT	10,596	26,696	27,996	+ 17,400	+ 1,300
233	JOINT NATIONAL TRAINING CENTER	3,073	3,073	3,073	.....	.....
234	OTHER PERSONNEL ACTIVITIES	113	113	113	.....	.....
235	JOINT PERSONNEL RECOVERY AGENCY	992	992	992	.....	.....
236	CIVILIAN COMPENSATION PROGRAM	7,779	7,779	7,779	.....	.....
237	PERSONNEL ADMINISTRATION	18,262	18,262	18,262	.....	.....
238	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	27,541	27,541	27,541	.....	.....
239	LIGHT CARGO AIRCRAFT .....	.....	15,783	15,783	+ 15,783	.....

999	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	6,697,170	6,467,303	6,230,421	- 466,749	- 236,882
	CLASSIFIED PROGRAMS	7,196,154	7,049,017	7,116,354	- 79,800	+ 67,337
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AF	24,396,767	24,457,062	23,974,081	- 422,686	- 482,981

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
1	DEFENSE RESEARCH SCIENCES	250,232	259,732	+ 9,500
	National Hypersonic Research Center			+ 2,000
	New Methods for Designing and Testing Aircraft Coatings			+ 2,500
	Smart Surfaces and Interfaces			+ 1,000
	Virtual Tele-operation for Unmanned Aerial Vehicles			+ 4,000
2	UNIVERSITY RESEARCH INITIATIVES	107,571	114,471	+ 6,900
	High Assurance Software Engineering			+ 3,900
	High Temperature Hydrogen Energy Production			+ 1,000
	Partnership in Innovative Preparation for Educators and Students			+ 2,000
5	MATERIALS	111,073	146,473	+ 35,400
	Advanced Aerospace Manufacturing Technologies			+ 5,000
	Advanced Materials Deposition for Semiconductor Nanostructure			+ 1,400
	Advanced Materials Development for Force Protection			+ 2,000
	Air Force Minority Leader Program			+ 10,000
	Nanomaterials for Defense Aerospace Commerce Technologies			+ 1,000
	Domestic High Modulus PAN Carbon Fiber Qualification			+ 3,000
	Durable Hybrid Coatings for Aircraft Systems			+ 2,000
	Engineered Optical Materials for Quantum Cryptography			+ 2,000
	Fire and Blast Resistant Materials for Force Protection			+ 2,000
	Blast Resistant Panels for Protection to Buildings and Vehicles			+ 2,000
	Safer Nanomaterials and Nanomanufacturing			+ 5,000
6	AEROSPACE VEHICLE TECHNOLOGIES	112,751	118,751	+ 6,000
	Characterization of Airborne Environment for Tactical Lasers			+ 4,000
	Sentient Adaptive Systems Tech for Vehicle Condition-based Maintenance			+ 1,000
	Unmanned Aerial Vehicle Research			+ 1,000
7	HUMAN EFFECTIVENESS APPLIED RESEARCH	92,991	103,591	+ 10,600
	COM Attitude Control System Simulation/Trainer			+ 2,500
	Solid Electrolyte Oxygen Separator			+ 6,600
	Warfighter Sustainability: Maximizing Human Performance			+ 1,500
8	AEROSPACE PROPULSION	170,885	200,885	+ 30,000
	Active Combustion Control System for Military Aircraft			+ 6,000
	Advanced Vortex Hybrid Propulsion System			+ 3,000
	Affordable Lightweight Power Supply Development			+ 1,000
	High-Energy Laser for Detection, Inspection, Non-destructive Testing			+ 6,000
	Manufacturing of High Energy Superior Lithium Battery Technology			+ 8,000
	X-51 Robust Scramjet Flight Research			+ 6,000
9	AEROSPACE SENSORS	117,553	127,053	+ 9,500
	Advanced Sensor Aided Vigilance Technologies			+ 2,000
	Super-Resolution Sensor System			+ 3,000
	Sensor Network Technology			+ 1,500
	Wideband Digital Airborne Electronic Sensing Array			+ 3,000
10	MULTI-DISCIPLINARY SPACE TECHNOLOGY		2,500	+ 2,500
	Integrated Control for Autonomous Space Systems			+ 2,500
11	SPACE TECHNOLOGY	85,594	106,579	+ 20,985
	Deployable Structures Experiment			+ 2,000
	Field Programmable Gate Array			+ 2,000
	Flexible CIGS Solar Cells on Silicone Substrates for Spacecraft			+ 1,500
	HAARP			+ 4,000
	Joint Micro Power Initiative			+ 1,000
	Multicontinuum Technology for Space Structures			+ 2,200
	Nanoscale Microelectronic Circuit Technology Development			+ 2,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Shielding Rocket Payloads			+ 285
	USAF National Security Research—Signature Exploitation			+ 2,000
	Space-Qualified Common Data Link			+ 4,000
12	CONVENTIONAL MUNITIONS	62,105	64,105	+ 2,000
	Advanced Energy Technology for Munitions—Dominant Program			+ 2,000
13	DIRECTED ENERGY TECHNOLOGY	48,422	50,922	+ 2,500
	Adaptive Optics Lasercom			+ 2,500
14	COMMAND CONTROL AND COMMUNICATIONS	119,267	121,767	+ 2,500
	Advanced Collaboration Platform for Net Centric C2			+ 1,000
	MASINT Warfighter Visualization Tools			+ 1,500
16	HIGH ENERGY LASER RESEARCH	50,166	54,166	+ 4,000
	Air Laser Technology Development			+ 4,000
18	ADVANCED MATERIALS FOR WEAPON SYSTEMS	48,901	79,201	+ 30,300
	Blast-Resistant Barriers and Structural Design for Homeland Defense			+ 2,000
	Advanced Power Tech: Silicon-Carbide Power, Bipolar Junction Transistors			+ 4,000
	Assessing Aging of Military Aircraft			+ 3,000
	Hybrid Bearing			+ 3,000
	Hydrothermal Oxidation (HTO) for Alaska			+ 4,100
	Improved Stealth Aircraft Availability/Functionality			+ 3,000
	Inspection and Analysis Methods for Aging Military Aircraft			+ 3,000
	Materials Integrity Management Research for AF Systems			+ 1,000
	Silicon Carbide Electronics Material Producibility Initiative			+ 7,200
20	AEROSPACE TECHNOLOGY DEV/DEMO	27,424	38,424	+ 11,000
	3-D Woven/Braided Composites			+ 1,000
	Advanced Aluminum Aerostructures Initiative			+ 2,000
	Hybrid Radio Frequency/Optical Communications Terminal			+ 1,000
	Phasor-Bird Helmet Tracker			+ 2,000
	Titanium Honeycomb Sandwich and Composite Structures			+ 2,000
	National Capabilities Analysis Collaborative, Phase III			+ 3,000
21	AEROSPACE PROPULSION AND POWER TECHNOLOGY	115,546	140,346	+ 24,800
	Acceleration VAATE Adv Supersonic Cruise Missile Engine			+ 10,000
	Development of Bi-Polar Wafer-cell NI-MH battery			+ 2,000
	Flexible JP-8 Military Fuel Certification			+ 2,000
	Silicon Carbide Power Electronics for More Electric Aircraft			+ 8,300
	VAATE XTC58F Turbo Fan Engine			+ 2,500
23	ELECTRONIC COMBAT TECHNOLOGY	24,436	27,936	+ 3,500
	Affordable Visible Missile Warning System			+ 3,500
24	BALLISTIC MISSILE TECHNOLOGY		4,500	+ 4,500
	Pacific Ballistic Missile Technology Program			+ 1,500
	P-Net			+ 3,000
26	ADVANCED SPACECRAFT TECHNOLOGY	68,026	102,026	+ 34,000
	COTS Technology for Situational Space Awareness			+ 2,000
	Integrated Passive Microelectronic Components			+ 1,500
	Integrated Spacecraft Engineering Tool			+ 2,000
	Intelligent Free Space Optical Satellite Communications Node			+ 3,000
