the M109 self-propelled howitzer, will have to be maintained and sustained for the foreseeable future in those Army and Army National Guard heavy brigade combat teams which will not transition to the FCS structure. In that regard the conferees support the Army's M109 Paladin Integrated Management upgrade program.

TITLE II—RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

BUDGET ITEMS

Research, Development, Test, and Evaluation overview

The budget request included $75,117.2 million in Research, Development, Test and Evaluation for the Department of Defense.

The House bill would authorize $73,476.3 million.

The Senate amendment would authorize $74,718.1 million.

The conferees agree to authorize $73,727.5 million.

Unless noted explicitly in the statement of managers, all changes are made without prejudice.

NATIONAL DEFENSE AUTHORIZATION FOR FISCAL YEAR 2007

(Dollars in Thousands)

Title II -- RESEARCH, DEVELOPMENT, TEST & EVALUATION	Authorization Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
Research, Development, Test & Evaluation, Army	10,589,604	10,057,498	11,327,945	250,788	10,840,392
Research, Development, Test & Evaluation, Navy	17,075,536	17,323,601	16,296,395	-94,804	16,980,732
Research, Development, Test & Evaluation, Air Force	26,711,940	25,738,960	25,581,989	-1,019,419	25,692,521
Research, Development, Test & Evaluation, Defense-wide	20,559,850	20,176,000	21,331,475	-526,214	20,033,636
Operational Test & Evaluation	180,264	180,264	180,264	0	180,264
TOTAL RDT&E	75,117,194	73,476,323	74,718,068	-1,389,649	73,727,545

ARMY

Research, Development, Test, and Evaluation, Army overview

The budget request included $10,589.6 million in Research, Development, Test, and Evaluation, Army for the Department of Defense.

The House bill would authorize $10,057.5 million.

The Senate amendment would authorize $11,328.0 million.

The conferees agree to authorize $10,840.4 million.

Unless noted explicitly in the statement of managers, all changes are made without prejudice.

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
			RESEARCH, DEVELOPMENT, TEST & EVALUATION, ARMY					
2040	0601101A	1	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	19,266	19,266	19,266		19,266
2040	0601102A	2	DEFENSE RESEARCH SCIENCES	137,676	144,389	145,176	8,800	146,476
			Respiratory infections research			[2,000]	[1,600]	
			Document exploitation systems			[3,000]	[1,000]	
			Organic semiconductor modeling & simulation research			[1,000]	[1,000]	
			Activated nanostructures for deicing		[2,000]	[1,500]	[1,200]	
			Center of Excellence in industrial metrology		[2,700]		[1,600]	
			No justification (F-22)		[-545]			
			No justification (H52)		[-942]			
			CBR functionally integrated reactive surface technologies		[3,500]		[2,400]	
2040	0601103A	3	UNIVERSITY RESEARCH INITIATIVES	64,843	66,443	73,843	9,600	74,443
			Program increase			[9,000]	[8,000]	
			National Trauma Institute		[1,600]		[1,600]	
2040	0601104A	4	UNIVERSITY AND INDUSTRY RESEARCH CENTERS	84,034	91,434	102,234	13,320	97,354
			Information assurance research			[1,500]	[800]	
			Nanoscale biosensor research			[2,500]	[2,500]	
			Low temperature vehicle performance research			[2,000]	[800]	
			Automotive research			[3,000]	[2,000]	
			Integrated sensing & communications systems			[2,000]	[800]	
			Urban simulation & training research			[1,400]	[1,120]	
			Network security research			[2,000]	[1,600]	
			Machine interface research			[1,500]		
			Transparent nanocomposite armor research			[300]	[300]	
			Nanocomposite materials research			[2,000]	[2,000]	
			Electron microprobe facility		[1,400]		[1,400]	
			Vehicle modeling for reduced fuel usage		[6,000]			

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0602105A	5	MATERIALS TECHNOLOGY	18,614	29,114	31,614	12,800	31,414
			Nanosensor manufacturing research			[2,000]	[1,600]	
			Ballistic materials for Future Combat Systems			[2,000]	[2,000]	
			IED protection materials research			[4,000]	[4,000]	
			Advanced composite materials research			[3,000]	[1,600]	
			Soldier torso armor systems			[2,000]	[2,000]	
			Advanced lightweight armor materials		[6,000]			
			Ultra lightweight metallic armor		[4,500]		[1,600]	
2040	0602120A	6	SENSORS AND ELECTRONIC SURVIVABILITY	39,826	49,826	48,826	8,400	48,226
			Advanced microelectronics manufacturing			[2,000]	[2,000]	
			Operationally responsive space research			[5,000]		
			Integrated remote sensing technologies			[2,000]	[2,000]	
			Network enabled combat ID		[5,000]		[2,400]	
			Electromagnetic geolocation		[2,000]		[1,000]	
			Advanced detection of explosives		[3,000]		[1,000]	
2040	0602122A	7	TRACTOR HIP	4,367	4,367	4,367		4,367
2040	0602211A	8	AVIATION TECHNOLOGY	42,567	42,927	42,567		42,567
			Automated helicopter load acquisition system		[360]			
2040	0602270A	9	ELECTRONIC WARFARE TECHNOLOGY	16,411	24,411	16,411	6,200	22,611
			Silver Fox and Manta UAS		[5,000]		[3,200]	
			Knowledge integration and management		[3,000]		[3,000]	
2040	0602303A	10	MISSILE TECHNOLOGY	53,038	53,038	55,038	1,000	54,038
			Materials for munitions protection research			[2,000]	[1,000]	
2040	0602307A	11	ADVANCED WEAPONS TECHNOLOGY	19,342	19,342	19,342		19,342
2040	0602308A	12	ADVANCED CONCEPTS AND SIMULATION	16,654	16,654	20,654	4,000	20,654
			Photonics research for sniper detection			[4,000]	[4,000]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0602601A	13	COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY	53,342	85,142	60,342	13,600	66,942
			Medium/heavy duty fuel cell vehicle demonstration			[3,000]	[3,000]	
			Transparent armor research			[2,000]	[800]	
			Military fuels research			[2,000]	[1,600]	
			Digital engine, hydraulic valve actuation		[3,900]		[800]	
			Tactical metal fabrication		[6,300]		[2,400]	
			National Institute for Legged Mobility		[2,000]			
			Nanofluids for military ground vehicles		[2,500]			
			Light utility vehicle		[4,000]		[1,000]	
			Ground combat systems open architecture electronic enhancement		[11,100]		[2,800]	
			Teamline secure mobile		[2,000]		[1,200]	
2040	0602618A	14	BALLISTICS TECHNOLOGY	55,014	56,664	55,014	800	55,814
			DP-5X		[1,650]		[800]	
2040	0602622A	15	CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLO(	2,235	2,235	2,235		2,235
2040	0602623A	16	JOINT SERVICE SMALL ARMS PROGRAM	7,008	7,008	9,008		7,008
			Recoil mitigation technologies			[2,000]		
2040	0602624A	17	WEAPONS AND MUNITIONS TECHNOLOGY	40,469	53,369	43,469	4,800	45,269
			UGV weaponization technologies			[3,000]	[1,600]	
			Gun based RAM defense		[6,000]			
			Precision munition onboard recorder		[1,900]			
			Microelectronics supporting flexible display		[2,000]		[1,600]	
			Hospital emergency planning and integration		[3,000]		[1,600]	
2040	0602705A	18	ELECTRONICS AND ELECTRONIC DEVICES	43,391	43,391	49,391	4,000	47,391
			High-frequency, high-power electronic & optoelectronic devices			[3,000]	[2,400]	
			Advanced rechargeable batteries			[3,000]	[1,600]	
2040	0602709A	19	NIGHT VISION TECHNOLOGY	24,391	29,041	24,391	2,400	26,791
			Microdisplay development		[4,650]		[2,400]	
2040	0602712A	20	COUNTERMINE SYSTEMS	21,795	21,795	26,795	3,200	24,995
			Standoff IED detection technologies			[5,000]	[3,200]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0602716A	21	HUMAN FACTORS ENGINEERING TECHNOLOGY	17,426	42,426	17,426	21,000	38,426
			LWI training-based collaborative research		[25,000]		[21,000]	
2040	0602720A	22	ENVIRONMENTAL QUALITY TECHNOLOGY	15,809	25,809	15,809	1,200	17,009
			Combined bomb unit decasing and disposal		[3,800]			
			Propelling agent		[1,200]		[1,200]	
			Integrated environment control system/Cryogenic agent removal system		[5,000]			
2040	0602782A	23	COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY	22,215	41,465	22,215	7,800	30,015
			Universal communication bridge		[3,500]			
			Portable flexible displays		[5,000]		[1,200]	
			C4ISR Integrated Digital Environment Service Model (IDESM)		[2,000]		[2,000]	
			Soldier sensor computing		[2,000]			
			Integrated lightweight electronics shelter		[1,750]		[1,400]	
			Advanced 3D locator		[5,000]		[3,200]	
2040	0602783A	24	COMPUTER AND SOFTWARE TECHNOLOGY	5,368	6,368	5,368	1,000	6,368
			Bioinspired security infrastructure		[1,000]		[1,000]	
2040	0602784A	25	MILITARY ENGINEERING TECHNOLOGY	51,120	51,120	51,120		51,120
2040	0602785A	26	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	16,208	16,208	16,208		16,208
2040	0602786A	27	WARFIGHTER TECHNOLOGY	23,083	30,753	28,083	6,600	29,683
			Ballistic materials for force protection			[5,000]	[4,000]	
			Chem-bio protective hangars		[6,000]		[1,600]	
			Chem-bio lightweight shelter		[250]			
			Active and smart packaging for combat feeding		[1,420]		[1,000]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0602787A	28	MEDICAL TECHNOLOGY	76,544	99,120	83,044	12,100	88,644
			Advanced fibrin dressings			[2,000]	[2,000]	
			Battlefield head injury diagnostic tools			[1,000]		
			Biomechanics research			[2,000]	[2,000]	
			Synthetic *malaria vaccine*		[4,000]		[2,400]	
			Bioengineering for soldier survivability		[3,000]	[1,500]	[1,600]	
			Modeling warfighter fatigue		[4,000]			
			Virtual reality surgical simulator		[1,000]			
			Biofoam protein hydrogel		[5,800]		[2,000]	
			Epigenetics research		[3,000]		[1,600]	
			Oxygen diffusion dressings for accelerated healing		[1,000]		[500]	
			Biomedical neuropsychiatric and PTSD new treatment initiative		[776]			
2040	0603001A	29	WARFIGHTER ADVANCED TECHNOLOGY	47,065	51,065	49,065	3,200	50,265
			AGAS technology development			[2,000]	[1,600]	
			Future combat rations - processing and packaging		[4,000]		[1,600]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0603002A	30	MEDICAL ADVANCED TECHNOLOGY	53,274	102,174	72,274	39,200	92,474
			Lower limb prosthetics research			[3,000]	[3,000]	
			Combat wound initiative			[2,000]	[2,000]	
			Electronic vital signs monitoring systems			[2,000]	[1,600]	
			Robotic telesurgery research			[2,000]	[2,000]	
			Blast trauma detection research			[2,000]	[2,000]	
			Dengue infections research			[5,000]	[3,000]	
			Tissue regeneration research			[3,000]	[2,400]	
			Gulf War Illness research (S.AMDT #3082)			[15,000]	[10,000]	
			Reduction (S.AMDT #3082)			[-15,000]		
			Human organ and tissue preservation		[3,000]			
			Epidemiological tracking initiative		[5,000]			
			Advanced proteomics		[4,000]		[1,200]	
			Advanced medical technology - University of Texas		[3,000]			
			Combined injury consortium		[5,000]			
			Freeze dried plasma		[4,000]			
			Cellular response to infections and inflammatory diseases		[2,000]			
			National functional genomics center		[10,000]		[8,400]	
			Nightengale wireless personal status monitor		[2,500]			
			Personal intelligent medical assistant		[2,500]			
			Tracking soldier health with advanced implants		[2,500]		[1,600]	
			Malaria vaccine development		[2,000]		[2,000]	
			Electronic health records		[2,400]			
			DOD/VA healthcare information interoperability demonstration		[1,000]			

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0603003A	31	AVIATION ADVANCED TECHNOLOGY	53,890	98,290	58,890	15,240	69,130
			UAV munitions technologies			[3,000]	[2,240]	
			UAV payload delivery systems			[2,000]	[1,600]	
			Polymer matrix for drive systems		[8,000]		[2,400]	
			Nanocrystal line diamond rotorblade leading edge protection		[2,900]			
			Universal control program		[8,000]		[3,000]	
			Laser peening for rotorcraft transmissions - advanced helo performance		[3,000]			
			NVG compatible electrostatically conductive windscreen laminates for advanced perfor		[2,700]		[1,200]	
			Power dense rotorcraft transmission		[1,000]		[800]	
			Technology for aging aircraft depot support		[3,800]			
			Vectored thrust ducted propeller compound helo		[9,500]		[4,000]	
			Aviation technology for legacy systems		[5,500]			
2040	0603004A	32	WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY	59,389	86,239	60,389	4,250	63,639
			Cannon recoil reduction system			[1,000]	[800]	
			Micro-seeker for small steerable projectiles		[5,000]		[1,600]	
			Electromagnetic gun initiative		[850]		[850]	
			Affordable net shaped MER titanium production		[4,500]			
			Precision aspheric optics		[6,000]			
			Mobile detection assessment response system		[5,500]			
			Dual use radiological and chemical detectors		[3,000]			
			Knowledge driven manufacturing		[2,000]		[1,000]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0603005A	33	COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLO(	131,436	161,823	186,436	45,340	176,776
			Composite armor cab development			[3,000]	[3,000]	
			Antiballistic windshield armor		[4,500]	[4,000]	[4,000]	
			Hostile fire detection systems			[3,000]	[3,000]	
			Unmanned ground vehicle initiative			[12,000]	[12,000]	
			Military hybrid engine development program			[10,000]	[8,000]	
			Solid hydrogen storage vehicle research			[4,000]	[2,400]	
			Composite ceramic vehicle armor program			[1,000]		
			Fuel cell cost reduction research			[3,000]	[1,600]	
			Solid oxide fuel cell manufacturing research			[1,500]		
			Vehicle design optimization tools			[1,500]	[1,500]	
			Dynamometer facility upgrade		[4,300]	[3,000]		
			Fastening & joining research			[1,500]	[800]	
			Tactical vehicle APS research			[7,500]	[3,040]	
			Wheeled vehicle electric drive maturation		[6,000]			
			Tactical wheeled vehicle armor structrures survivability and performance		[10,000]		[4,000]	
			Diminishing manufacturing sources and material support		[5,000]		[2,000]	
			Shot spotter individual protection system		[6,000]			
			Fuel cell-based auxillary power		[3,000]			
			No justification (DF7)		[-3,076]			
			No justification (DC66)		[-5,337]			
2040	0603006A	34	COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHN	12,255	12,255	12,255		12,255
2040	0603007A	35	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHN(	6,783	6,783	6,783		6,783
2040	0603008A	36	ELECTRONIC WARFARE ADVANCED TECHNOLOGY	49,199	65,899	49,199	7,500	56,699
			Advanced wireless technologies		[500]		[500]	
			Applied communications and information networking		[7,000]		[4,000]	
			Portable mobile emergency broadband systems		[3,000]		[3,000]	
			Mission planning tool set		[2,500]			
			JEM range extension		[3,700]			

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0603009A	37	TRACTOR HIKE	12,633	12,633	12,633		12,633
2040	0603015A	38	NEXT GENERATION TRAINING & SIMULATION SYSTEMS	18,723	29,923	22,723	2,800	21,523
			Virtual environment for urban warfare		[4,000]		[800]	
			Joint fires and effects training system		[7,200]	[4,000]	[2,000]	
2040	0603020A	39	TRACTOR ROSE	6,526	6,526	6,526		6,526
2040	0603100A	40	IED DEFEAT TECHNOLOGY DEVELOPMENT		8,000		2,400	2,400
			Center for pulsed power and power electronics		[8,000]		[2,400]	
2040	0603103A	41	EXPLOSIVES DEMILITARIZATION TECHNOLOGY	10,349	13,749	10,349		10,349
			Demilitarization resource recovery and recycle program - Tooele Army Depot		[3,400]			
2040	0603105A	42	MILITARY HIV RESEARCH	6,998	6,998	6,998		6,998
2040	0603125A	43	COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT	13,061	13,061	13,061		13,061
			Army Venture Capital Fund Demo		[10,000]			
			Army Venture Capital Fund Demo		[-10,000]			
2040	0603238A	44	GLOBAL SURVEILLANCE/AIR DEFENSE/PRECISION STRIKE TE					
2040	0603270A	45	ELECTRONIC WARFARE TECHNOLOGY	17,419	17,419	17,419		17,419
2040	0603313A	46	MISSILE AND ROCKET ADVANCED TECHNOLOGY	60,353	64,853	60,353	1,600	61,953
			Smart energetic architecture for missile systems		[4,500]		[1,600]	
2040	0603322A	47	TRACTOR CAGE	18,448	18,448	18,448		18,448
2040	0603606A	48	LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOG	25,315	25,315	25,315		25,315
2040	0603607A	49	JOINT SERVICE SMALL ARMS PROGRAM	8,097	13,097	8,097		8,097
			Lightweight small arms technology		[5,000]			
2040	0603710A	50	NIGHT VISION ADVANCED TECHNOLOGY	35,892	55,295	45,892	6,800	42,692
			Intelligence, surveillance & detection sensor research			[2,500]		
			FCS short range electro optic sensor research			[7,500]	[3,200]	
			Cable warning obstacle avoidance system		[3,000]		[1,200]	
			Hyperspectral sensors for force protection		[7,000]		[1,600]	
			Buster backpack UAV		[5,000]			
			Personal miniature thermal viewer		[4,800]		[800]	
			No justification - DC65		[-397]			

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0603728A	51	ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS	14,982	14,982	14,982		14,982
2040	0603734A	52	MILITARY ENGINEERING ADVANCED TECHNOLOGY	6,837	16,437	12,837	4,800	11,637
			Direct methanol fuel cell development			[3,000]	[2,000]	
			Fuel cells for continuity of operations			[3,000]		
			Synthetic automotive virtual environment		[3,600]		[1,600]	
			Gas engine driven air conditioning demonstration		[3,000]		[1,200]	
			Buckeye UAS		[3,000]			
2040	0603772A	53	ADVANCED TACTICAL COMPUTER SCIENCE AND SENSOR TE	67,011	79,011	73,011	4,800	71,811
			Advanced radar technologies			[3,000]	[2,000]	
			Phraselator improvement program			[3,000]		
			Digital array radar		[4,000]			
			Advanced radar transceiver IC		[5,000]		[800]	
			Software lifecycle affordability		[3,000]		[2,000]	
2040	0603024A	54	UNIQUE ITEM IDENTIFICATION (UID)	668		668		668
			No Justification		[-668]			
2040	0603305A	55	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (NON SPAC	14,389	35,389	16,389	15,600	29,989
			Radiation space hardening		[5,000]	[2,000]	[2,000]	
			Advanced hypersonic weapon		[7,000]		[7,000]	
			Next generation interceptors		[7,000]		[5,600]	
			Integrated composite mounting hardware		[2,000]		[1,000]	
2040	0603308A	56	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE)	17,421	17,421	17,421		17,421
2040	0603327A	57	AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING	176,142	185,142	176,142	-9,200	166,942
			Area security and defense systems - Center for defense systems research		[4,000]			
			Advanced extended range attack missile		[5,000]		[800]	
			S32 unjustified growth				[-10,000]	
2040	0603460A	58	JOINT AIR-TO-GROUND MISSILE (JAGM)	53,500	53,500	53,500		53,500
2040	0603619A	59	LANDMINE WARFARE AND BARRIER - ADV DEV	24,737	31,737	24,737	1,600	26,337
			Enhanced holographic imager		[7,000]		[1,600]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0603627A	60	SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV	19,449	19,449	19,449	-10,000	9,449
			Excessive program delays				[-10,000]	
2040	0603639A	61	TANK AND MEDIUM CALIBER AMMUNITION	44,578	44,578	44,578		44,578
2040	0603653A	62	ADVANCED TANK ARMAMENT SYSTEM (ATAS)	142,486	142,486	182,486		142,486
			Stryker active protection system integration			[40,000]		
2040	0603747A	63	SOLDIER SUPPORT AND SURVIVABILITY	4,787	3,795	4,787		4,787
			No Justification (C08)		[-992]			
2040	0603766A	64	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - ADV DEV	[ ]	[ ]	[ ]		[ ]
2040	0603774A	65	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	3,454	3,454	3,454		3,454
2040	0603779A	66	ENVIRONMENTAL QUALITY TECHNOLOGY	6,149	18,149	14,149	7,100	13,249
			Hawaii undersea chemical weapons assessment		[8,000]	[8,000]	[5,500]	
			Vanadium technology program		[4,000]		[1,600]	
2040	0603782A	67	WARFIGHTER INFORMATION NETWORK-TACTICAL	222,296	119,996	322,296	100,000	322,296
			Warfighter Information Network - Tactical			[100,000]	[100,000]	
			Program decrease		[-102,300]			
2040	0603790A	68	NATO RESEARCH AND DEVELOPMENT	4,959	4,959	4,959		4,959
2040	0603801A	69	AVIATION - ADV DEV	6,481	6,481	6,481		6,481
2040	0603804A	70	LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV	27,499	27,499	27,499		27,499
2040	0603805A	71	COMBAT SERVICE SUPPORT CONTROL SYSTEM EVALUATION	19,054	19,054	19,054	-4,000	15,054
			Program growth without acquisition strategy				[-4,000]	
2040	0603807A	72	MEDICAL SYSTEMS - ADV DEV	12,479	14,479	19,979	8,500	20,979
			Future medical shelter systems			[7,500]	[7,500]	
			Leishmaniasis skin test		[2,000]		[1,000]	
2040	0603827A	73	SOLDIER SYSTEMS - ADVANCED DEVELOPMENT	18,178	18,178	23,478	-1,400	16,778
			Nickel boron metal coating technology for crew served weapons			[5,300]		
			S54 40mm reconnaissance cartridge				[-1,400]	
2040	0603850A	74	INTEGRATED BROADCAST SERVICE	[ ]	[ ]	[ ]		[ ]
			IBS			[-10,000]		
2040	0603808A	75	CLASSIFIED PROGRAM	[ ]	[ ]	[ ]		[ ]

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0604201A	76	AIRCRAFT AVIONICS	57,786	57,786	57,786		57,786
2040	0604220A	77	ARMED, DEPLOYABLE OH-58D	82,310	50,010	182,310	100,000	182,310
			Transfer from ARH (APA 3)			[100,000]	[100,000]	
			Excess to requirement		[-32,300]			
2040	0604270A	78	ELECTRONIC WARFARE DEVELOPMENT	55,716	60,941	55,716	1,840	57,556
			Bi-directional English-Iraqi instant language translator		[5,225]		[1,840]	
2040	0604280A	79	JOINT TACTICAL RADIO					
2040	0604321A	80	ALL SOURCE ANALYSIS SYSTEM	[ ]	[ ]	[ ]		[ ]
2040	0604328A	81	TRACTOR CAGE	17,821	17,821	17,821		17,821
2040	0604329A	82	COMMON MISSILE					
2040	0604601A	83	INFANTRY SUPPORT WEAPONS	45,229	52,629	45,229	3,200	48,429
			CROWS Javelin integration		[5,400]		[1,600]	
			Enhanced flame retardant clothing system		[2,000]		[1,600]	
2040	0604604A	84	MEDIUM TACTICAL VEHICLES	1,994	2,794	1,994	800	2,794
			Track over the tire system		[800]		[800]	
2040	0604609A	85	SMOKE, OBSCURANT AND TARGET DEFEATING SYS-SDD	1,347	1,347	1,347		1,347
2040	0604622A	86	FAMILY OF HEAVY TACTICAL VEHICLES	1,947	1,947	6,947	4,800	6,747
			Advanced thermal & oil management controls research			[5,000]	[4,800]	
2040	0604633A	87	AIR TRAFFIC CONTROL	8,956	8,956	8,956		8,956
2040	0604642A	88	LIGHT TACTICAL WHEELED VEHICLES	82,300	82,300	105,300	-43,400	38,900
			Joint light tactical vehicle (JLTV) - transfer from Title XV			[20,000]		
			Army fuel cell non-tactical vehicle propulsion			[3,000]	[1,600]	
			Program delay				[-45,000]	
2040	0604645A	89	ARMORED SYSTEMS MODERNIZATION (ASM)-SDD					
2040	0604646A	90	NON-LINE OF SIGHT LAUNCH SYSTEM	253,410	253,410	253,410		253,410
2040	0604647A	91	NON-LINE OF SIGHT CANNON	137,802	137,802	137,802		137,802
2040	0604660A	92	FCS MANNED GRD VEHICLES & COMMON GRD VEHICLE	696,333	463,033	721,333	-100,300	596,033
			FCS active protection system acceleration			[25,000]		
			Program reduction		[-233,300]		[-100,300]	

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0604661A	93	FCS SYSTEMS OF SYSTEMS ENGR & PROGRAM MGMT	1,589,466	1,023,166	1,589,466	-102,000	1,487,466
			Program reduction		[-566,300]		[-102,000]	
2040	0604662A	94	FCS RECONNAISSANCE (UAV) PLATFORMS	41,164	20,164	41,164		41,164
			Class IV UAV		[-21,000]			
2040	0604663A	95	FCS UNMANNED GROUND VEHICLES	90,667	43,967	180,667		90,667
			FCS armed robotic vehicles			[90,000]		
			Program reduction		[-46,700]			
2040	0604664A	96	FCS UNATTENDED GROUND SENSORS	10,999	10,999	10,999		10,999
2040	0604665A	97	FCS SUSTAINMENT & TRAINING R&D	678,781	678,781	678,781	-27,000	651,781
			Program adjustment				[-27,000]	
2040	0604666A	98	MODULAR BRIGADE ENHANCEMENT	64,796	64,796	64,796		64,796
2040	0604710A	99	NIGHT VISION SYSTEMS - SDD	44,619	44,619	44,619		44,619
2040	0604713A	100	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	2,501	2,501	2,501		2,501
2040	0604715A	101	NON-SYSTEM TRAINING DEVICES - SDD	35,992	35,992	35,992		35,992
2040	0604741A	102	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE - SDI	21,513	21,513	21,513		21,513
2040	0604742A	103	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	31,962	31,962	31,962		31,962
2040	0604746A	104	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	18,025	18,025	18,025	-8,000	10,025
			L59 funding ahead of need				[-8,000]	
2040	0604760A	105	DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD	16,594	18,744	16,594	1,720	18,314
			Joint training integration and evaluation		[2,150]		[1,720]	
2040	0604780A	106	COMBINED ARMS TACTICAL TRAINER (CATT) CORE	37,035	37,035	37,035		37,035
2040	0604783A	107	JOINT NETWORK MANAGEMENT SYSTEM	2,786	2,786	2,786		2,786
2040	0604802A	108	WEAPONS AND MUNITIONS - SDD	55,368	55,368	55,368		55,368
2040	0604804A	109	LOGISTICS AND ENGINEER EQUIPMENT - SDD	45,009	45,009	45,009		45,009
2040	0604805A	110	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD	10,047	10,047	10,047		10,047
2040	0604807A	111	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPM	15,823	18,323	15,823	1,600	17,423
			Ground on-board oxygen generation system		[2,500]		[1,600]	
2040	0604808A	112	LANDMINE WARFARE/BARRIER - SDD	142,315	142,315	142,315	-4,045	138,270
			IMS FCS integration				[-4,045]	