	Massively Parallel Optical Interconnects			+ 2,500
	Microsatellite Serial Manufacturing			+ 2,000
	Systematic Hierarchical Approach to Radiation Hardened Electronics			+ 5,000
	Thin Film Amorphous Solar Arrays			+ 16,000
27	MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	6,074	52,074	+ 46,000
	High Accuracy Network Determination System (HANDS)			+ 8,000
	Maui Space Surveillance System (MSSS) Operations and Research			+ 25,000
	PanSTARRS			+ 13,000
30	ADVANCED WEAPONS TECHNOLOGY	51,336	73,336	+ 22,000
	Advanced Weapons and Laser Diode Development			+ 4,000
	Applications of LIDAR to Vehicles with Analysis (ALVA)			+ 7,000
	Lightweight Multi-purpose Laser			+ 6,000
	Mid-Infrared Semiconductor Laser Technology			+ 3,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Real-time Optical Surveillance Applications			+ 2,000
32	C3I ADVANCED DEVELOPMENT	35,785	38,785	+ 3,000
	MPOI for Battlespace Information Exchange			+ 3,000
45	SPACE CONTROL TECHNOLOGY	27,076	31,076	+ 4,000
	Multi-mission Deployable Optical System			+ 4,000
49	TRANSFORMATIONAL SATCOM (TSAT)	867,102	637,102	- 230,000
	Program Moderation			- 230,000
53	SPACE RADAR	266,401	166,401	- 100,000
	Program Moderation			- 100,000
54	POLLUTION PREVENTION	2,853	4,353	+ 1,500
	O2 Diesel Particulate Emission Reduction Research Project			+ 1,500
70	B-2 ADVANCED TECHNOLOGY BOMBER	224,177	231,177	+ 7,000
	Massive Ordnance Penetrator (MOP)			+ 7,000
71	PERSONNEL RECOVERY SYSTEMS	254,310	201,455	- 52,855
	SDD Contract Delay			- 52,855
72	ELECTRONIC WARFARE DEVELOPMENT	87,784	93,684	+ 5,900
	ALR-69A Transfer from APAF			+ 4,400
	Rapid Replacement of Mission Critical Logistics Electronics			+ 1,500
76	COUNTERSPACE SYSTEMS	47,292	50,319	+ 3,027
	Rapid Identification Detection and Reporting System			- 4,973
	Space Control Test Capabilities			+ 8,000
77	SPACE SITUATION AWARENESS SYSTEMS	121,157	123,157	+ 2,000
	Joint Space Intelligent Decision Support			+ 2,000
84	SUBMUNITIONS	5,759	9,759	+ 4,000
	Virtual Teleoperation for Unmanned Aerial Vehicles			+ 4,000
89	INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A)	167	9,167	+ 9,000
	Asset eWing			+ 5,000
	Distributed Mission Interoperability Toolkit			+ 2,000
	Global Awareness Presentation System			+ 2,000
90	INTELLIGENCE EQUIPMENT	1,426	5,426	+ 4,000
	Electronic Warfare Modeling & Simulation			+ 4,000
91	COMMON LOW OBSERVABLES VERIFICATION SYSTEM (CLOVerS)		4,500	+ 4,500
	Transfer From APAF to Close Out Program			+ 4,500
92	JOINT STRIKE FIGHTER (JSF)	1,999,068	2,137,374	+ 138,306
	Maintain Development of 2nd Source Engine			+ 170,000
	Excess Accumulation of Withheld Award Fees			- 31,694
95	RDT&E FOR AGING AIRCRAFT	25,490	27,490	+ 2,000
	Aging Landing Gear Life Extension (ALGLE)			+ 2,000
124	STRAT WAR PLANNING SYSTEMS—USSTRATCOM	27,285	30,285	+ 3,000
	Global Command and Control Development			+ 3,000
129	A-10 SQUADRONS	80,771	31,971	- 48,800
	Propulsion Upgrade Program			- 48,800
130	F-16 SQUADRONS	148,373	151,273	+ 2,900
	F-16 Helmet Mounted Cueing System			+ 2,900
133	F/A-22 SQUADRONS	584,290	434,290	- 150,000
	Program Moderation			- 150,000
144	AIR & SPACE OPERATIONS CENTER (AOC)	87,483	77,483	- 10,000
	Program Moderation			- 10,000
148	ADVANCED COMMUNICATIONS SYSTEMS	53,093	43,093	- 10,000
	Program Moderation Due to JTRS Delays			- 10,000
153	BOMBER TACTICAL DATA LINK	168,168	101,168	- 67,000
	B-52 TDL Restructure			- 67,000
156	JOINT SURVEILLANCE/TARGET ATTACK RADAR SYSTEM (USTARS)	152,696	160,696	+ 8,000
	Communications, Navigation, and Surveillance ATM			+ 8,000
159	USAF MODELING AND SIMULATION	23,470	6,470	- 17,000
	Unclear Program Purpose, Program Underexecution			- 17,000
192	NAVSTAR GLOBAL POSITIONING SYSTEM (User Equipment) (SPACE)	131,083	136,083	+ 5,000
	Satellite Assets for Joint Navigation Warfare Center			+ 5,000
201	MANNED RECONNAISSANCE SYSTEMS	10,132	13,132	+ 3,000
	Combat Sent Tactical ELINT System Modernization			+ 3,000
203	PREDATOR UAV (JMIP)	61,466	67,466	+ 6,000
	Center for Defense UAV Education			+ 3,000
	ScanEagle UAV Advanced Concepts Development			+ 3,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
207	NCMC-TW/AA SYSTEM	50,908	57,908	+ 7,000
	CCIC2S Single Integrated Space Picture			+ 7,000
215	C-130 AIRLIFT SQUADRON	248,283	250,283	+ 2,000
	Electro-Magnetic In-Flight Propeller Balancing System			+ 2,000
220	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)	34,916	42,416	+ 7,500
	LAIRCM for AFSOC H/MC-130P			+ 7,500
223	KC-135 TANKER REPLACEMENT	203,932		- 203,932
	Delay in SDD Contract Award, Early to Need			- 203,932
224	AIR MOBILITY TACTICAL DATA LINK	32,099	22,099	- 10,000
	New Start Affordability			- 10,000
229	INDUSTRIAL PREPAREDNESS	36,673	69,073	+ 32,400
	EFG Sapphire Sheets for Large Aperture EO/IR Windows			+ 3,000
	Nanomaterial Advanced Prototyping—NMAP			+ 7,000
	Rapid Manufacturing and Repair of Composite Components			+ 2,000
	Reactive Plastic CO2 Absorbent Production Capacity			+ 4,400
	RFID Rapid Adoption Initiative, Phase II			+ 9,000
	F-35 Joint Strike Fighter Composite Engine Case			+ 4,000
	Supply Chain Optimization Universal Tool Kit			+ 3,000
231	LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	166,338	106,338	- 60,000
	Expeditionary Combat Support Sys: Delayed Obligations and Expenditures			- 60,000
232	SUPPORT SYSTEMS DEVELOPMENT	10,596	27,996	+ 17,400
	RFID Inventory Management and Patient ID			+ 3,900
	Advanced Modular Lithium-Ion Energy Storage			+ 2,000
	Defense Assured Fuels Initiative			+ 2,500
	Distributed Generation of Liquid Fuels			+ 3,000
	Heavy Duty Hybrid Electric Technology			+ 3,000
	WR-ALC Aircraft Sustainment Wing Aircraft Availability			+ 3,000
239	LIGHT CARGO AIRCRAFT: Transfer from APAF		15,783	+ 15,783
999	CLASSIFIED PROGRAMS	7,196,154	7,116,354	- 79,800

Rucksack Portable Receiver Suite [RPRS].—The Committee is aware that the U.S. Air Force Research Laboratory has sponsored, under the SBIR program, the development of a Rucksack Portable Receiver Suite for the Global Broadcast System. The Committee believes that RPRS offers a promising new tactical capability to forward deployed troops in the global war on terror. The Air Force Global Broadcast System Joint Program Office is encouraged to evaluate this new capability with the intent for rapid production and fielding given successful validation of performance criteria.