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0604814A	114	ARTILLERY MUNITIONS	63,039	41,939	63,039		63,039
			Transfer funds for additional Excalibur precision guided munition procurement		[-21,100]			
2040	0604817A	115	COMBAT IDENTIFICATION	11,362	11,362	13,362		11,362
			SINCGARS based combat ID research			[2,000]		
2040	0604818A	116	ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTV	99,202	99,202	99,202		99,202
2040	0604820A	117	RADAR DEVELOPMENT	7,067	7,067	7,067		7,067
2040	0604822A	118	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS)	53,559	53,559	112,600	59,041	112,600
			Transfer from OMA, line 432 (S.AMDT 2174)			[29,822]	[29,822]	
			Transfer from OPA, line 107 (S AMDT 2174)			[29,219]	[29,219]	
2040	0604823A	119	FIREFINDER	77,279	77,279	77,279		77,279
2040	0604827A	120	SOLDIER SYSTEMS - WARRIOR DEM/VAL			30,400		
			Continued development of Land Warrior			[30,400]		
2040	0604854A	121	ARTILLERY SYSTEMS	24,221	24,221	24,221		24,221
2040	0604869A	122	PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP)	372,146	372,146	372,146		372,146
2040	0604870A	123	NUCLEAR ARMS CONTROL MONITORING SENSOR NETWORK	7,300	7,300	7,300		7,300
2040	0605013A	124	INFORMATION TECHNOLOGY DEVELOPMENT	103,485	106,985	103,485	2,400	105,885
			Health informatics initiative		[3,500]		[2,400]	
2040	0603808A	125	CLASSIFIED PROGRAM	[ ]	[ ]	[ ]		[ ]
2040	0604256A	126	THREAT SIMULATOR DEVELOPMENT	21,887	21,887	21,887		21,887
2040	0604258A	127	TARGET SYSTEMS DEVELOPMENT	13,499	13,499	13,499		13,499
2040	0604759A	128	MAJOR T&E INVESTMENT	66,921	66,921	66,921		66,921
2040	0604812A	129	CLASSIFIED PROGRAM	[ ]	[ ]	[ ]		[ ]
2040	0605103A	130	RAND ARROYO CENTER	16,342	18,342	16,342	2,000	18,342
			Program increase		[2,000]		[2,000]	
2040	0605301A	131	ARMY KWAJALEIN ATOLL	182,136	182,136	182,136		182,136
2040	0605326A	132	CONCEPTS EXPERIMENTATION PROGRAM	34,004	42,004	34,004	-10,938	23,066
			Gunfire detection system for UAVs		[6,000]		[1,600]	
			Study of warfighting initiative for future technologies and tactics aviation		[2,000]			
			Program adjustment				[-12,538]	

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0605502A	133	SMALL BUSINESS INNOVATIVE RESEARCH					
2040	0605601A	134	ARMY TEST RANGES AND FACILITIES	357,964	357,964	357,964		357,964
2040	0605602A	135	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	74,391	74,961	74,391	480	74,871
			Robotic manipulators for EOD		[570]		[480]	
2040	0605604A	136	SURVIVABILITY/LETHALITY ANALYSIS	40,343	40,343	40,343		40,343
2040	0605605A	137	DOD HIGH ENERGY LASER TEST FACILITY	2,801	2,801	10,301	6,000	8,801
			HELSTF			[7,500]	[6,000]	
2040	0605606A	138	AIRCRAFT CERTIFICATION	4,688	4,688	4,688		4,688
2040	0605702A	139	METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES	8,346	8,346	8,346		8,346
2040	0605706A	140	MATERIEL SYSTEMS ANALYSIS	16,526	16,526	16,526		16,526
2040	0605709A	141	EXPLOITATION OF FOREIGN ITEMS	[ ]	[ ]	[ ]		[ ]
2040	0605712A	142	SUPPORT OF OPERATIONAL TESTING	75,293	75,293	75,293		75,293
2040	0605716A	143	ARMY EVALUATION CENTER	61,694	61,694	61,694		61,694
2040	0605718A	144	SIMULATION & MODELING FOR ACQ, RQTS, & TNG (SMART)	5,342	5,342	5,342		5,342
2040	0605801A	145	PROGRAMWIDE ACTIVITIES	73,718	73,718	73,718		73,718
2040	0605803A	146	TECHNICAL INFORMATION ACTIVITIES	41,607	41,607	41,607	-1,000	40,607
			Unjustified growth				[-1,000]	
2040	0605805A	147	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFET	19,606	20,606	19,606	1,000	20,606
			National Polymer Innovation Center		[1,000]		[1,000]	
2040	0605857A	148	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	4,958	4,958	4,958		4,958
2040	0605898A	149	MANAGEMENT HQ - R&D	14,889	14,889	14,889		14,889
2040	0909999A	150	FINANCING FOR CANCELLED ACCOUNT ADJUSTMENTS					
2040	0603778A	151	MLRS PRODUCT IMPROVEMENT PROGRAM	54,055	56,555	56,555		54,055
			HIMARS modular launcher communications system (MLCS)		[2,500]	[2,500]		
2040	0603820A	152	WEAPONS CAPABILITY MODIFICATIONS UAV	3,900	3,900	3,900		3,900
2040	0102419A	153	AEROSTAT JOINT PROJECT OFFICE	481,251	484,251	481,251		481,251
			MEMS demonstration radar		[3,000]			
2040	0203726A	154	ADV FIELD ARTILLERY TACTICAL DATA SYSTEM	16,837	16,837	16,837		16,837

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0203735A	155	COMBAT VEHICLE IMPROVEMENT PROGRAMS	27,615	30,615	38,515	9,440	37,055
			Vehicle health management systems development			[6,000]	[4,000]	
			Combat vehicle transmission improvement			[4,900]	[3,840]	
			Virtual simulation and modernization of BFV computers		[3,000]		[1,600]	
2040	0203740A	156	MANEUVER CONTROL SYSTEM	43,961	43,961	43,961		43,961
2040	0203744A	157	AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGR	325,643	320,643	330,643	-11,000	314,643
			Helicopter autonomous landing system (HALS)			[5,000]	[4,000]	
			Aerial Common Sensor		[-5,000]		[-15,000]	
2040	0203752A	158	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	476	476	476		476
2040	0203758A	159	DIGITIZATION	9,737	9,737	9,737		9,737
2040	0203759A	160	FORCE XXI BATTLE COMMAND, BRIGADE AND BELOW (FBCB2	32,446	32,446	32,446		32,446
2040	0203764A	161	TACTICAL WHEELED VEHICLE IMPROVEMENT PROGRAM					
2040	0203801A	162	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM	30,219	30,219	30,219		30,219
2040	0203802A	163	OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	1,897	1,897	1,897		1,897
2040	0203808A	164	TRACTOR CARD	16,573	16,573	16,573		16,573
2040	0208010A	165	JOINT TACTICAL COMMUNICATIONS PROGRAM (TRI-TAC)	1,536	1,536	1,536		1,536
2040	0208053A	166	JOINT TACTICAL GROUND SYSTEM	23,462	23,462	13,462		23,462
			JTAGS			[-10,000]		
2040	0208058A	167	JOINT HIGH SPEED VESSEL (JHSV)	5,148	5,148	5,148		5,148
2040	0301359A	168	SPECIAL ARMY PROGRAM	[ ]	[ ]	[ ]		[ ]
2040	0303028A	169	SECURITY AND INTELLIGENCE ACTIVITIES					
2040	0303140A	170	INFORMATION SYSTEMS SECURITY PROGRAM	28,332	29,832	28,332		28,332
			RUBIX multilevel security		[1,500]			
2040	0303141A	171	GLOBAL COMBAT SUPPORT SYSTEM	129,689	94,689	129,689	-35,000	94,689
			Program reduction		[-35,000]		[-35,000]	
2040	0303142A	172	SATCOM GROUND ENVIRONMENT (SPACE)	107,849	107,849	107,849		107,849
2040	0303150A	173	WWMCCS/GLOBAL COMMAND AND CONTROL SYSTEM	24,836	24,836	24,836		24,836
2040	0303158A	174	JOINT COMMAND AND CONTROL PROGRAM (JC2)	10,415	10,415	10,415		10,415

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Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
2040	0305204A	175	TACTICAL UNMANNED AERIAL VEHICLES	97,947	101,947	127,947		97,947
			Constant Hawk			[30,000]		
			Heavy fuel engines		[4,000]			
2040	0305206A	176	AIRBORNE RECONNAISSANCE SYSTEMS	[ ]	[ ]	[ ]		[ ]
2040	0305208A	177	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	[ ]	[ ]	[ ]	[6,800]	[ ]
			Constant look operational support environment		[4,000]		[1,600]	
			Asymmetric threat response and analysis program		[5,000]		[2,400]	
			Blast risk analysis and mitigation application		[4,000]		[1,600]	
			Sensor visualization data fusion		[2,000]		[1,200]	
2040	0702239A	178	AVIONICS COMPONENT IMPROVEMENT PROGRAM	1,024	1,024	1,024		1,024
2040	0708045A	179	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	66,869	75,869	66,869	3,600	70,469
			Specialized compact automated mechanical clearance platform		[3,000]		[400]	
			Non-hot pressed encapsulated armor ceramic manufacturing technology		[6,000]		[3,200]	
2040	1001018A	180	NATO JOINT STARS					
2040		999	CLASSIFIED PROGRAMS	147,162	147,162	137,162	6,800	153,962
			Total, RDT&E Army	**10,589,604**	**10,057,498**	**11,327,945**	**250,788**	**10,840,392**

Wide-area persistent surveillance

The budget request included a classified amount in PE35206A for improvements to the Constant Hawk persistent surveillance system.

The House bill would approve the requested amount.

The Senate amendment would authorize an additional $30.0 million to accelerate and broaden the scope of the Constant Hawk system.

The conferees agree to authorize the requested amount.

The current deployment of the Army's Constant Hawk system has proven the importance of large-area persistent surveillance in the campaign against improvised explosive device (IED) networks in Iraq. However, the coverage area is limited, and the platform's endurance is also limited. The system is designed to provide support only to the forensic analysis mission.

The Marine Corps is fielding a similar capability called Angel Fire. Angel Fire is designed to provide real-time support to ground force operations with improved sensor resolution. The conferees agree that while these two systems should eventually be merged into a single program with improved capabilities, this merger must not hinder current efforts to complete the fielding of either the Constant Hawk or Angel Fire systems. The conferees also urge the Army and Marine Corps to commit to integrating these systems in accordance with the equipment and procedures required by Task Force ODIN, and Army and Marine Corps ground forces. This merger should be accomplished as soon as practicable.

The conferees direct the Secretary of Defense to provide a conceptual plan for merger of the Constant Hawk and Angel Fire programs, which must include an assessment of the intelligence, surveillance, and reconnaissance (ISR) impacts of such a merger. The conferees also direct the Secretaries of the Army and Navy to provide program management plans for the Constant Hawk and Angel Fire programs, including respective budget detail to the congressional defense and intelligence committees within 60 days of enactment of this Act. The conferees also direct the Secretary of Defense to provide a study of future improvements to wide-area persistent surveillance, including: an assessment of sensor technology capabilities and limitations; an analysis of the most suitable sensor platforms; an evaluation of the best system architecture for collecting, sharing, and analyzing sensor data; and analysis of the optimum use of wide-area surveillance for defeating IED and other asymmetric threat networks. The results of this study should be provided to the congressional defense and intelligence committees within 180 days of enactment of this Act.

NAVY

Research, Development, Test, and Evaluation, Navy overview

The budget request included $17,075.5 million in Research, Development, Test, and Evaluation, Navy for the Department of Defense.

The House bill would authorize $17,323.6 million.

The Senate amendment would authorize $16,296.4 million.

The conferees agree to authorize $16,980.7 million.

Unless noted explicitly in the statement of managers, all changes are made without prejudice.

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
			RESEARCH, DEVELOPMENT, TEST & EVALUATION, NAVY					
1319	0601103N	1	UNIVERSITY RESEARCH INITIATIVES	76,637	81,637	85,637	9,200	85,837
			Program increase			[9,000]	[8,000]	
			Center for Nanosciences and Nanomaterials		[5,000]		[1,200]	
1319	0601152N	2	IN-HOUSE LABORATORY INDEPENDENT RESEARCH	16,556	16,556	16,556		16,556
1319	0601153N	3	DEFENSE RESEARCH SCIENCES	374,052	379,052	375,052	3,200	377,252
			Science & technology educational outreach programs			[1,000]	[800]	
			Energetics concepts and development		[5,000]		[2,400]	
1319	0602114N	4	POWER PROJECTION APPLIED RESEARCH	83,419	96,719	86,419	7,000	90,419
			Infrared materials research			[3,000]		
			High energy conventional energetics		[6,000]		[5,000]	
			Jefferson Lab high power FEL development		[5,000]		[2,000]	
			Advanced linear accelerator		[2,300]			
1319	0602123N	5	FORCE PROTECTION APPLIED RESEARCH	155,936	157,436	169,436	8,600	164,536
			Undersea perimeter security systems			[3,500]	[2,800]	
			Port security technologies			[2,000]		
			Unmanned sea surface vessel propulsion & power research			[3,000]		
			Energy systems integration research			[2,000]	[2,000]	
			UAV fuel cell technologies			[2,000]	[2,000]	
			Critical composite technologies for SOF medium range endurance			[1,000]	[1,000]	
			Optical recognition protocol for biologics detection		[1,500]		[800]	
1319	0602131M	6	MARINE CORPS LANDING FORCE TECHNOLOGY	26,785	29,785	31,285	3,000	29,785
			Rapid awareness systems			[4,500]	[3,000]	
			Compact pulse power sources		[3,000]			
1319	0602234N	7	MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY		5,000		2,000	2,000
			Improved corrosion protection for Electromagnetic Aircraft Launch System (EMALS)		[3,000]			
			Infrared Materials Center		[2,000]		[2,000]	

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
1319	0602235N	8	COMMON PICTURE APPLIED RESEARCH	93,376	99,376	93,376		93,376
			Blossom Point Satellite Facility		[2,000]			
			Agile coalition environment		[4,000]			
1319	0602236N	9	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	88,297	103,297	88,297	2,400	90,697
			PULSE-Virtual Clinical Learning Lab		[15,000]		[2,400]	
1319	0602271N	10	RF SYSTEMS APPLIED RESEARCH	45,451	45,451	48,451	2,000	47,451
			RF power technologies			[3,000]	[2,000]	
1319	0602435N	11	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	49,869	52,109	49,869	800	50,669
			Marine mammal effects of sound		[2,240]		[800]	
1319	0602651M	12	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	6,081	6,081	6,081		6,081
1319	0602747N	13	UNDERSEA WARFARE APPLIED RESEARCH	68,455	73,255	71,455		68,455
			Vector sensor technology development			[3,000]		
			Persistent littoral undersea surveillance		[4,800]			
1319	0602782N	14	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	59,874	63,874	59,874	2,800	62,674
			Autonomous underwater vehicle docking and recharging station		[4,000]		[2,800]	
1319	0603114N	15	POWER PROJECTION ADVANCED TECHNOLOGY	49,684	66,684	54,684	2,400	52,084
			Excalibur UAV			[1,000]	[800]	
			Free electron laser research			[4,000]		
			Countermine LIDAR Undersea Vehicle (CLUBS)		[2,200]			
			Tactical compact optical interrogator		[7,800]		[1,600]	
			High bandwidth ship to ship optical communications		[1,000]			
			DP-2 vectored thrust aircraft		[6,000]			

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(Dollars in Thousands)

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1319	0603123N	16	FORCE PROTECTION ADVANCED TECHNOLOGY	70,850	117,850	100,150	23,350	94,200
			Autonomous superconducting fault current limiting system			[3,000]		
			Navy manufacturing & repair cell			[5,000]	[4,000]	
			Development of wide-band gap semiconductor materials			[5,000]	[1,600]	
			Navy/USMC fuel cell non tactical vehicle initiative			[4,900]	[1,600]	
			Electrochemical field-deployable system for potable water generation			[3,000]	[2,400]	
			Fuel cell manufacturability research			[3,400]	[2,750]	
			Single generator operations lithium ion battery			[5,000]	[5,000]	
			Composite technologies for SOF medium range endurance craft		[1,000]			
			Swimmer detection sonar network		[6,000]		[1,200]	
			Secure naval infrastructure		[7,000]		[3,200]	
			Naval power systems and homeport security		[7,000]			
			High speed power node switching and control		[4,000]		[1,600]	
			Seafighter		[22,000]			
1319	0603235N	17	COMMON PICTURE ADVANCED TECHNOLOGY	40,782	53,582	40,782	8,000	48,782
			Project Athena		[10,000]		[6,400]	
			Maritime identification surveillance technology		[2,800]		[1,600]	
1319	0603236N	18	WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY	102,124	102,124	102,124	-10,000	92,124
			Slow execution				[-10,000]	
1319	0603271N	19	RF SYSTEMS ADVANCED TECHNOLOGY	22,676	22,676	22,676		22,676
1319	0603640M	20	USMC ADVANCED TECHNOLOGY DEMONSTRATION (ATD)	70,968	73,468	75,968		70,968
			Ground warfare acoustical combat system		[2,500]	[5,000]		
1319	0603651M	21	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	10,938	17,938	10,938		10,938
			Hail and warning laser		[7,000]			
1319	0603727N	22	NAVY TECHNICAL INFORMATION PRESENTATION SYSTEM					
1319	0603729N	23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	12,145	12,145	12,145		12,145
1319	0603747N	24	UNDERSEA WARFARE ADVANCED TECHNOLOGY	73,626	79,326	73,626		73,626
			Deployable autonomous distributed system		[5,700]			
1319	0603758N	25	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	41,196	41,196	41,196		41,196

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1319	0603782N	26	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLC	26,840	26,840	26,840		26,840
1319	0603207N	27	AIR/OCEAN TACTICAL APPLICATIONS	47,914	47,914	47,914	-10,000	37,914
			Meteorological and Ocean Sensors (METOC) data acquisition program growth				[-10,000]	
1319	0603216N	28	AVIATION SURVIVABILITY	6,252	17,502	6,252		6,252
			Rotorcraft external airbag system		[4,000]			
			Air Sentinel UAS		[7,250]			
1319	0603237N	29	DEPLOYABLE JOINT COMMAND ANDCONTROL	9,475	9,475	9,475		9,475
1319	0603254N	30	ASW SYSTEMS DEVELOPMENT	16,706	26,706	16,706	4,000	20,706
			Marine mammal alert system		[4,000]		[2,400]	
			Tactical E-field buoy development program		[6,000]		[1,600]	
1319	0603261N	31	TACTICAL AIRBORNE RECONNAISSANCE	4,063	4,063	4,063		4,063
1319	0603382N	32	ADVANCED COMBAT SYSTEMS TECHNOLOGY	9,331	17,331	9,331		9,331
			Open architecture technology insertion management environment		[8,000]			
1319	0603502N	33	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	91,122	91,122	91,122		91,122
1319	0603506N	34	SURFACE SHIP TORPEDO DEFENSE	15,967	15,967	17,467	1,500	17,467
			Sensor arrays for multiple applications (SAMA)			[1,500]	[1,500]	
1319	0603512N	35	CARRIER SYSTEMS DEVELOPMENT	84,806	84,806	84,806		84,806
1319	0603513N	36	SHIPBOARD SYSTEM COMPONENT DEVELOPMENT	9,450	38,950	38,850	10,200	19,650
			Smart valve			[3,000]	[2,400]	
			Power conversion equipment			[2,500]	[800]	
			High temperature superconducting AC synchronous propulsion mote		[9,000]	[14,400]	[2,000]	
			Shipboard flywheel energy storage system			[9,500]	[600]	
			Diagnostic pump system		[6,000]			
			Hybrid propulsion permanent magnet motor		[8,000]		[2,000]	
			Propulsor manufacturing technology department		[6,500]		[2,400]	
1319	0603525N	37	PILOT FISH	132,131	132,131	132,131	-2,500	129,631
			Slow Execution				[-2,500]	
1319	0603527N	38	RETRACT LARCH	89,601	89,601	89,601		89,601
1319	0603536N	39	RETRACT JUNIPER	37,405	37,405	37,405		37,405

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1319	0603542N	40	RADIOLOGICAL CONTROL	1,546	1,546	1,546		1,546
1319	0603553N	41	SURFACE ASW	25,560	25,560	29,560	1,600	27,160
			Improved surface vessel torpedo tube launcher			[4,000]	[1,600]	
1319	0603559N	42	SSGN CONVERSION					
1319	0603561N	43	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	134,882	144,632	164,382	8,200	143,082
			Undersea missile launch study (ULMS)			[25,000]	[5,000]	
			Twinline thin line towed array		[4,500]	[4,500]	[3,200]	
			Fiber optic federated acoustic systems		[4,000]			
			Low cost laser module assembly for high frequency fiber optic acoustic sensors		[1,250]			
1319	0603562N	44	SUBMARINE TACTICAL WARFARE SYSTEMS	9,865	9,865	9,865		9,865
1319	0603563N	45	SHIP CONCEPT ADVANCED DESIGN	30,858	30,858	34,858		30,858
			Next generation shipboard monitoring			[4,000]		
1319	0603564N	46	SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES	18,736	28,736	18,736	5,000	23,736
			Wavemaker replacement at Naval Surface Warfare Center (NSWC)		[10,000]		[5,000]	
1319	0603570N	47	ADVANCED NUCLEAR POWER SYSTEMS	166,196	166,196	166,196		166,196
1319	0603573N	48	ADVANCED SURFACE MACHINERY SYSTEMS					
1319	0603576N	49	CHALK EAGLE	211,201	211,201	211,201		211,201
1319	0603581N	50	LITTORAL COMBAT SHIP (LCS)	217,502	207,502	217,502		217,502
			Mission modules decrease (AMDT 35)		[-10,000]			
1319	0603582N	51	COMBAT SYSTEM INTEGRATION	53,427	53,427	53,427		53,427
1319	0603609N	52	CONVENTIONAL MUNITIONS	8,941	8,941	8,941		8,941
1319	0603611M	53	MARINE CORPS ASSAULT VEHICLES	288,220	88,220	188,220	-35,000	253,220
			Expeditionary fighting vehicle (EFV)		[-200,000]	[-100,000]	[-35,000]	
1319	0603612M	54	USMC MINE COUNTERMEASURES SYSTEMS - ADV DEV	657	657	657		657
1319	0603635M	55	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	80,403	80,403	100,403	-35,000	45,403
			Joint light tactical vehicle (JLTV) - transfer from Title XV			[20,000]		
			Joint Light Tactical Vehicle contract delay				[-35,000]	
1319	0603654N	56	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	83,361	83,361	83,361		83,361
1319	0603658N	57	COOPERATIVE ENGAGEMENT	33,283	33,283	33,283		33,283

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1319	0603713N	58	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	5,122	5,122	5,122		5,122
1319	0603721N	59	ENVIRONMENTAL PROTECTION	19,850	19,850	19,850		19,850
1319	0603724N	60	NAVY ENERGY PROGRAM	5,335	6,835	5,335	800	6,135
			Synthetic fuels		[1,500]		[800]	
1319	0603725N	61	FACILITIES IMPROVEMENT	4,131	4,131	4,131		4,131
1319	0603734N	62	CHALK CORAL	28,297	28,297	28,297		28,297
1319	0603739N	63	NAVY LOGISTIC PRODUCTIVITY	3,547	3,547	7,547	1,600	5,147
			Highly integrated optical interconnects for advanced air vehicles			[4,000]	[1,600]	
1319	0603746N	64	RETRACT MAPLE	346,144	346,144	346,144		346,144
1319	0603748N	65	LINK PLUMERIA	88,748	88,748	88,748		88,748
1319	0603751N	66	RETRACT ELM	79,144	79,144	79,144		79,144
1319	0603755N	67	SHIP SELF DEFENSE	10,954	10,954	10,954		10,954
1319	0603764N	68	LINK EVERGREEN	31,607	31,607	31,607		31,607
1319	0603787N	69	SPECIAL PROCESSES	40,940	40,940	40,940		40,940
1319	0603790N	70	NATO RESEARCH AND DEVELOPMENT	9,934	9,934	9,934		9,934
1319	0603795N	71	LAND ATTACK TECHNOLOGY	31,021	69,021	31,021	19,800	50,821
			JSOW-ER Demo		[3,000]		[3,000]	
			Affordable Weapon System		[30,000]		[15,200]	
			76mm super rapid medium caliber gun system		[5,000]		[1,600]	
1319	0603851M	72	NONLETHAL WEAPONS	45,892	45,892	45,892		45,892
1319	0603857N	73	ALL SERVICE COMBAT IDENTIFICATION EVALUATION TEAM (A					
1319	0603860N	74	JOINT PRECISION APPROACH AND LANDING SYSTEMS	70,811	70,811	70,811		70,811
1319	0603879N	75	SINGLE INTEGRATED AIR PICTURE (SIAP) SYSTEM ENGINEER	46,450	46,450	46,450		46,450
1319	0603889N	76	COUNTERDRUG RDT&E PROJECTS					
1319	0603925N	77	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS					
1319	0604272N	78	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	27,569	31,569	31,569	1,600	29,169
			High power fiber laser - base pod		[4,000]	[4,000]	[1,600]	
1319	0604327N	79	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTI	126,434	126,434		-126,434	
			Conventional Trident Missile (CTM)			[-126,434]	[-126,434]	

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1319	0604450N	80	JOINT AIR-TO-GROUND MISSILE (JAGM)	15,000	15,000	15,000		15,000
1319	0604707N	81	SPACE AND ELECTRONIC WARFARE (SEW) ARCHITECTURE/E	42,295	42,295	42,295		42,295
1319	0604787N	82	JOINT WARFARE TRANSFORMATION PROGRAMS					
1319	0604212N	83	OTHER HELO DEVELOPMENT	46,815	46,815	46,815	-5,000	41,815
			Program execution				[-5,000]	
1319	0604214N	84	AV-8B AIRCRAFT - ENG DEV	17,360	17,360	17,360		17,360
1319	0604215N	85	STANDARDS DEVELOPMENT	106,242	113,742	106,242	3,200	109,442
			Advanced measurements standards		[7,500]		[3,200]	
1319	0604216N	86	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	78,151	78,151	78,151		78,151
1319	0604218N	87	AIR/OCEAN EQUIPMENT ENGINEERING	5,162	5,162	5,162		5,162
1319	0604221N	88	P-3 MODERNIZATION PROGRAM	8,621	8,621	8,621	-4,000	4,621
			Program execution				[-4,000]	
1319	0604230N	89	WARFARE SUPPORT SYSTEM	2,911	2,911	2,911		2,911
1319	0604231N	90	TACTICAL COMMAND SYSTEM	86,921	91,921	86,921		86,921
			Software reconfigurable payloads		[5,000]			
1319	0604234N	91	ADVANCED HAWKEYE	808,993	808,993	808,993		808,993
1319	0604245N	92	H-1 UPGRADES	3,608	3,608	3,608		3,608
1319	0604261N	93	ACOUSTIC SEARCH SENSORS	18,325	20,325	18,325	800	19,125
			Deep extended echo ranging		[2,000]		[800]	
1319	0604262N	94	V-22A	117,997	117,997	117,997		117,997
1319	0604264N	95	AIR CREW SYSTEMS DEVELOPMENT	24,267	24,267	24,267		24,267
1319	0604269N	96	EA-18	272,699	272,699	272,699		272,699
1319	0604270N	97	ELECTRONIC WARFARE DEVELOPMENT	41,064	41,064	41,064		41,064
1319	0604273N	98	VH-71A EXECUTIVE HELO DEVELOPMENT	270,971	270,971	270,971	-40,000	230,971
			Program execution				[-40,000]	
1319	0604280N	99	JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY)	853,676	853,676	853,676		853,676
1319	0604300N	100	SC-21 TOTAL SHIP SYSTEM ENGINEERING	621,544	630,544	636,544	11,400	632,944
			Permanent magnet motor system		[9,000]	[9,000]	[9,000]	
			Advanced wireless encryption module			[6,000]	[2,400]	