Maui Space Surveillance System [MSSS]/AMOS.—The Committee recommends an increase of \$25,000,000 over the President's budget request for sustainment, investment in new technologies and initiatives, and research and development activities at MSSS. The Committee is concerned that the Air Force will apply taxes to MSSS programs at excessive rates for lab overhead, and directs the Air Force to base its overhead charges only on the amount requested. None of the increases provided here shall be subject to Air Force taxes or withholds. Furthermore, research funds should be allocated by Air Force officials on-site to local programs that offer the greatest potential return and merit.

Transformational Satellite Communications [TSAT].—TSAT will provide significant military value to the Department of Defense. The Committee is encouraged by the changes that have been made to the program's acquisition strategy, which include adopting an evolved or block approach and funding the program at the 80 per-

cent confidence level. It is the Committee’s experience though, that excessive program growth across a short time span facilitates inefficiencies and can create problems for the Government and industry management teams to effectively supervise their program, which can lead to performance and cost overrun problems in the future. Thus, the Committee recommends a program funded at \$637,102,000 and notes this funding level allows for a significant program increase of \$207,858,000 over amounts appropriated in fiscal year 2006.

Space Radar.—Due to the uncertainty of the Space Radar program, the Committee recommends the program continue its concept definition and technology development activities with a moderate increase in program funding from fiscal year 2006. The Committee recommends program funding of \$166,401,000, an increase of \$68,148,000 over current year funding. Further, the Committee emphasizes the findings and report requirements as expressed in Senate Report 109–254 for this program.

KC-135 Tanker Replacement.—The Committee supports the requirement for the KC-135 Tanker and the resumption of acquisition activities. The Committee believes the available funding provided in fiscal year 2005 and fiscal year 2006 Defense appropriations for Tanker Replacement is sufficient to support the initiation of System Development and Demonstration [SDD] activities by the end of the fiscal year. Thus, the Committee recommends a decrease of \$203,932,000 for fiscal year 2007. The Committee notes that S. 2766, the National Defense Authorization Act for Fiscal Year 2007 includes a similar reduction for program schedule slip and contract delay.

Nano-material Advanced Prototyping.—Advancements in nano-materials hold the promise of better, lighter, and more capable defensive systems to improve the force protection of our military forces. These funds will provide equipment and material for the development of a defense nano-material advanced prototyping capability. This new capability will allow for quick and cost effective prototyping of trimetasheres and other nano-material prototypes to meet critical defense needs; to include material for advanced body armor, and coatings for reduced IR signatures and EMI shielding.

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE

Appropriations, 2006	\$19,601,606,000
Budget estimate, 2007	20,809,939,000
House allowance	21,208,264,000
Committee recommendation	20,543,393,000

The Committee recommends an appropriation of \$20,543,393,000. This is \$266,546,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
	RESEARCH, DEVELOPMENT, TEST & EVAL, DW					
	BASIC RESEARCH:					
1	DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH P	5,000	12,300	6,500	+1,500	-5,800
2	DEFENSE RESEARCH SCIENCES	150,690	173,190	139,715	-10,975	-33,475
3	GOVERNMENT/INDUSTRY COSPONSORSHIP OF UNIVERSITY RESEAR	2,700	2,700	.....	.....	-2,700
4	DEFENSE EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE	9,532	9,532	.....	.....	.....
5	NATIONAL DEFENSE EDUCATION PROGRAM	19,532	19,532	15,332	-4,200	-4,200
6	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	99,182	117,782	84,082	-15,100	-33,700
	TOTAL, BASIC RESEARCH	283,936	335,036	255,161	-28,775	-79,875
	APPLIED RESEARCH:					
7	INSENSITIVE MUNITIONS—EXPLORATORY DEVELOPMENT	10,447	10,447	11,197	+750	+750
8	MEDICAL FREE ELECTRON LASER	10,255	10,255	18,955	+8,700	+8,700
9	HISTORICALLY BLACK COLLEGES & UNIV (HBCU) SCIENCE	14,423	17,923	17,423	+3,000	-500
10	LINCOLN LABORATORY RESEARCH PROGRAM	28,975	28,975	28,975	.....	.....
11	INFORMATION AND COMMUNICATIONS TECHNOLOGY	242,852	242,852	229,452	-13,400	-13,400
12	COGNITIVE COMPUTING SYSTEMS	220,085	222,085	149,274	-70,811	-72,811
13	BIOLOGICAL WARFARE DEFENSE	112,242	112,242	113,342	+1,100	+1,100
14	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	280,422	284,822	236,572	-43,900	-48,300
15	TACTICAL TECHNOLOGY	383,680	388,280	315,622	-68,058	-72,658
16	MATERIALS AND BIOLOGICAL TECHNOLOGY	297,277	297,277	296,277	-1,000	-1,000
17	WMD DEFEAT TECHNOLOGY	213,152	215,552	219,152	+6,000	+3,600
18	ELECTRONICS TECHNOLOGY	246,978	248,978	215,597	-31,381	-33,381
19	WMD DEFENSE TECHNOLOGIES	105,021	111,021	105,021	.....	-6,000
21	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	12,698	22,698	14,698	+2,000	-8,000
22	SOF MEDICAL TECHNOLOGY DEVELOPMENT	2,293	2,293	2,293	.....	.....
23	MEDICAL ADVANCED TECHNOLOGY .....	.....	.....	2,000	+2,000	+2,000
	TOTAL, APPLIED RESEARCH	2,180,800	2,215,700	1,975,800	-205,000	-239,900
	ADVANCED TECHNOLOGY DEVELOPMENT:					
24	SO/LIC ADVANCED DEVELOPMENT	30,575	41,575	30,575	.....	-11,000
25	COMBATING TERRORISM TECHNOLOGY SUPPORT	65,768	121,018	73,268	+7,500	-47,750
26	COUNTERPROLIFERATION INITIATIVES—PROLIF PREY & DEFEAT	104,582	114,682	113,782	+9,200	-900

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
27	BALLISTIC MISSILE DEFENSE TECHNOLOGY	206,676	189,076	195,825	-10,851	+6,749
28	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	16,862	16,862	16,862	.....	.....
29	ADVANCED AEROSPACE SYSTEMS	115,829	115,829	46,200	-69,629	-69,629
30	SPACE PROGRAMS AND TECHNOLOGY	254,913	254,913	225,651	-29,262	-29,262
31	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEV	207,114	238,714	195,008	-12,106	-43,706
33	JOINT ELECTRONIC ADVANCED TECHNOLOGY	9,400	11,400	9,400	.....	-2,000
34	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	35,553	38,053	35,553	.....	-2,500
35	JOINT ROBOTICS PROGRAM/AUTONOMOUS SYSTEMS	7,700	7,700	10,200	+2,500	+2,500
36	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	23,437	63,737	114,287	+90,850	+90,850
37	DISTRIBUTION PROCESS OWNER TECH. DEV. & IMPLEMENTATION	15,215	15,215	10,215	-5,000	-5,000
38	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	67,149	68,149	64,749	-2,400	-3,400
39	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT .....	.....	46,600	21,200	+21,200	-25,400
40	JOINT WARFIGHTING PROGRAM	10,641	10,641	10,641	.....	.....
41	ADVANCED ELECTRONICS TECHNOLOGIES	248,627	250,627	231,627	-17,000	-19,000
42	ADVANCED CONCEPT TECHNOLOGY DEMONSTRATIONS	158,334	162,834	186,334	-2,000	-6,500
43	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	175,313	185,313	207,213	+31,900	+17,900
44	COMMAND, CONTROL, AND COMMUNICATIONS SYSTEMS	232,489	232,489	222,970	-9,569	-9,569
45	LAND WARFARE TECHNOLOGY	48,975	48,975	37,925	-11,050	-11,050
46	CLASSIFIED DARPA PROGRAMS	151,598	151,598	151,598	.....	.....
47	NETWORK-CENTRIC WARFARE TECHNOLOGY	174,276	174,276	151,042	-23,234	-23,234
48	SENSOR TECHNOLOGY	205,519	205,519	186,466	-19,053	-19,053
49	GUIDANCE TECHNOLOGY	157,367	157,367	133,867	-23,500	-23,500
50	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT	14,918	18,518	14,918	.....	-3,600
51	SOFTWARE ENGINEERING INSTITUTE	26,594	26,594	29,594	+3,000	+3,000
53	QUICK REACTION SPECIAL PROJECTS	107,782	107,782	108,782	+1,000	+1,000
54	JOINT EXPERIMENTATION	115,684	115,684	108,284	-7,400	-7,400
55	JOINT WARGAMING SIMULATION MANAGEMENT OFFICE	36,179	36,179	36,179	.....	.....
56	TEST & EVALUATION SCIENCE & TECHNOLOGY	39,939	39,939	44,939	+5,000	+5,000
57	TECHNOLOGY LINK	6,822	9,622	11,422	+4,600	+1,800
59	SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT	80,402	152,352	50,421	-29,981	-101,931
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	3,152,232	3,433,832	3,056,947	-95,285	-376,885
60	DEMONSTRATION & VALIDATION:					
	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT R	33,890	36,890	37,890	+4,000	+1,000

61	PHYSICAL SECURITY EQUIPMENT	22,383		2,000	+ 2,000	+ 2,000
62	RETRACT LARCH	12,210	22,383	22,383		
63	JOINT ROBOTICS PROGRAM	18,820	22,010	14,210	+ 2,000	- 7,800
64	ADVANCED SENSOR APPLICATIONS PROGRAM	28,841	20,320	19,820	+ 1,000	- 500
65	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	1,038,310	35,841	28,841		+ 73,000
66	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	2,876,972	1,008,310	1,111,310	+ 73,000	+ 103,000
67	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	631,616	2,758,072	3,103,972	+ 227,000	+ 345,900
68	BALLISTIC MISSILE DEFENSE BOOST DEFENSE SEGMENT	73,111	631,616	631,616		
69	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	514,510	87,111	76,111	+ 3,000	- 11,000
70	BALLISTIC MISSILE DEFENSE SENSORS	405,508	460,010	518,510	+ 4,000	+ 58,500
71	BALLISTIC MISSILE DEFENSE SYSTEM INTERCEPTOR	591,911	405,508	205,508	- 200,000	- 200,000
72	BALLISTIC MISSILE DEFENSE TEST & TARGETS	506,840	591,911	597,911	+ 6,000	+ 6,000
73	BALLISTIC MISSILE DEFENSE PRODUCTS			500,840	- 6,000	+ 500,840
74	BALLISTIC MISSILE DEFENSE C2BMC		242,789			- 242,789
	BALLISTIC MISSILE DEFENSE HERCULES		52,264			- 52,264
	BALLISTIC MISSILE DEFENSE JOINT WARRIOR SUPPORT		55,146			- 55,146
	BALLISTIC MISSILE DEFENSE JOINT NATIONAL INTERGRATION		102,809			- 102,809
	BALLISTIC MISSILE DEFENSE CONCURRENT TEST AND OPERATIO		23,257			- 23,257
75	SPECIAL PROGRAMS—MDA	473,077	476,777	428,077	- 45,000	- 48,700
76	AEGIS BMD	374,532	374,532	354,532	- 20,000	- 20,000
77	SPACE TRACKING & SURVEILLANCE SYSTEM	1,031,874	1,056,874	1,140,074	+ 108,200	+ 83,200
78	MULTIPLE KILL VEHICLES	390,585	323,585	315,585	- 75,000	- 8,000
79	HUMANITARIAN DEMINING	164,975	99,975	164,975		+ 65,000
80	COALITION WARFARE	5,878	14,489	14,489		
81	DEPARTMENT OF DEFENSE CORROSION PROGRAM	4,966	7,666	4,966		
82	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	3,047	3,047	3,047		- 2,700
84	JOINT SYSTEMS INTEGRATION COMMAND (JSIC)	20,755	20,755	20,755		
85	JOINT FIRES INTEGRATION & INTEROPERABILITY TEAM	16,782	16,782	16,782		
86	REDUCTION OF TOTAL OWNERSHIP COST	25,289	25,289	25,289		
87	JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM	3,672	4,672	7,672	+ 4,000	+ 3,000
88	TOTAL, DEMONSTRATION & VALIDATION	9,284,843	8,986,568	9,373,043	+ 88,200	+ 386,475
89	ENGINEERING & MANUFACTURING DEVELOPMENT:					
90	DEFENSE ACQUISITION CHALLENGE PROGRAM (DACP)	29,500	29,500	29,500		+ 3,500
91	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT R	9,277	9,277	12,777	+ 3,500	- 8,698
92	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	212,072	219,072	210,374	- 1,698	- 5,000
93	JOINT ROBOTICS PROGRAM	6,004	11,004	6,004		
94	ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)	9,392	9,392	9,392		
95	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	8,177	8,177	8,177		

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
96	INFORMATION TECHNOLOGY DEVELOPMENT	11,005	11,005	11,005		
101	BUSINESS TRANSFORMATION AGENCY R&D ACTIVITIES	140,245	142,245	160,245	+20,000	+18,000
102	TRUSTED FOUNDRY	42,522	42,522	42,522		
103	DEFENSE ACQUISITION EXECUTIVE (DAE) PILOT PROGRAM	6,015	6,015	1,000	-5,015	-5,015
104	DEFENSE MESSAGE SYSTEM	11,202	11,202	11,202		
105	INFORMATION SYSTEMS SECURITY PROGRAM			2,000	+2,000	+2,000
106	GLOBAL COMBAT SUPPORT SYSTEM	18,556	18,556	18,556		
107	JOINT COMMAND AND CONTROL PROGRAM (JC2)	47,031	50,031	24,031	-23,000	-26,000
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	550,998	567,998	546,785	-4,213	-21,213
	ROD&E MANAGEMENT SUPPORT:					
112	TRAINING TRANSFORMATION (T2)	72,897	78,197	72,897		-5,300
115	DEFENSE READINESS REPORTING SYSTEM (DRRS)	10,322	13,922	10,322		-3,600
116	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	9,390	9,390	9,390		
117	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT	130,290	132,290	138,290	+8,000	+6,000
118	THERMAL VCAR	7,492	7,492	7,492		
119	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMTC)	10,600	10,600	10,600		
120	TECHNICAL STUDIES, SUPPORT AND ANALYSIS	30,339	31,339	35,339	+5,000	+4,000
122	USD(A&T)—CRITICAL TECHNOLOGY SUPPORT	2,029	2,029	4,029	+2,000	+2,000
124	FOREIGN MATERIAL ACQUISITION AND EXPLOITATION	38,253	38,253	38,253		
127	JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION	52,486	52,486	52,486		
128	CLASSIFIED PROGRAM USDP)		90,000	98,000	+8,000	+8,000
129	FOREIGN COMPARATIVE TESTING	31,995	31,995	31,995		
130	NUCLEAR MATTERS—PHYSICAL SECURITY	4,285	4,285	4,285		
131	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	10,990	10,990	16,990	+6,000	+6,000
132	GENERAL SUPPORT TO USD (INTELLIGENCE)	5,637	5,637	5,637		
133	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	80,134	82,834	84,134	+4,000	+1,300
138	SMALL BUSINESS INNOVATION RESEARCH/CHALLENGE ADMINSTR	2,073	6,373	2,073		-4,300
139	DEFENSE TECHNOLOGY ANALYSIS	5,577	5,577	8,577	+3,000	+3,000
140	FORCE TRANSFORMATION DIRECTORATE	20,404	50,404	23,904	+3,500	-26,500
141	DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	51,929	51,929	51,929		
142	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	9,348	9,348	9,348		
143	DEVELOPMENT TEST AND EVALUATION	9,203	9,203	9,203		
144	MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT)	50,951	50,951	45,951	-5,000	-5,000