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1319	0604307N	101	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	142,810	142,810	142,810		142,810
1319	0604311N	102	LPD-17 CLASS SYSTEMS INTEGRATION	4,300	4,300	4,300		4,300
1319	0604329N	103	SMALL DIAMETER BOMB (SDB)	9,832	9,832	9,832		9,832
1319	0604366N	104	STANDARD MISSILE IMPROVEMENTS	231,791	231,791	231,791		231,791
1319	0604373N	105	AIRBORNE MCM	54,761	54,761	54,761		54,761
1319	0604378N	106	NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR SYSTEMS	11,497	11,497	11,497		11,497
1319	0604501N	107	ADVANCED ABOVE WATER SENSORS	121,494	121,494	121,494		121,494
1319	0604503N	108	SSN-688 AND TRIDENT MODERNIZATION	114,789	114,789	119,189	3,200	117,989
			Improved submarine thin line towed array handler & array reliability			[4,400]	[3,200]	
1319	0604504N	109	AIR CONTROL	4,166	4,166	4,166		4,166
1319	0604507N	110	ENHANCED MODULAR SIGNAL PROCESSOR					
1319	0604512N	111	SHIPBOARD AVIATION SYSTEMS	28,100	28,100	28,100		28,100
1319	0604518N	112	COMBAT INFORMATION CENTER CONVERSION	17,139	17,139	21,139		17,139
			Combat information center conversion			[4,000]		
1319	0604558N	113	NEW DESIGN SSN	223,958	223,958	229,958	2,700	226,658
			Submarine electronic chart updates			[6,000]	[2,700]	
1319	0604561N	114	SSN-21 DEVELOPMENTS	2,457	2,457	2,457		2,457
1319	0604562N	115	SUBMARINE TACTICAL WARFARE SYSTEM	53,703	53,703	53,703		53,703
1319	0604567N	116	SHIP CONTRACT DESIGN/ LIVE FIRE T&E	62,404	62,404	67,304		62,404
			LHA[R] design - transfer from NDSF			[4,900]		
1319	0604574N	117	NAVY TACTICAL COMPUTER RESOURCES					
1319	0604601N	118	MINE DEVELOPMENT	2,092	2,092	2,092		2,092
1319	0604603N	119	UNGUIDED CONVENTIONAL AIR-LAUNCHED WEAPONS					
1319	0604610N	120	LIGHTWEIGHT TORPEDO DEVELOPMENT	27,056	27,056	27,056		27,056
1319	0604618N	121	JOINT DIRECT ATTACK MUNITION					
1319	0604654N	122	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	10,382	10,382	10,382		10,382
1319	0604703N	123	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	8,830	8,830	8,830		8,830
1319	0604721N	124	BATTLE GROUP PASSIVE HORIZON EXTENSION SYSTEM					
1319	0604727N	125	JOINT STANDOFF WEAPON SYSTEMS	24,851	24,851	24,851		24,851

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1319	0604755N	126	SHIP SELF DEFENSE (DETECT & CONTROL)	33,064	33,064	33,064		33,064
1319	0604756N	127	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	67,366	75,166	77,166	6,800	74,166
			Phalanx next generation		[7,800]	[9,800]	[6,800]	
1319	0604757N	128	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	34,323	37,323	43,323	1,600	35,923
			NULKA decoy research & development			[9,000]		
			Distributed Detection, Classification, Localization (DCL)		[3,000]		[1,600]	
1319	0604761N	129	INTELLIGENCE ENGINEERING	1,959	1,959	1,959		1,959
1319	0604771N	130	MEDICAL DEVELOPMENT	7,973	22,248	11,973	5,800	13,773
			Pandemic influenza vaccine program		[2,000]		[1,600]	
			Implantable middle-ear hearing system		[4,000]		[1,000]	
			Human clinical trials - infusible hemostatic drug		[8,275]	[4,000]	[3,200]	
1319	0604777N	131	NAVIGATION/ID SYSTEM	42,121	42,121	42,121		42,121
1319	0604784N	132	DISTRIBUTED SURVEILLANCE SYSTEM					
1319	0604800N	133	JOINT STRIKE FIGHTER (JSF)	1,707,372	1,822,372	1,927,672	98,400	1,805,772
			Excessive unearned award fee carry over			[-19,700]	[-8,600]	
			Continue competitive engine development		[240,000]	[240,000]	[240,000]	
			Program reduction		[-125,000]		[-133,000]	
1319	0604910N	134	SMART CARD					
1319	0605013M	135	INFORMATION TECHNOLOGY DEVELOPMENT	22,181	22,181	22,181		22,181
1319	0605013N	136	INFORMATION TECHNOLOGY DEVELOPMENT	54,098	54,098	54,098		54,098
1319	0605172N	137	MULTINATIONAL INFORMATION SHARING (MNIS)					
1319	0605212N	138	CH-53K RDTE	417,161	417,161	417,161	-20,000	397,161
			Program delay				[-20,000]	
1319	0605500N	139	MULTI-MISSION MARITIME AIRCRAFT (MMA)	880,106	880,106	880,106		880,106
1319	0304785N	140	TACTICAL CRYPTOLOGIC SYSTEMS	39,053	39,053	39,053		39,053
1319	0604256N	141	THREAT SIMULATOR DEVELOPMENT	23,924	23,924	23,924		23,924
1319	0604258N	142	TARGET SYSTEMS DEVELOPMENT	32,376	42,376	32,376		32,376
			Threat D target system		[10,000]			

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1319	0604759N	143	MAJOR T&E INVESTMENT	37,614	43,614	37,614	4,100	41,714
			Fiber optic data link - network expansion		[6,000]		[4,100]	
1319	0605152N	144	STUDIES AND ANALYSIS SUPPORT - NAVY	7,516	7,516	7,516		7,516
1319	0605154N	145	CENTER FOR NAVAL ANALYSES	49,360	49,360	49,360		49,360
1319	0605155N	146	FLEET TACTICAL DEVELOPMENT					
1319	0605502N	147	SMALL BUSINESS INNOVATIVE RESEARCH					
1319	0605804N	148	TECHNICAL INFORMATION SERVICES	694	694	694		694
1319	0605853N	149	MANAGEMENT, TECHNICAL& INTERNATIONAL SUPPORT	49,498	49,498	49,498		49,498
1319	0605856N	150	STRATEGIC TECHNICAL SUPPORT	3,452	3,452	3,452		3,452
1319	0605861N	151	RDT&E SCIENCE AND TECHNOLOGY MANAGEMENT	68,180	68,180	68,180		68,180
1319	0605862N	152	RDT&E INSTRUMENTATION MODERNIZATION	1,423	1,423	1,423		1,423
1319	0605863N	153	RDT&E SHIP AND AIRCRAFT SUPPORT	184,541	184,541	184,541		184,541
1319	0605864N	154	TEST AND EVALUATION SUPPORT	336,130	336,130	336,130		336,130
1319	0605865N	155	OPERATIONAL TEST AND EVALUATION CAPABILITY	12,176	12,176	12,176		12,176
1319	0605866N	156	NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT	2,439	2,439	2,439		2,439
1319	0605867N	157	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	29,071	29,071	29,071	-5,000	24,071
			Program growth				[-5,000]	
1319	0605873M	158	MARINE CORPS PROGRAM WIDE SUPPORT	20,166	20,166	20,166		20,166
1319	0305885N	159	TACTICAL CRYPTOLOGIC ACTIVITIES	1,508	1,508	1,508		1,508
1319	0804758N	160	SERVICE SUPPORT TO JFCOM, JNTC	5,078	5,078	5,078		5,078
1319	0909999N	161	FINANCING FOR CANCELLED ACCOUNT ADJUSTMENTS					
1319	0603660N	162	ADVANCED DEVELOPMENT PROJECTS	[ ]	[ ]	[ ]	[-50,000]	[ ]
			Classified program				[-50,000]	
1319	0604227N	163	HARPOON MODIFICATIONS	43,470	43,470	43,470		43,470
1319	0604402N	164	UNMANNED COMBAT AIR VEHICLE (UCAV) ADVANCED COMP(	161,665	161,665	161,665		161,665
1319	0101221N	165	STRATEGIC SUB & WEAPONS SYSTEM SUPPORT	81,398	56,398	75,398	-12,000	69,398
			RRW Phase 3		[-25,000]	[-15,000]	[-15,000]	
			LINAC			[9,000]	[3,000]	
1319	0101224N	166	SSBN SECURITY TECHNOLOGY PROGRAM	33,109	33,109	33,109		33,109

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
1319	0101226N	167	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	4,149	4,149	4,149		4,149
1319	0101402N	168	NAVY STRATEGIC COMMUNICATIONS	36,531	36,531	36,531		36,531
1319	0203761N	169	RAPID TECHNOLOGY TRANSITION (RTT)	44,756	44,756	44,756	-5,000	39,756
			Program execution				[-5,000]	
1319	0204136N	170	F/A-18 SQUADRONS	44,891	44,891	44,891		44,891
1319	0204152N	171	E-2 SQUADRONS	22,691	22,691	22,691		22,691
1319	0204163N	172	FLEET TELECOMMUNICATIONS (TACTICAL)	23,108	28,008	23,108		23,108
			Communications upgrade - DDG modernization		[3,900]			
			IPv6 Transition Planning Laboratory - SPAWAR		[1,000]			
1319	0204229N	173	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (T	11,405	13,155	11,405	1,280	12,685
			Weapons control system		[1,750]		[1,280]	
1319	0204311N	174	INTEGRATED SURVEILLANCE SYSTEM	27,740	27,740	27,740		27,740
1319	0204413N	175	AMPHIBIOUS TACTICAL SUPPORT UNITS (DISPLACEMENT CR/	1,845	1,845	1,845		1,845
1319	0204571N	176	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	6,987	6,987	6,987		6,987
1319	0204574N	177	CRYPTOLOGIC DIRECT SUPPORT	1,443	1,443	1,443		1,443
1319	0204575N	178	ELECTRONIC WARFARE (EW) READINESS SUPPORT	34,340	34,340	34,340		34,340
1319	0205601N	179	HARM IMPROVEMENT	34,762	34,762	34,762		34,762
1319	0205604N	180	TACTICAL DATA LINKS	5,534	5,534	5,534		5,534
1319	0205620N	181	SURFACE ASW COMBAT SYSTEM INTEGRATION	11,200	21,200	11,200	6,400	17,600
			Acoustic windows		[10,000]		[6,400]	
1319	0205632N	182	MK-48 ADCAP	17,941	19,941	17,941	1,600	19,541
			Post launch communication system		[2,000]		[1,600]	
1319	0205633N	183	AVIATION IMPROVEMENTS	100,284	103,284	104,284	3,600	103,884
			Structural life tracking			[4,000]	[1,600]	
			Age exploration model		[3,000]		[2,000]	
1319	0205658N	184	NAVY SCIENCE ASSISTANCE PROGRAM	3,473	3,473	3,473		3,473
1319	0205675N	185	OPERATIONAL NUCLEAR POWER SYSTEMS	71,720	71,720	71,720		71,720
1319	0206313M	186	MARINE CORPS COMMUNICATIONS SYSTEMS	280,140	280,140	280,140	-25,000	255,140
			Slow execution				[-25,000]	

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
1319	0206623M	187	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYST	57,177	61,177	70,877	6,200	63,377
			Ultrasonic consolidation of embedded sensors		[4,000]	[3,900]	[1,200]	
			Anti-sniper infrared targeting system (ASITS)			[9,800]	[5,000]	
1319	0206624M	188	MARINE CORPS COMBAT SERVICES SUPPORT	12,946	12,946	12,946		12,946
1319	0207161N	189	TACTICAL AIM MISSILES	4,445	4,445	4,445		4,445
1319	0207163N	190	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	4,579	4,579	4,579	-2,000	2,579
			Unjustified request: Medium range missile concept				[-2,000]	
1319	0208058N	191	JOINT HIGH SPEED VESSEL (JHSV)	18,934	18,934	18,934		18,934
1319	0301303N	192	MARITIME INTELLIGENCE	[ ]	[ ]	[ ]	[3,000]	[ ]
			Classified program				[3,000]	
1319	0301323N	193	COLLECTION MANAGEMENT	[ ]	[ ]	[ ]		[ ]
1319	0301327N	194	TECHNICAL RECONNAISSANCE AND SURVEILLANCE	[ ]	[ ]	[ ]		[ ]
1319	0303109N	195	SATELLITE COMMUNICATIONS (SPACE)	736,572	738,572	749,572	1,000	737,572
			UHF gap risk reduction			[10,000]		
			IPv6			[3,000]		
			Joint integrated systems for advanced digital networking		[2,000]		[1,000]	
1319	0303140N	196	INFORMATION SYSTEMS SECURITY PROGRAM	28,393	28,393	28,393		28,393
1319	0303158M	197	JOINT COMMAND AND CONTROL PROGRAM (JC2)	1,007	1,007	1,007		1,007
1319	0303158N	198	JOINT COMMAND AND CONTROL PROGRAM (JC2)	5,015	5,015	5,015		5,015
1319	0305149N	199	COBRA JUDY	132,679	132,679	132,679		132,679
1319	0305160N	200	NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METO	4,887	4,887	4,887		4,887
1319	0305188N	201	JOINT C4ISR BATTLE CENTER (JBC)					
1319	0305192N	202	MILITARY INTELLIGENCE PROGRAM (MIP) ACTIVITIES	5,444	5,444	5,444		5,444
1319	0305204N	203	TACTICAL UNMANNED AERIAL VEHICLES	50,185	51,185	50,185		50,185
			Compact real-time hyperspectral ISR		[1,000]			
1319	0305205N	204	ENDURANCE UNMANNED AERIAL VEHICLES	116,666	116,666	116,666		116,666
1319	0305206N	205	AIRBORNE RECONNAISSANCE SYSTEMS	50,677	50,677	50,677		50,677
1319	0305207N	206	MANNED RECONNAISSANCE SYSTEMS	22,488	22,488	22,488		22,488
1319	0305208N	207	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	19,350	19,350	19,350		19,350

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
1319	0307207N	208	AERIAL COMMON SENSOR (ACS)	16,606	12,606	16,606	-10,000	6,606
			Aerial Common Sensor		[-4,000]		[-10,000]	
1319	0308601N	209	MODELING AND SIMULATION SUPPORT	7,832	7,832	7,832		7,832
1319	0702207N	210	DEPOT MAINTENANCE (NON-IF)	19,402	19,402	19,402		19,402
1319	0702239N	211	AVIONICS COMPONENT IMPROVEMENT PROGRAM	1,635	1,635	1,635		1,635
1319	0708011N	212	INDUSTRIAL PREPAREDNESS	56,445	56,445	58,945		56,445
			Materials stress measurement technologies			[2,500]		
1319	0708730N	213	MARITIME TECHNOLOGY (MARITECH)			15,000	12,000	12,000
			National Shipbuilding Research Program			[15,000]	[12,000]	
1319		999	CLASSIFIED PROGRAMS	1,219,225	1,219,225	174,218	-47,000	1,172,225
			Total, RDT&E Navy	**17,075,536**	**17,323,601**	**16,296,395**	**-94,804**	**16,980,732**

Threat D

The budget request included $32.4 million in PE64258N for target systems development.

The House bill would authorize $42.4 million, an increase of $10.0 million, for a Threat D advanced cruise missile target systems development.

The Senate amendment would authorize the budget request.

The conferees agree to authorize $32.4 million in PE64258N for target systems development.

The conferees are concerned about the limited effort that the Navy has undertaken in developing test resources that can adequately simulate emerging advanced cruise missile threats to Navy platforms. The conferees are aware that the lack of this test capability has been raised specifically by the Director of Operational Test and Evaluation as potentially impacting the operational testing of a number of major Navy acquisition programs. The conferees encourage the Department of Defense to program for adequate resources to ensure that such cruise missile threats can be adequately simulated in a timely manner, in order to avoid disruption to the operational test and evaluation of major systems and to ensure that such systems are operationally suitable and effective at the time of deployment.

AIR FORCE

Research, Development, Test, and Evaluation, Air Force overview

The budget request included $26,711.9 million in Research, Development, Test, and Evaluation, Air Force for the Department of Defense.

The House bill would authorize $25,739.0 million.

The Senate amendment would authorize $25,582.0 million.

The conferees agree to authorize $25,692.5 million.

Unless noted explicitly in the statement of managers, all changes are made without prejudice.

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
			RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE					
3600	0601102F	1	DEFENSE RESEARCH SCIENCES	258,259	258,259	258,259		258,259
3600	0601103F	2	UNIVERSITY RESEARCH INITIATIVES	104,304	104,304	123,304	15,800	120,104
			High-energy laser systems research			[3,000]	[3,000]	
			Military decision cycle time research			[3,000]	[2,400]	
			Secure grid research			[3,000]	[2,400]	
			Program increase			[10,000]	[8,000]	
3600	0601108F	3	HIGH ENERGY LASER RESEARCH INITIATIVES	12,636	12,636	12,636		12,636
3600	0602015F	4	MEDICAL DEVELOPMENT					
3600	0602102F	5	MATERIALS	122,794	131,794	125,794	3,000	125,794
			Advanced carbon fiber research & testing initiative			[3,000]	[3,000]	
			Advanced carbon fiber energy reduction		[4,000]			
			Lightweight laser designator rangefinder		[5,000]			
3600	0602201F	6	AEROSPACE VEHICLE TECHNOLOGIES	131,948	133,948	133,448	2,800	134,748
			Optical connector research			[1,500]	[800]	
			Advancement of intelligent aerospace systems		[2,000]		[2,000]	
3600	0602202F	7	HUMAN EFFECTIVENESS APPLIED RESEARCH	79,856	89,356	79,856	2,400	82,256
			Warfighter XP		[7,000]		[1,600]	
			ChemBio RFID detectors		[2,500]		[800]	
3600	0602203F	8	AEROSPACE PROPULSION	179,161	187,861	182,661	3,200	182,361
			X-51B scramjet research			[3,500]		
			Integrated Starter/Generator/IES		[3,500]		[2,000]	
			Wavelength agile spectral harmonic oxygen sensor		[5,200]		[1,200]	
3600	0602204F	9	AEROSPACE SENSORS	108,055	114,055	109,055	800	108,855
			Net centric sensor grid research			[1,000]		
			Optikey optical maximum entropy verification		[6,000]		[800]	
3600	0602500F	10	MULTI-DISCIPLINARY SPACE TECHNOLOGY					

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0602601F	11	SPACE TECHNOLOGY	109,566	110,566	121,766	2,750	112,316
			Nuclear test seismic research			[11,800]	[2,400]	
			Rocket payload shielding technologies			[400]	[350]	
			Space entrepreneurship		[1,000]			
3600	0602602F	12	CONVENTIONAL MUNITIONS	57,804	62,604	57,804		57,804
			Lightweight compact transmitter for imaging laser radar		[4,800]			
3600	0602605F	13	DIRECTED ENERGY TECHNOLOGY	54,883	54,883	54,883		54,883
3600	0602702F	14	COMMAND CONTROL AND COMMUNICATIONS	116,705	128,605	118,705	3,500	120,205
			Cyber Attack Mitigation Lab		[2,900]	[2,000]	[1,900]	
			Adaptive optics laser communications		[5,000]		[1,600]	
			LIDAR transceiver		[4,000]			
3600	0602805F	15	DUAL USE SCIENCE AND TECHNOLOGY PROGRAM					
3600	0602890F	16	HIGH ENERGY LASER RESEARCH	50,303	50,303	50,303		50,303
3600	0207170F	17	JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS)	[ ]	[ ]	[ ]		[ ]
3600	0301555F	18	CLASSIFIED PROGRAMS	[ ]	[ ]	[ ]		[ ]
3600	0301556F	19	SPECIAL PROGRAM	[ ]	[ ]	[ ]		[ ]
3600	0603112F	20	ADVANCED MATERIALS FOR WEAPON SYSTEMS	39,730	57,730	46,730	6,600	46,330
			Deployable fuel cell processors			[2,000]		
			Electromagnetic interference grid fabrication		[4,000]		[1,600]	
			Metals Affordability Initiative		[14,000]	[5,000]	[5,000]	
3600	0603203F	21	ADVANCED AEROSPACE SENSORS	55,549	69,549	55,549	10,000	65,549
			Versatile Affordable Advanced Turbine Engine		[10,000]		[8,400]	
			Moving target strike		[4,000]		[1,600]	
3600	0603211F	22	AEROSPACE TECHNOLOGY DEV/DEMO	64,922	29,922	67,422	1,600	66,522
			Titanium structures initiative			[2,500]	[1,600]	
			Program reduction		[-35,000]			
3600	0603216F	23	AEROSPACE PROPULSION AND POWER TECHNOLOGY	117,990	127,990	117,990		117,990
			Assured Fuels Initiative		[10,000]			

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0603231F	24	CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOC	28,558	35,558	28,558	1,000	29,558
			Variable transmittal vision		[3,000]		[1,000]	
			Force health protection genotyping		[1,500]			
			Reusable training and operations system for satellite training		[1,000]			
			JSF authentic flight simulator		[1,500]			
3600	0603270F	25	ELECTRONIC COMBAT TECHNOLOGY	23,743	23,743	23,743		23,743
3600	0603311F	26	BALLISTIC MISSILE TECHNOLOGY					
3600	0603400F	27	JOINT UNMANNED COMBAT AIR SYSTEMS (J-UCAS) ADVANCE					
3600	0603401F	28	ADVANCED SPACECRAFT TECHNOLOGY	78,704	84,204	83,704	6,300	85,004
			Thin film amorphous solar cells			[5,000]	[3,200]	
			Laser communications system development		[4,000]		[1,600]	
			Systematic approach to radiation hardened electronics		[1,500]		[1,500]	
3600	0603422F	29	GLOBAL POSITIONING SYSTEM (GPS) EXTENSION PROGRAM	70,758	758		-70,758	
			GPS extension			[-70,758]	[-70,758]	
			Program reduction - High Integrity GPS		[-70,000]			
3600	0603444F	30	MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	5,237	15,237	5,237	5,200	10,437
			High Accuracy Network Determination System		[10,000]		[5,200]	
3600	0603500F	31	MULTI-DISCIPLINARY ADVANCED DEVELOPMENT SPACE TECI					
3600	0603601F	32	CONVENTIONAL WEAPONS TECHNOLOGY	16,904	16,904	16,904		16,904
3600	0603605F	33	ADVANCED WEAPONS TECHNOLOGY	43,999	46,999	43,999	2,400	46,399
			Satellite active imaging national testbed		[3,000]		[2,400]	
3600	0603789F	34	C3I ADVANCED DEVELOPMENT	27,357	27,357	29,357	2,000	29,357
			Optical interconnects research			[2,000]	[2,000]	
3600	0603801F	35	SPECIAL PROGRAMS					
3600	0603924F	36	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	3,815	3,815	3,815		3,815
3600	0207418F	37	TACTICAL AIRBORNE CONTROL SYSTEMS					
3600	0301555F	38	CLASSIFIED PROGRAMS	[ ]	[ ]	[ ]		[ ]
3600	0301556F	39	SPECIAL PROGRAM	[ ]	[ ]	[ ]		[ ]
3600	0603260F	40	INTELLIGENCE ADVANCED DEVELOPMENT	4,930	4,930	4,930		4,930

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(Dollars in Thousands)

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3600	0603287F	41	PHYSICAL SECURITY EQUIPMENT	466	466	466		466
3600	0603421F	42	NAVSTAR GLOBAL POSITIONING SYSTEM III	587,226	437,226	587,226	-100,000	487,226
			Program delay		[-150,000]		[-100,000]	
3600	0603430F	43	ADVANCED EHF MILSATCOM (SPACE)	603,179	703,179	603,179		603,179
			Program Increase		[100,000]			
3600	0603432F	44	POLAR MILSATCOM (SPACE)	178,754	178,754	178,754		178,754
3600	0603438F	45	SPACE CONTROL TECHNOLOGY	37,604	62,604	87,604	25,000	62,604
			Self aware - Space situational awareness		[25,000]	[50,000]	[25,000]	
3600	0603742F	46	COMBAT IDENTIFICATION TECHNOLOGY	26,054	26,054	26,054		26,054
3600	0603790F	47	NATO RESEARCH AND DEVELOPMENT	4,280	4,280	4,280		4,280
3600	0603791F	48	INTERNATIONAL SPACE COOPERATIVE R&D	619	619	619		619
3600	0603845F	49	TRANSFORMATIONAL SATCOM (TSAT)	963,585	963,585	963,585	-150,000	813,585
			TSAT program growth				[-150,000]	
3600	0603850F	50	INTEGRATED BROADCAST SERVICE	21,192	21,192	21,192		21,192
3600	0603851F	51	INTERCONTINENTAL BALLISTIC MISSILE	26,519	26,519	26,519		26,519
3600	0603854F	52	WIDEBAND GAPFILLER SYSTEM RDT&E (SPACE)	19,213	19,213	19,213		19,213
3600	0603858F	53	SPACE RADAR			80,000		
			Space radar technology study			[80,000]		
3600	0603859F	54	POLLUTION PREVENTION	2,838	2,838	2,838		2,838
3600	0603860F	55	JOINT PRECISION APPROACH AND LANDING SYSTEMS	7,544	7,544	7,544		7,544
3600	0604015F	56	NEXT GENERATION BOMBER					
3600	0604327F	57	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTI					
3600	0604400F	58	JOINT UNMANNED COMBAT AIR SYSTEMS (J-UCAS) ADVANCE					
3600	0604855F	59	OPERATIONALLY RESPONSIVE LAUNCH					
3600	0604856F	60	COMMON AERO VEHICLE (CAV)	32,806	32,806		-32,806	
			CAV			[-32,806]	[-32,806]	
3600	0604857F	61	OPERATIONALLY RESPONSIVE SPACE	87,032	117,032	102,032	6,100	93,132
			Program increase		[30,000]	[15,000]	[6,100]	
3600	0207423F	62	ADVANCED COMMUNICATIONS SYSTEMS					