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
213	SPECIAL OPERATIONS TACTICAL SYSTEMS DEVELOPMENT	45,241	88,241	51,713	+ 6,472	- 36,528
214	SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT	29,011	96,711	49,611	+ 20,600	- 47,100
215	SOF OPERATIONAL ENHANCEMENTS	99,010	104,510	108,810	+ 9,800	+ 4,300
217	SPECIAL OPERATIONS AIRCRAFT DEFENSIVE SYSTEMS	7,850	7,850	4,850	- 3,000	- 3,000
218	OPS ADVANCED SEAL DELIVERY SYSTEM (ASDS) DEVELOPMENT	32,452	32,452	32,452	.....	.....
219	MISSION TRAINING AND PREPARATION SYSTEMS (MTPS)	1,782	1,782	1,782	.....	.....
220	UNMANNED VEHICLES (UV)	1,521	3,521	1,521	.....	- 2,000
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	1,274,411	1,407,009	1,298,862	+ 24,451	- 108,147
999	CLASSIFIED PROGRAMS	3,312,490	3,382,992	3,142,066	- 170,424	- 240,926
	JOINT FORCES COMMAND .....	.....	- 30,000	.....	.....	+ 30,000
	TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DW	20,809,939	21,208,264	20,543,393	- 266,546	- 664,871

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
1	DTRA University Strategic Partnership Basic Research Program	5,000	6,500	+ 1,500
	University Strategic Partnership			+ 1,500
2	Defense Research Sciences	150,690	139,715	- 10,975
	Bio Interfaces			- 3,500
	Computer Science Study Group			- 3,573
	Carbon Nanotube RF Devices			- 1,000
	MEMS Science and Focus Centers			- 2,452
	Nanoscale/Biomolecular and MetaMaterials			- 3,450
	Spin Dependent Materials and Devices			- 3,000
	Advanced Materials Research Institute			+ 4,000
	Alternative Futures at the Range-Complex Level for the SW U.S.			+ 1,000
	Next Generation Protective Gear Research			+ 1,000
5	National Defense Education Program	19,532	15,332	- 4,200
	Unauthorized Program Expansion			- 4,200
6	Chemical and Biological Defense Program	99,182	84,082	- 15,100
	TMTI—Unexecutable Growth			- 28,600
	Detection of Biological Agents in Water			+ 1,500
	Fluorescence Activated Sensing Technology Integrated Threat Management System			+ 1,000
	High-Throughput Laboratory Initiative			+ 8,000
	Next Generation Protective Gear Research			+ 1,000
	Organic Light Emitting Receptor Based Nanosensors			+ 2,000
7	Insensitive Munitions—Exploratory Development	10,447	11,197	+ 750
	Non-lethal Stunning/Immobilizing Weapons			+ 750
8	Medical Free Electron Laser	10,255	18,955	+ 8,700
	Additional Funding			+ 8,700
9	Historically Black Colleges and Universities (HBCU) Science	14,423	17,423	+ 3,000
	Instrumentation Program for Tribal Programs			+ 3,000
11	Information & Communications Technology	242,852	229,452	- 13,400
	Responsive Computing Architectures			- 3,900
	Security-Aware Systems			- 3,000
	Automated Speech and Text Exploitation in Multiple Languages			- 6,500
12	Cognitive Computing Systems	220,085	149,274	- 70,811
	Integrated Cognitive Systems			- 60,000
	Learning Locomotion and Navigation			- 3,811
	Improved Warfighter Information Processing			- 7,000
13	Biological Warfare Defense	112,242	113,342	+ 1,100
	Detecting Emerging Classes of Explosives			+ 1,100
14	Chemical and Biological Defense Program	280,422	236,522	- 43,900
	TMTI—Unexecutable Growth			- 60,400
	Alternative Delivery Methods for Recombinant Protein Vaccines			+ 3,500
	Chemical/Biological Infrared Detection System			+ 2,500
	Escape Hood			+ 4,000
	Mustard Gas Antidote Research Consortium (STIMAL)			+ 1,000
	Nanowire Mesh Fabrics for Chemical and Biological Agent Defense			+ 1,500
	Personal Protection Against Infectious Agents			+ 4,000
15	Tactical Technology	383,680	315,622	- 68,058
	HyFly			- 6,376
	HEDLight			- 2,000
	Super-Fast Submerged Transport			- 1,500
	MAHEM			- 2,135
	Sweeper			- 2,000
	Maneuver & Control on the Urban Battlefield			- 2,000
	HELLADS			- 5,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Flare Aero Structures			-2,500
	Distributed Embedded Propulsion			-4,000
	Laminar Flow Flight Demonstration			-2,200
	Long Endurance Autonomous Powerfoil			-1,500
	TETURAN			-2,000
	Automated Battle Management			-7,400
	Home Field			-3,200
	Pre-Conflict Anticipation and Shaping			-6,247
	TOPVU			-6,000
	Execution Adjustment			-20,000
	CEROS			+7,000
	Research on a Molecular Approach to Hazardous Materials Decontamination			+1,000
16	Materials and Biological Technology	297,277	296,277	-1,000
	Neurotechnology for Intelligence Analysts			-5,000
	Strategic Materials			+4,000
17	WMD Defeat Technology	213,152	219,152	+6,000
	Project Ancile			+6,000
18	Electronics Technology	246,978	215,597	-31,381
	Clockless Logic			-2,500
	Metaphoric Computing			-3,000
	Advanced Digital Receiver Technology			-2,000
	TEAM			-3,000
	TFAST			-10,000
	Terahertz Imaging Focal-Plane Technology			-5,000
	AFPA			-5,039
	Bio-Electronics and Photonics			-3,000
	Linear Photonic RF Front End Technology			-3,594
	Multiple Optical Non-Redundant Aperture Generalized Sensors ...			-2,248
	3-D Technology for Advanced Sensor Systems			+4,000
	Innovative Processing Instrumentation for Fabrication of Three-Dimensional Microdevices			+4,000
21	Special Operations Technology Development	12,698	14,698	+2,000
	Wearable Hyperspectral Imaging System			+2,000
23	Medical Advanced Technology		2,000	+2,000
	Military Nutrition Research			+2,000
25	Combating Terrorism Technology Support	65,768	73,268	+7,500
	Asymmetric Warfare Initiative			+500
	Autonomous Border and Intrusion Surveillance Sensor Networks			+2,000
	Bioterrorism Operations Policy for Public Emergency Response (BOPPER)			+2,000
	Defense Against Explosive Effects/Explosive Loading Laboratory			+2,000
	Unmanned Aerial Vehicle Avionics Upgrade (UAVAU)			+1,000
26	Counterproliferation Initiatives—Proliferation Prevention and Defeat ..	104,582	113,782	+9,200
	DETECTIVE (HPGe Based) Radiation Portal Monitors			+2,000
	Guardian Glass Scintillation Fiber Radiation Detectors			+7,200
27	Ballistic Missile Defense Technology	206,676	195,825	-10,851
	High Altitude Airship			-25,000
	Sensing Systems			-15,651
	Advanced RF Technology Development			+1,000
	Center for Optical Logic Devices			+1,000
	Conformal Embedded Antennas for Aerial Platforms			+2,000
	MPOI for Micro Satellite Datacom Amplifier			+2,800
	Multiple-Target-Tracking Optical Sensor-Array Technology			+4,000
	NetCentric Airborne Defense Element			+15,000
	Photoconductor on Active Pixel Sensor (POAP)			+1,000
	SiC Thick Film Mirror Coatings			+3,000
29	Advanced Aerospace Systems	115,829	46,200	-69,629
	A160			-10,500
	Advanced Aeronautics Demonstration			-5,000
	Cormorant UAV			-14,600