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(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3601	0305178F	63	NATIONAL POLAR-ORBITING OPERATIONAL ENVIRONMENTAL	334,871	334,871	334,871		334,871
3600	0603840F	64	GLOBAL BROADCAST SERVICE (GBS)	29,407	29,407	29,407		29,407
3600	0604012F	65	JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS)					
3600	0604222F	66	NUCLEAR WEAPONS SUPPORT	20,319	20,319	20,319		20,319
3600	0604226F	67	B-1B	159,126	159,126	159,126	-15,000	144,126
			Program execution for vertical situation display				[-15,000]	
3600	0604233F	68	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	12,622	12,622	12,622		12,622
3600	0604239F	69	F-22					
3600	0604240F	70	B-2 ADVANCED TECHNOLOGY BOMBER	244,019	251,219	282,019	43,800	287,819
			Transfer from APAF 23 for restructured radar modernization			[38,000]	[38,000]	
			Small Diameter Bomb integration		[7,200]		[5,800]	
3600	0604261F	71	PERSONNEL RECOVERY SYSTEMS	290,059	136,759	136,759	-86,059	204,000
			CSAR-X		[-153,300]	[-153,300]	[-86,059]	
3600	0604270F	72	ELECTRONIC WARFARE DEVELOPMENT	101,649	101,649	101,649		101,649
3600	0604280F	73	JOINT TACTICAL RADIO					
3600	0604287F	74	PHYSICAL SECURITY EQUIPMENT	34	34	34		34
3600	0604329F	75	SMALL DIAMETER BOMB (SDB)	145,191	145,191	145,191		145,191
3600	0604421F	76	COUNTERSPACE SYSTEMS	53,412	58,412	63,612	9,000	62,412
			Space control test		[5,000]	[5,200]	[4,000]	
			RAIDRS Block 20			[5,000]	[5,000]	
3600	0604425F	77	SPACE SITUATION AWARENESS SYSTEMS	187,804	197,604	240,104	9,800	197,604
			Space based SSA			[35,000]		
			Space fence			[9,800]	[9,800]	
			JSIDS			[7,500]		
3600	0604429F	78	AIRBORNE ELECTRONIC ATTACK	20,007	20,007	20,007		20,007
3600	0604441F	79	SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD	587,004	714,604	687,004		587,004
			SBIRS GEO-4			[100,000]		
			MCS-B Upgrade		[27,600]			
			Program increase		[100,000]			

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0604443F	80	ALTERNATIVE INFRARED SPACE SYSTEM (AIRSS)	230,887	29,987		-155,000	75,887
			Program reduction		[-200,900]	[-230,887]	[-155,000]	
3600	0604600F	81	MUNITIONS DISPENSER DEVELOPMENT					
3600	0604602F	82	ARMAMENT/ORDNANCE DEVELOPMENT	1,985	6,985	1,985	1,200	3,185
			Internal 1000 pound warhead tech demo		[5,000]		[1,200]	
3600	0604604F	83	SUBMUNITIONS	1,988	1,988	1,988		1,988
3600	0604617F	84	AGILE COMBAT SUPPORT	10,623	10,623	10,623		10,623
3600	0604618F	85	JOINT DIRECT ATTACK MUNITION					
3600	0604706F	86	LIFE SUPPORT SYSTEMS	12,649	12,649	12,649		12,649
3600	0604735F	87	COMBAT TRAINING RANGES	17,657	17,657	17,657		17,657
3600	0604740F	88	INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A)	189	7,189	189	4,000	4,189
			Distributed mission interoperability toolkit		[7,000]		[4,000]	
3600	0604750F	89	INTELLIGENCE EQUIPMENT	1,469	1,469	1,469		1,469
3600	0604762F	90	COMMON LOW OBSERVABLES VERIFICATION SYSTEM (CLOV					
3600	0604800F	91	JOINT STRIKE FIGHTER (JSF)	1,780,874	1,895,874	2,001,174	98,450	1,879,324
			Excessive unearned award fee carry over			[-19,700]	[-8,550]	
			Continue competitive engine development		[240,000]	[240,000]	[240,000]	
			Program decrease		[-125,000]		[-133,000]	
3600	0604851F	92	INTERCONTINENTAL BALLISTIC MISSILE					
3600	0604853F	93	EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE					
3600	0605011F	94	RDT&E FOR AGING AIRCRAFT	17,021	21,521	17,021	1,600	18,621
			Enhanced smart triple ejector rack		[4,500]		[1,600]	
3600	0605807F	95	TEST AND EVALUATION SUPPORT	3,044	3,044	3,044		3,044
3600	0207434F	96	LINK-16 SUPPORT AND SUSTAINMENT	199,363	199,363	199,363	-3,000	196,363
			Objective Gateway - Core contract award				[-3,000]	
3600	0207443F	97	FAMILY OF INTEROPERABLE OPERATIONALPICTURES (FIOP)					
3600	0207450F	98	E-10 SQUADRONS	39,703	39,703	39,703		39,703
3600	0207451F	99	SINGLE INTEGRATED AIR PICTURE (SIAP)	4,976	4,976	4,976		4,976

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0207701F	100	FULL COMBAT MISSION TRAINING	87,096	87,096	87,096	-15,000	72,096
			F-15/F-16 simulator integration development				[-15,000]	
3600	0305176F	101	COMBAT SURVIVOR EVADER LOCATOR					
3600	0401138F	102	JOINT CARGO AIRCRAFT (JCA)	42,368	42,368	42,368	-21,368	21,000
			Unjustified request				[-21,368]	
3600	0401318F	103	CV-22	16,688	16,688	16,688		16,688
3600	0604256F	104	THREAT SIMULATOR DEVELOPMENT	39,892	39,892	39,892		39,892
3600	0604759F	105	MAJOR T&E INVESTMENT	59,064	65,064	59,064	1,600	60,664
			FPS-16 radar mobilization upgrade		[6,000]		[1,600]	
3600	0605101F	106	RAND PROJECT AIR FORCE	30,999	30,999	30,999		30,999
3600	0605306F	107	RANCH HAND II EPIDEMIOLOGY STUDY					
3600	0605502F	108	SMALL BUSINESS INNOVATION RESEARCH					
3600	0605712F	109	INITIAL OPERATIONAL TEST & EVALUATION	30,203	30,203	30,203		30,203
3600	0605807F	110	TEST AND EVALUATION SUPPORT	737,558	737,558	737,558	-15,000	722,558
			Execution				[-15,000]	
3600	0605860F	111	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	15,145	15,145	28,845	4,000	19,145
			BMRST			[13,700]	[4,000]	
3600	0605864F	112	SPACE TEST PROGRAM (STP)	47,430	47,430	47,430		47,430
3600	0605976F	113	FACILITIES RESTORATION AND MODERNIZATION - TEST AND	59,131	59,131	59,131		59,131
3600	0605978F	114	FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT	30,865	31,115	30,865		30,865
			Low profile arresting gear		[250]			
3600	0804731F	115	GENERAL SKILL TRAINING					
3600	0909999F	116	FINANCING FOR CANCELLED ACCOUNT ADJUSTMENTS					
3600	1001004F	117	INTERNATIONAL ACTIVITIES	4,041	4,041	4,041		4,041
3600	0605024F	118	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	10,930	10,930	10,930		10,930
3600	0605798F	119	ANALYSIS SUPPORT GROUP	[ ]	[ ]	[ ]		[ ]
3600	0101113F	120	B-52 SQUADRONS	41,916	41,916	41,916		41,916
3600	0101120F	121	ADVANCED CRUISE MISSILE					
3600	0101122F	122	AIR-LAUNCHED CRUISE MISSILE (ALCM)	4,672	4,672	4,672		4,672

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0101313F	123	STRAT WAR PLANNING SYSTEM - USSTRATCOM	20,340	20,340	20,340		20,340
3600	0101314F	124	NIGHT FIST - USSTRATCOM	5,296	5,296	5,296		5,296
3600	0101815F	125	ADVANCED STRATEGIC PROGRAMS	[ ]	[ ]	[ ]		[ ]
3600	0102326F	126	REGION/SECTOR OPERATION CONTROL CENTER MODERNIZ/	23,495	23,495	23,495		23,495
3600	0203761F	127	WARFIGHTER RAPID ACQUISITION PROCESS (WRAP) RAPID T	14,245	14,245	14,245		14,245
3600	0205219F	128	MQ-9 UAV	61,069	61,069	75,069	3,200	64,269
			Upgrade MQ-9 SIGINT payload			[10,000]		
			Predator trainer upgrade			[4,000]	[3,200]	
3600	0207131F	129	A-10 SQUADRONS	1,963	3,963	1,963		1,963
			Computer modeling and prediction of wing spar cracking		[2,000]			
3600	0207133F	130	F-16 SQUADRONS	90,620	90,620	90,620	-20,000	70,620
			Program execution				[-20,000]	
3600	0207134F	131	F-15E SQUADRONS	101,251	101,251	101,251		101,251
3600	0207136F	132	MANNED DESTRUCTIVE SUPPRESSION					
3600	0207138F	133	F-22A SQUADRONS	743,593	743,593	743,593		743,593
3600	0207141F	134	F-117A SQUADRONS					
3600	0207161F	135	TACTICAL AIM MISSILES	7,927	7,927	7,927		7,927
3600	0207163F	136	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)	36,838	36,838	36,838	-3,200	33,638
			JDRADM premature request				[-3,200]	
3600	0207170F	137	JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS)	[ ]	[ ]	[ ]		[ ]
3600	0207224F	138	COMBAT RESCUE AND RECOVERY					
3600	0207247F	139	AF TENCAP	11,526	11,526	11,526		11,526
3600	0207248F	140	SPECIAL EVALUATION PROGRAM					
3600	0207253F	141	COMPASS CALL	4,603	4,603	4,603		4,603
3600	0207268F	142	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	139,042	139,042	139,042		139,042
3600	0207277F	143	CSAF INNOVATION PROGRAM		3,000			
			Hawaii National Guard communications support environment		[3,000]			
3600	0207325F	144	JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)	12,152	12,152	12,152		12,152

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0207410F	145	AIR & SPACE OPERATIONS CENTER (AOC)	111,557	111,557	111,557	-10,500	101,057
			Space C2 operations - Reduction for Space C2 System only - premature request				[-10,500]	
3600	0207412F	146	CONTROL AND REPORTING CENTER (CRC)	16,505	16,505	16,505		16,505
3600	0207417F	147	AIRBORNE WARNING AND CONTROL SYSTEM (AWACS)	152,721	152,721	152,721		152,721
3600	0207418F	148	TACTICAL AIRBORNE CONTROL SYSTEMS	3,387	3,387	3,387		3,387
3600	0207423F	149	ADVANCED COMMUNICATIONS SYSTEMS	33,584	33,584	33,584		33,584
3600	0207424F	150	EVALUATION AND ANALYSIS PROGRAM	650,608	650,608	650,608		650,608
3600	0207433F	151	ADVANCED PROGRAM TECHNOLOGY					
3600	0207438F	152	THEATER BATTLE MANAGEMENT (TBM) C4I	9,961	9,961	9,961		9,961
3600	0207445F	153	FIGHTER TACTICAL DATA LINK	39,545	39,545	39,545		39,545
3600	0207446F	154	BOMBER TACTICAL DATA LINK	37,130	37,130	37,130		37,130
3600	0207448F	155	C2ISR TACTICAL DATA LINK	1,809	1,809	1,809		1,809
3600	0207449F	156	COMMAND AND CONTROL (C2) CONSTELLATION	45,049	45,049	45,049		45,049
3600	0207581F	157	JOINT SURVEILLANCE/TARGET ATTACK RADAR SYSTEM (JST.	65,924	65,924	341,324		65,924
			JSTARS radar technology insertion program (RTIP) backfit			[275,400]		
3600	0207590F	158	SEEK EAGLE	22,969	22,969	22,969		22,969
3600	0207591F	159	ADVANCED PROGRAM EVALUATION					
3600	0207601F	160	USAF MODELING AND SIMULATION	23,044	25,044	23,044	1,600	24,644
			Crowd behavior modeling		[2,000]		[1,600]	
3600	0207605F	161	WARGAMING AND SIMULATION CENTERS	6,490	6,490	6,490		6,490
3600	0207697F	162	DISTRIBUTED TRAINING AND EXERCISES	7,522	7,522	7,522		7,522
3600	0208006F	163	MISSION PLANNING SYSTEMS	105,371	105,371	105,371		105,371
3600	0208021F	164	INFORMATION WARFARE SUPPORT	12,111	12,111	12,111		12,111
3600	0208161F	165	SPECIAL EVALUATION SYSTEM	760,312	760,312	910,312		760,312
			Special evaluation system			[150,000]		
3600	0301310F	166	NATIONAL AIR INTELLIGENCE CENTER	[ ]	[ ]	[ ]		[ ]
			Missile related systems threat representations		[2,500]			
3600	0301314F	167	COBRA BALL	[ ]	[ ]	[ ]		[ ]