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Heavy Fuel Engine for A160			- 10,729
	Critical Munition Capability			- 4,000
	Global Range Transatmospheric Vehicle			- 5,300
	Dual Mode Small Gunship			- 6,000
	Seaplane Unmanned Air Vehicle			- 5,500
	Heavy Lift			- 3,000
	CASTLE			- 5,000
30	Space Programs and Technology	254,913	225,651	- 29,262
	Orbital Express			- 10,000
	ISIS			- 16,262
	Radiation Hardening by Design			- 3,000
31	Chemical and Biological Defense Program—Advanced Development ..	207,114	195,008	- 12,106
	TMTI—Unexecutable Growth			- 36,106
	Chemical and Biological Defense Initiative			+ 1,000
	Engineered Biological Detectors for Biological Warfare			+ 1,000
	Low Cost Chemical Agent (CA) Detection System for Mission			
	Critical Facilities			+ 1,000
	NIDS Handheld Biological Agent Detectors			+ 6,500
	Plant Vaccine Development			+ 7,000
	Portable Rapid Bacterial Warfare Detection Unit			+ 1,500
	Rapid Response Database Systems Initiative			+ 1,000
	Reactive Coatings Enhanced to Resist Chemical/Biological Con-			
	tamination			+ 1,000
	Self-Detoxifying Materials in CB Protective Clothing			+ 2,000
	Small Accelerators and Detection Systems for Defense Applica-			
	tions			+ 2,000
35	Joint Robotics Program/Autonomous Systems	7,700	10,200	+ 2,500
	Improved Robot Combat Integration			+ 2,500
36	Generic Logistics R&D Technology Demonstrations	23,437	114,287	+ 90,850
	Advanced Mobile Gas-to-Liquid Fueler			+ 4,500
	Chameleon Miniaturized Wireless System			+ 12,000
	Defense Fuel Cell Locomotive			+ 3,000
	DOD Vehicle Fuel Cell Program			+ 7,000
	High Energy Battery Development for Aerial Vehicles			+ 7,500
	Hydrogen Logistics Fuel Initiative			+ 3,000
	New England Manufacturing Supply Chain Initiative			+ 3,000
	Next Generation Manufacturing Technologies Initiative			+ 6,000
	Silicon-38 Deposition Methodology Project			+ 1,000
	Solid Hydrogen Storage and Fuel Cell Systems			+ 4,000
	Solid Hydrogen Storage Initiative			+ 8,000
	Spray Technique Analysis and Research for Defense			+ 2,000
	Ultra-Low Power Battlefield Sensor System			+ 29,850
37	Distribution Process Owner Technology Development and Implementa-			
	tion	15,215	10,215	- 5,000
	Project 2—Lack of Transition Plan			- 5,000
38	Strategic Environmental Research Program	67,149	64,749	- 2,400
	Funding Ahead of Need			- 4,400
	Dendrimer Enhanced Water Remediation Research			+ 2,000
39	Microelectronics Technology Development and Support		21,200	+ 21,200
	Advanced Surface Radar Technologies			+ 8,500
	Emergency Power Source for National Guardsmen			+ 1,700
	Feature Size Migration at DMEA ARMS Foundry			+ 7,000
	Locust MAV Enhancement Program			+ 2,000
	Superlattice Nanotechnology			+ 2,000
41	Advanced Electronics Technologies	248,627	231,627	- 17,000
	Digital Control of Analog Circuits RF Front Ends			- 5,000
	Analog Spectral Processors			- 2,500
	ADNERF			- 2,500
	High Gain Optical Transceiver on a Chip			- 2,000
	Stand-off Detection and Identification			- 3,000
	Deep Ultraviolet Avalanche Photon Detectors			- 3,000
	WiFi-EYEPOD			- 6,000
	Electronic Miniaturization			+ 3,500

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Enabling Ubiquitous Computing through Nanoscale Ultra-Low Power Electronics			+ 1,000
	Mil-Tech Extension Technology Transition			+ 2,500
42	Advanced Concept Technology Demonstrations	158,334	156,334	- 2,000
	Reduction to New Starts			- 10,000
	Crossed-Field Radiation Technology (CFRT)			+ 4,000
	Masking Shunt			+ 2,000
	Spartan Advanced Composite Technology			+ 2,000
43	High Performance Computing Modernization Program	175,313	207,213	+ 31,900
	Arctic Regional Supercomputer			+ 5,500
	High Performance Computational Design of Novel Materials			+ 3,400
	MHPCC			+ 5,000
	Next Generation Networking Electronic Medical Records Project			+ 9,000
	Northern Tier Network			+ 5,000
	Secure Skies Project			+ 2,000
	Simulation Center HPC Upgrade			+ 2,000
44	Command, Control and Communications Systems	232,489	222,920	- 9,569
	PANDA			- 5,000
	XG			- 2,869
	WNaN			- 1,700
45	Land Warfare Technology	48,975	37,925	- 11,050
	HYFORM			- 6,000
	FCS Supporting Technologies			- 5,050
47	Network-Centric Warfare Technology	174,276	151,042	- 23,234
	Network Command			- 5,216
	PUCS			- 2,665
	Confirmatory Hunter Killer System			- 4,981
	Network Centric Logistics			- 6,972
	FOX			- 3,400
48	Sensor Technology	205,519	186,466	- 19,053
	SEER			- 3,000
	Super-Resolution Vision System			- 4,053
	Augmented Aerial Sentry			- 7,000
	Bipedal Detection			- 5,000
49	Guidance Technology	157,367	133,867	- 23,500
	Execution Adjustment			- 23,500
51	Software Engineering Institute	26,594	29,594	+ 3,000
	Advanced Lithography—Thin Film Masks for Lithography			+ 3,000
53	Quick Reaction Special Projects	107,782	108,782	+ 1,000
	Unmanned Aerial Vehicles			+ 1,000
54	Joint Experimentation	115,684	108,284	- 7,400
	Duplicative Efforts			- 15,400
	Modeling and Simulation			+ 8,000
56	Test & Evaluation Science & Technology	39,939	44,939	+ 5,000
	National Unmanned Systems Experimentation Environment			+ 5,000
57	Technology Link	6,822	11,422	+ 4,600
	P343—non DOD Mission			- 3,400
	DOD Springboard			+ 8,000
59	Special Operations Advanced Technology Development	80,402	50,421	- 29,981
	Advanced Tactical Laser			- 40,000
	PSYOP Mod—Unjustified Program			- 5,981
	Fuel Cells for Special Operations Applications			+ 2,400
	Mobile Electrical Power Utilizing Energy Harvesting			+ 1,000
	Shock Mitigating Suspended Seat for NSW 11m RIB			+ 2,000
	Snapshot Synthetic Aperture Radar			+ 3,600
	Special Operations Portable Power Source Program			+ 5,000
	Tagging, Tracking, and Locating System for High Value Targets			+ 2,000
60	Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	33,890	37,890	+ 4,000
	Integrated High Activity Response System (INHARS)			+ 4,000
61	Physical Security Equipment		2,000	+ 2,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Intelligent Decision Exploration			+ 2,000
63	Joint Robotics Program	12,210	14,210	+ 2,000
	Robotic Assisted Convoy Operations			+ 2,000
64	Advanced Sensor Applications Program	18,820	19,820	+ 1,000
	Total Force Education Initiative			+ 1,000
67	Ballistic Missile Defense Terminal Defense Segment	1,038,310	1,111,310	+ 73,000
	Arrow Co-production			+ 50,000
	Arrow SRBMD			+ 23,000
68	Ballistic Missile Defense Midcourse Defense Segment	2,876,972	3,103,972	+ 227,000
	Test Program Enhancement and Operations Support			+ 225,000
	Kauai Test Facility			[4,000]
	Range Mission Tool			+ 1,000
	Sensor Data Fusion and Communications			+ 1,000
70	Chemical and Biological Defense Program	73,111	76,111	+ 3,000
	CBNEWS Execution Delays			- 2,000
	Next Generation M291			+ 1,000
	Oral Anthrax/Plague Vaccine			+ 4,000
71	Ballistic Missile Defense Sensors	514,510	518,510	+ 4,000
	Airborne Infrared Surveillance System (AIRS)			+ 4,000
72	Ballistic Missile Defense System Interceptor	405,508	205,508	- 200,000
	KEI Interceptor Development			- 120,000
	KEI Launcher Development			- 7,000
	KEI System Integration and Test			- 22,000
	KEI Support			- 20,000
	KEI Engineering			- 28,000
	Program Wide Support			- 3,000
73	Ballistic Missile Defense Test & Targets	591,911	597,911	+ 6,000
	Optical Sensors for PMRF (SHOTS)			+ 4,000
	Real-Time Multi Frame Blind Deconvolution			+ 2,000
74	Ballistic Missile Defense Products	506,840	500,840	- 6,000
	Hercules			- 5,000
	Ballistic Missile Defense C2BMC			- 20,000
	Ground Based Studies of Rocket Plume Chemistry			+ 4,000
	High Fidelity Missile Defense Modeling and Simulation (JNIC)			+ 15,000
75	Ballistic Missile Defense Systems Core	473,077	428,077	- 45,000
	Program Growth			- 45,000
76	Special Programs—MDA	374,532	354,532	- 20,000
	Program Growth			- 20,000
77	AEGIS BMD	1,031,874	1,140,074	+ 108,200
	AEGIS BMD Signal Processor and Migration of Aegis BMD into OA			+ 20,000
	AEGIS SM-3 Procurement and Development			+ 80,000
	PMRF Upgrades			+ 8,200
78	Space Tracking & Surveillance System	390,585	315,585	- 75,000
	Space Tracking Surveillance System (Block 2012)			- 75,000
88	Joint Electromagnetic Technology (JET) Program	3,672	7,672	+ 4,000
	Delta Mine Training Center (JET)			+ 4,000
90	Nuclear and Conventional Physical Security Equipment RDT&E SDD ...	9,277	12,777	+ 3,500
	Transportable Under Vehicle Inspection System (TUVIS)			+ 3,500
91	Chemical and Biological Defense Program	212,072	210,374	- 1,698
	JBAIDS Increment II Deferral			- 7,198
	ParallaVax Rapid Vaccine Testing Technology			+ 2,500
	Rapid Identification of Biological Warfare Agents			+ 3,000
101	Business Transformation Agency R&D Activities	140,245	160,245	+ 20,000
	DBSE AoA delays			- 20,000
	DIMHRS—Transfer from OMDW, Line 90			+ 30,000
	DIMHRS			+ 10,000
103	Defense Acquisition Executive (DAE) Pilot Program	6,015	1,000	- 5,015
	Duplicative Efforts			- 5,015
105	Information Systems Security Program		2,000	+ 2,000
	Research on Secure Telecommunication Networks			+ 2,000
107	Joint Command and Control Program (JC2)	47,031	24,031	- 23,000
	MS B Delays			- 25,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	Net-Centric Capabilities Pilot (NCCP) Program			+ 2,000
112	Training Transformation (T2)	72,897	72,897	.....
	Unexecutable Growth			- 8,000
	Playas Command and Control Network			+ 5,000
	Training Transformation in the Pacific			+ 3,000
117	Central Test and Evaluation Investment Development (CTEIP)	130,290	138,290	+ 8,000
	Pacific Region Interoperability Test and Evaluation Capability			+ 4,000
	UAV Systems and Operations Validation Program			+ 3,000
	Unmanned Systems Testbed Project/Pathfinder Demo			+ 1,000
120	Technical Studies, Support and Analysis	30,339	35,339	+ 5,000
	Transfer to OSD/ATL from RDN, PE0604327N only for GS Study			+ 5,000
122	USD(A&T)—Critical Technology Support	2,029	4,029	+ 2,000
	Military Capitalize Critical Technologies Program—Transfer from OMDW, Line 260			+ 2,000
128	Classified Program USD(P)		98,000	+ 98,000
	Classified Adjustment			+ 98,000
131	Support to Networks and Information Integration	10,990	16,990	+ 6,000
	Pacific Disaster Center			+ 6,000
133	Chemical and Biological Defense Program	80,134	84,134	+ 4,000
	Vacuum Sampling Pathogen Collection and Concentration			+ 4,000
139	Defense Technology Analysis	5,577	8,577	+ 3,000
	Commodity Management Systems Consolidation Program			+ 3,000
140	Force Transformation Directorate	20,404	23,904	+ 3,500
	Reconnaissance Payloads for Operationally Responsive Spacecraft			+ 3,500
144	Management HQ—R&D	50,951	45,951	- 5,000
	Management Headquarters			- 5,000
154	Partnership for Peace (PfP) Information Management System	1,521		- 1,521
	Execution Delays			- 1,521
156	Joint Integration and Interoperability	66,906	51,906	- 15,000
	Unjustified Growth			- 15,000
169	Long-Haul Communications—DCS	1,523	10,023	+ 8,500
	DISN Core Enhancements at STRATCOM			+ 8,500
183	Special Applications for Contingencies	11,302	6,302	- 5,000
	Execution Delays			- 5,000
207	Industrial Preparedness	18,748	32,348	+ 13,600
	Copper-Based Casting Technology			+ 2,000
	Lithium Battery Systems for Asset Tracking			+ 3,000
	Next Generation Manufacturing Technologies Initiative			+ 6,000
	Northwest Manufacturing Initiative			+ 2,600
212	Special Operations Aviation Systems Advanced Development	83,704	73,704	- 10,000
	CAAP Program Restructure			- 5,000
	Sof K-Band TF/TA Radar program delays			- 5,000
213	Special Operations Tactical Systems Development	45,241	51,713	+ 6,472
	MBMMR Program Cancellation			- 5,928
	Arctic Warfare Mountaineering Boot			+ 1,000
	Covert WPM Waveform Modules			+ 1,000
	Holographic Close Combat Optic			+ 1,000
	Integrated Warfighter Information System II			+ 2,100
	Over the Horizon Augmented Reconnaissance (ROAR)			+ 2,000
	Special Operations Combat Assault Rifle (SCAR)			+ 2,400
	Special Operations Tactical Boot Suite Development			+ 1,500
	Weapons Shot Counter			+ 1,400
214	Special Operations Intelligence Systems Development	29,011	49,611	+ 20,600
	Advanced, Long Endurance Unattended Ground Sensor Technology			+ 2,100
	Biometric Signatures Research			+ 3,000
	Joint METOC—SOCM Airdropped Sensors			+ 2,500
	JTWS Variants for Network-Centric Advanced Platforms			+ 5,000
	Special Operations—Application Specific Integrated Circuit Development			+ 5,000

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
	University Multi-Spectral Laboratory and Analytical Services Center Program			+ 3,000
215	SOF Operational Enhancements	99,010	108,810	+ 9,800
	3-D Stabilized Facial Recognition Imaging Technology			+ 2,000
	Advanced Tactical Electronic Countermeasures			+ 1,500
	B-Band Covert Night Vision System LRIP			+ 2,000
	Operational Enhancements to Low Profile NVGs (AN/PVS-21 LP/ NVG)			+ 1,000
	Special Operations Tactical Mobility Simulator			+ 1,000
	SOCOM Counterterrorism Operational Enhancements in C4ISR ...			+ 2,300
217	Special Operations Aircraft Defensive Systems	7,850	4,850	- 3,000
	LBJ—Funding Excess to Need			- 3,000
999	Classified Programs	3,312,490	3,142,066	- 170,424

Transformational Medical Technology Initiative [TMTI].—The Committee recommends \$100,000,000 for TMTI, a reduction of \$125,100,000 to the request. The Committee notes that its recommendation provides an increase of \$25,400,000 over amounts made available for TMTI in fiscal year 2006, the program's year of inception.

The Committee believes it is premature to seek a funding increase of over 200 percent, as the fiscal year 2007 budget request does. Given the TMTI's novel approach to combatting the bio-defense threat, the Committee furthermore believes that performance metrics and benchmarks should be included in the program, and execution experience gathered before a program expansion can be considered.

The Committee directs the Special Assistant for Chemical and Biological Defense to provide to the congressional defense committees with the budget submission for fiscal year 2008 a list of programs funded under TMTI in fiscal years 2006 and 2007, performance metrics and benchmarks, and the results of the programs' quarterly reviews.

Advanced Concept Technology Demonstrations [ACTDs].—The ACTD program was designed to rapidly field emergent mature technologies to joint warfighters. To more accurately address the Combatant Commanders' requirements and joint needs, and to increase technology transitions to the Services, the Joint Capability Technology Demonstration [JCTD] program was established in fiscal year 2006. The goal is to ultimately support more programs through the JCTD program and to reduce the ACTD program accordingly. Therefore, the Committee was surprised to see that the ACTD funding profile increases across the Future Years Defense Plan, while the JCTD funding profile remains constant. Additionally, almost one-half of new start projects planned for fiscal year 2007 as either ACTDs or JCTDs are budgeted for in the ACTD program. Since ACTD programs don't reach their final demonstration until 3 to 4 years after initiation, the Committee believes that initiating new start projects as ACTDs at this point undermines the transition process to the JCTD program. Therefore, the Committee recommends a reduction of \$10,000,000 to ACTD new start projects.

Defense Integrated Military Human Resources System [DIMHRS].—The Committee directs the Secretary of Defense and the individual services to maintain DIMHRS application development and implementation and DIMHRS performance development effort and emergent requirement efforts at the Space and Naval Warfare [SPAWAR] Systems Center [SSC] in New Orleans.

New Starts in the Year of Execution.—The fiscal year 2007 budget request includes no less than \$229,428,000 for programs that will be selected and initiated in the year of execution, including \$25,000,000 for Joint Capability Technology Demonstrations [JCTDs], \$20,180,000 for Advanced Concept Technology Demonstrations [ACTDs], \$28,728,000 for the Quick Reaction Fund, \$50,326,000 for the Rapid Reaction Fund, \$8,618,000 for the Technology Transition Initiative, \$21,493,000 for Foreign Comparative Testing, \$65,768,000 for Combatting Terrorism Technology Support, and \$9,315,000 for the Defense Acquisition Challenge.

The Committee remains supportive of the Department's ability to conduct rapid research projects in support of urgent warfighter requirements, but—as previously expressed in Senate Report 108–284, accompanying the Department of Defense Appropriations bill, 2005, and in Senate Report 109–141, accompanying the Department of Defense Appropriations bill, 2006—reminds the Department that timely congressional notification of the execution of these funds for new start programs remains critical to the Committee's ability to conduct appropriate oversight. Therefore, the Committee directs the Department to submit to the congressional defense committees no later than 30 days after the end of each fiscal quarter a written report detailing the obligation and expenditure of funds provided for the above-mentioned programs by project, to include schedules and funding requirements for each initiated project. Furthermore, the Committee directs the Department to submit with the fiscal year 2008 budget submission a list of programs funded under these initiatives in fiscal years 2005 and 2006 that have transitioned to the Services as programs of record.

MISSILE DEFENSE PROGRAMS

The Committee recommends a total of \$9,371,710,000 for the Missile Defense Agency [MDA]. The Committee notes that this amount is \$1,689,742,000 above the fiscal year 2006 appropriation.

The Committee recognizes MDA's concern over expanding and evolving threats. However, the Committee is concerned that MDA is investing too much funding in future systems and technology in advance of adequate testing and fielding of currently available technology. Therefore, the Committee's budget recommendations reflect a continuing emphasis on improving, testing and fielding the current missile defense components, in particular: Ground Based Midcourse Defense, AEGIS Ballistic Missile Defense, Theater Based High Altitude Area Defense and Airborne Laser.

The Committee commends MDA for successful testing of both the Theater High-Altitude Area Defense and AEGIS systems over the fiscal year 2006 period. In addition, the Committee was encouraged by MDA's ability to quickly transition between development and test to provide immediate operational capability during the recent North Korean missile launches. The Committee understands that

periods of immediate operational need will continue to arise in parallel with the development efforts; and therefore supports MDA's efforts to expand concurrent test and operations. To address these issues, the Committee provides an increase of \$225,000,000 for additional test infrastructure enhancements, operational support, and interceptors.

High Altitude Airship.—The Committee recommendation reduces funding for the High Altitude Airship and instructs MDA to focus on its immediate mission of testing and fielding an interim missile defense capability.

Kinetic Energy Interceptor [KEI].—The Committee is concerned about the affordability of KEI and investing heavily in a new technology when the core missile defense programs have yet to be fully tested and fielded. Therefore, the Committee reduces funding for KEI by \$200,000,000, consistent with S. 2677, the Senate passed National Defense Authorization Act for Fiscal Year 2007.

Space Tracking and Surveillance System.—The Committee supports efforts to collect tracking and characterization data from the two development and demonstration satellites. The Committee believes that MDA lacks critical knowledge that can be derived from the existing demonstration satellites, and therefore the decision to fund the full constellation is premature.

OPERATIONAL TEST AND EVALUATION, DEFENSE

Appropriations, 2006	\$166,786,000
Budget estimate, 2007	181,520,000
House allowance	181,520,000
Committee recommendation	187,520,000

The Committee recommends an appropriation of \$187,520,000. This is \$6,000,000 above the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

	Item	2007 budget estimate	House allowance	Committee recommendation	Change from—	
					Budget estimate	House allowance
	OPERATIONAL TEST & EVAL, DEFENSE					
	RD&E MANAGEMENT SUPPORT:					
4	OPERATIONAL TEST AND EVALUATION	50,161	50,161	56,161	+ 6,000	+ 6,000
6	LIVE FIRE TESTING	11,245	11,245	11,245		
8	OPERATIONAL TEST ACTIVITIES AND ANALYSES	120,114	120,114	120,114		
	TOTAL, RD&E MANAGEMENT SUPPORT	181,520	181,520	187,520	+ 6,000	+ 6,000
	TOTAL, OPERATIONAL TEST & EVAL, DEFENSE	181,520	181,520	187,520	+ 6,000	+ 6,000

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2007 budget estimate	Committee recommendation	Change from budget estimate
4	OPERATIONAL TEST AND EVALUATION	50,161	56,161	+ 6,000
	Holloman High Speed Test Track .....	.....	.....	+ 6,000