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0301315F	168	MISSILE AND SPACE TECHNICAL COLLECTION	[ ]	[ ]	[ ]	[1,500]	[ ]
			Classified program			[1,500]	[1,500]	
3600	0301324F	169	FOREST GREEN	[ ]	[ ]	[ ]		[ ]
3600	0301386F	170	GDIP COLLECTION MANAGEMENT	[ ]	[ ]	[ ]		[ ]
3600	0302015F	171	E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC)	19,529	19,529	19,529		19,529
3600	0303112F	172	AIR FORCE COMMUNICATIONS (AIRCOM)	2,022	2,022	2,022		2,022
3600	0303131F	173	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETW	103,846	103,846	103,846	-15,000	88,846
			Minuteman MEECN				[-15,000]	
3600	0303140F	174	INFORMATION SYSTEMS SECURITY PROGRAM	229,657	233,577	229,657	-45,047	184,610
			Applications Security Initiative		[3,920]			
			Unjustified program growth				[-45,047]	
3600	0303141F	175	GLOBAL COMBAT SUPPORT SYSTEM	10,631	10,631	10,631		10,631
3600	0303150F	176	GLOBAL COMMAND AND CONTROL SYSTEM	3,397	13,397	3,397	8,000	11,397
			Command and control service level management program		[10,000]		[8,000]	
3600	0303158F	177	JOINT COMMAND AND CONTROL PROGRAM (JC2)	5,841	5,841	5,841		5,841
3600	0303601F	178	MILSATCOM TERMINALS	388,491	388,491	388,491		388,491
3600	0304111F	179	SPECIAL ACTIVITIES	[ ]	[ ]	[ ]	[63,700]	[ ]
			Classified program			[20,000]		
			Classified program			[44,100]	[63,700]	
			EMP protected computer hardware		[2,000]			
3600	0304260F	180	AIRBORNE SIGINT ENTERPRISE	139,627	128,727	139,627	-10,000	129,627
			Airborne signal intelligence enterprise		[-10,900]		[-10,000]	
3600	0304311F	181	SELECTED ACTIVITIES	[ ]	[ ]	[ ]	[26,000]	[ ]
			Classified program			[206,600]	[26,000]	
3600	0304348F	182	ADVANCED GEOSPATIAL INTELLIGENCE (AGI)	[ ]	[ ]	[ ]		[ ]
3600	0305099F	183	GLOBAL AIR TRAFFIC MANAGEMENT (GATM)	6,681	6,681	6,681		6,681
3600	0305110F	184	SATELLITE CONTROL NETWORK (SPACE)	27,256	27,256	27,256		27,256
3600	0305111F	185	WEATHER SERVICE	39,747	39,747	45,747	800	40,547
			Operations risk management visualization & integration (ORM-VIZ)			[6,000]	[800]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0305114F	186	AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM (	4,672	4,672	4,672		4,672
3600	0305116F	187	AERIAL TARGETS	7,376	7,376	7,376		7,376
3600	0305124F	188	SPECIAL APPLICATIONS PROGRAM	[ ]	[ ]	[ ]		[ ]
3600	0305127F	189	FOREIGN COUNTERINTELLIGENCE ACTIVITIES	[ ]	[ ]	[ ]		[ ]
3600	0305128F	190	SECURITY AND INVESTIGATIVE ACTIVITIES	829	829	829		829
3600	0305142F	191	APPLIED TECHNOLOGY AND INTEGRATION	[ ]	[ ]	[ ]		[ ]
3600	0305159F	192	DEFENSE RECONNAISSANCE SUPPORT ACTIV (SPACE)	[ ]	[ ]	[ ]	[-642,481]	[ ]
			Classified program			[190,000]		
			Classified program			[-293,500]	[-293,500]	
			Classified program		[-1,131,850]	[-1,131,900]	[-1,093,981]	
			Classified program - prior year savings			[-700,000]		
			Classified program - prior year savings			[-50,000]		
			Classified program		[-30,000]		[100,000]	
			California Space Infrastructure Project		[1,000]			
			Termination liability				[400,000]	
			Classified program				[200,000]	
			Technology sustainment				[45,000]	
3600	0305160F	193	DEFENSE METEOROLOGICAL SATELLITE PROGRAM (SPACE)					
3600	0305164F	194	NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)	93,267	156,467	153,267	63,200	156,467
			GPS user equipment		[63,200]	[60,000]	[63,200]	
3600	0305165F	195	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTI	120,931	160,931	120,931		120,931
			Program increase		[40,000]			
3600	0305172F	196	COMBINED ADVANCED APPLICATIONS	[ ]	[ ]	[ ]		[ ]
3600	0305173F	197	SPACE AND MISSILE TEST AND EVALUATION CENTER	3,089	3,089	3,089		3,089
3600	0305174F	198	SPACE WARFARE CENTER	1,678	1,678	1,678		1,678
3600	0305182F	199	SPACELIFT RANGE SYSTEM(SPACE)	27,300	27,300	27,300		27,300
3600	0305193F	200	INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS (IO)	1,134	1,134	1,134		1,134
3600	0305202F	201	DRAGON U-2					
3600	0305206F	202	AIRBORNE RECONNAISSANCE SYSTEMS	64,869	64,869	64,869		64,869

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0305207F	203	MANNED RECONNAISSANCE SYSTEMS	12,672	18,672	12,672	2,400	15,072
			Rivet Joint		[6,000]		[2,400]	
3600	0305208F	204	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	107,117	107,117	107,117		107,117
3600	0305219F	205	MQ-1 PREDATOR A UAV	22,296	22,296	32,296		22,296
			Upgrade MQ-1 SIGINT payload			[10,000]		
3600	0305220F	206	GLOBAL HAWK UAV	298,501	298,501	298,501	-15,000	283,501
			Execution				[-15,000]	
3600	0305221F	207	NETWORK-CENTRIC COLLABORATIVE TARGETING	8,641	8,641	33,641		8,641
			NCCT			[25,000]		
3600	0305887F	208	INTELLIGENCE SUPPORT TO INFORMATION WARFARE	5,362	5,362	5,362		5,362
3600	0305906F	209	NCMC - TW/AA SYSTEM	11,882	11,882	11,882		11,882
3600	0305910F	210	SPACETRACK (SPACE)					
3600	0305913F	211	NUDET DETECTION SYSTEM (SPACE)	38,974	38,974	38,974		38,974
3600	0305917F	212	SPACE ARCHITECT					
3600	0305924F	213	NATIONAL SECURITY SPACE OFFICE	10,821	10,821	17,821		10,821
			NSSO			[7,000]		
3600	0305940F	214	SPACE SITUATION AWARENESS OPERATIONS	23,980	23,980	40,780		23,980
			SAA operations			[16,800]		
3600	0307141F	215	NASS, IO TECHNOLOGY INTEGRATION & TOOL DEV	15,681	15,681	15,681		15,681
3600	0308699F	216	SHARED EARLY WARNING (SEW)	3,152	3,152	3,152		3,152
3600	0401115F	217	C-130 AIRLIFT SQUADRON	188,069	195,169	191,069	3,600	191,669
			C-130 de-icing system			[3,000]	[1,200]	
			Automated maintenance		[7,100]		[2,400]	
3600	0401119F	218	C-5 AIRLIFT SQUADRONS (IF)	203,585	205,585	203,585	-23,400	180,185
			Inductive thermography equipment		[2,000]		[1,600]	
			C-5 RERP - production delay and program restructure				[-25,000]	
3600	0401130F	219	C-17 AIRCRAFT (IF)	181,734	181,734	181,734		181,734
3600	0401132F	220	C-130J PROGRAM	74,223	74,223	74,223		74,223
3600	0401133F	221	AEROMEDICAL EVACUATION					

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0401134F	222	LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)	19,324	19,324	19,324		19,324
3600	0401218F	223	KC-135S	8,766	8,766	8,766		8,766
3600	0401219F	224	KC-10S	36,790	36,790	36,790	-23,000	13,790
			SDD AMP contract award delay				[-23,000]	
3600	0401221F	225	KC-135 TANKER REPLACEMENT	314,454	114,454	174,454		314,454
			Use prior year funds for execution			[-140,000]		
			Program decrease		[-200,000]			
3600	0401314F	226	OPERATIONAL SUPPORT AIRLIFT	4,868	4,868	4,868		4,868
3600	0401839F	227	AIR MOBILITY TACTICAL DATA LINK					
3600	0408011F	228	SPECIAL TACTICS / COMBAT CONTROL	5,225	7,925	8,825	2,900	8,125
			Combat casualty management system for AFSOC			[3,600]	[2,900]	
			Biostatic protective clothing		[2,700]			
3600	0702207F	229	DEPOT MAINTENANCE (NON-IF)	1,510	1,510	1,510		1,510
3600	0702806F	230	ACQUISITION AND MANAGEMENT SUPPORT	22,317	24,617	22,317		22,317
			Combat support information security		[2,300]			
3600	0708011F	231	INDUSTRIAL PREPAREDNESS	39,906	44,406	41,906	3,600	43,506
			Laser materials processing			[2,000]	[2,000]	
			Production of nanocomposites for aerospace applications		[4,500]		[1,600]	
3600	0708012F	232	LOGISTICS SUPPORT ACTIVITIES					
3600	0708610F	233	LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	114,176	114,176	114,176		114,176
3600	0708611F	234	SUPPORT SYSTEMS DEVELOPMENT	11,076	26,076	11,076	7,800	18,876
			SOF logistics improvement		[4,000]		[3,000]	
			Strategic airlift modeling		[4,000]		[2,800]	
			Hydrogen fueling infrastructure- Lackland AFB		[4,000]			
			Low emission hybrid electric vehicle engine propulsion		[5,000]		[2,000]	
3600	0804757F	235	JOINT NATIONAL TRAINING CENTER	3,128	3,128	3,128		3,128
3600	0808716F	236	OTHER PERSONNEL ACTIVITIES	115	115	115		115
3600	0901202F	237	JOINT PERSONNEL RECOVERY AGENCY	5,377	5,377	5,377		5,377
3600	0901212F	238	SERVICE-WIDE SUPPORT (NOT OTHERWISE ACCOUNTED FOI	6,495	6,495	6,495		6,495

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
3600	0901218F	239	CIVILIAN COMPENSATION PROGRAM	8,070	8,070	8,070		8,070
3600	0901220F	240	PERSONNEL ADMINISTRATION	16,832	16,832	16,832		16,832
3600	0901538F	241	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOP	47,105	47,105	47,105	-10,000	37,105
			DEAMS contract award				[-10,000]	
3600		999	CLASSIFIED PROGRAMS	9,824,956	10,099,956	8,111,756	-551,281	9,273,675
			Total, RDT&E Air Force	**26,711,940**	**25,738,960**	**25,581,989**	**-1,019,419**	**25,692,521**

Global positioning system III

The budget request included $587.2 million for global positioning system III (GPS III).

The House bill would authorize $437.2 million in PE63421F for GPS III.

The Senate amendment would authorize $587.2 million, the amount of the budget request.

The conferees agree to authorize $487.2 million, a reduction of $100.0 million below the budget request.

The conferees fully support the need for the GPS III program. There are indications, however, that challenges between the development and acquisition plans for space vehicles, ground systems, and user equipment may be increasing. The conferees are concerned that GPS III space systems may be ahead of the development and acquisition plans for ground systems and user equipment. To avoid this potential disconnect the conferees urge the Department of Defense (DOD) and the Air Force to request adequate funding to keep the ground operational control systems and space segments fully synchronized and to support timely development and fielding of the user equipment.

The block approach adopted by the GPS III program office is a good step toward reducing technical risks and ensuring that the program stays on budget and schedule. However, the conferees are concerned that capabilities like spot-beams and cross-links may not be properly phased to support the warfighter requirements or may no longer be required. The conferees urge the DOD and the Secretary of the Air Force to examine the GPS acquisition strategy and warfighter requirements to determine the appropriate next-generation capabilities to include in each subsequent block to meet user needs, while maintaining schedule, cost, and appropriate level of technical risk.

The GPS satellite constellation provides accurate position, navigation, and timing (PNT) to support military, civil, and commercial activities and enterprises throughout the United States and the world. The conferees note the budget request included funds for other PNT capabilities and augmentations such as the GPS extension program, commonly known as iGPS. The conferees are concerned that these investment decisions are being made without an integrated PNT architecture. The conferees direct the DOD, as one of the co-chairs of the PNT Executive Committee, to submit a report to the congressional defense committees that includes future PNT-related investments for the next 5 years and an integrated PNT architecture plan. The report should be submitted within 6 months from the date of enactment of this Act.

Transformational communication satellite system

The budget request included $964.0 million in PE63845F for the transformational communication satellite system (TSAT).

The House bill would authorize the budget request.

The Senate amendment would authorize the budget request.

The conferees agree to authorize $814.0 million in PE63845F for the TSAT, a reduction of $150.0 million below the budget request. The conferees fully support the TSAT program and have made this reduction with no prejudice to the program.

Space Radar

The budget request included funds for the Space Radar program, but the amount requested is classified.

The House bill would authorize $30.0 million below the requested amount in a classified line item for Space Radar.

The Senate amendment would authorize $20.0 million in a classified line item and would authorize $80.0 million in PE63858F for a Space Radar technology study.

The conferees agree to authorize funding for Space Radar capabilities in a classified line item.

The conferees continue to support space-based radar capabilities to meet both warfighter and intelligence community requirements. However, the conferees remain concerned about the overall approach to radar capabilities in space and, in particular, about the Space Radar program of record. These concerns include requirements scope, technology risk, the acquisition plan, and the affordability of a space radar program. The conferees continue to strongly support a joint program and a joint approach to requirements development, concept of operations, and tasking, processing, and exploitation regimes.

The conferees are aware of several alternative space-based radar concepts that have been proposed over the past year that could lower technical risk and development costs. In addition, the administration has recently proposed a new, incremental acquisition strategy for the Space Radar program designed to reduce program risk. As a result of these developments, the conferees direct the Secretary of Defense and the Director of National Intelligence to prepare a plan for the analysis of space-based radar alternatives and a plan for expenditure of funds for fiscal year 2008. Of the amount authorized by the conferees for fiscal year 2008, only $40.0 million shall be available for expenditure until 30 days after the submission of this plan for an analysis of alternatives.

The plan for an analysis of alternatives should bound the options related to space-based radar technology and system alternatives. It must consider all programs and activities (at all levels of classification) that can contribute to the missions that space-based radar systems would support. Once the options are bounded, the plan should outline a strategy for evaluating the space-based radar options. The plan should describe how the Department of Defense proposes to allocate the remaining fiscal year 2008 funding to achieve the objectives described below and to support any other space-based radar related activities. The plan for an analysis of alternatives should be submitted to the congressional defense and intelligence committees by March 1, 2008.

The plan for an analysis of space-based radar alternatives should be a roadmap for evaluating the options for space and ground segments. The conferees expect the plan to identify the schedule and resources necessary to evaluate: the maturity of the various radar technologies and design concepts; system and architecture performance; requirements; technology producibility; industry capacity; cost and risk estimates for the proposed options; proposed acquisition plans; concepts of operations; how other programs can be leveraged to meet requirements; and any other matters

identified by the Secretary of Defense and the Director of National Intelligence.

The conferees expect that the Department will perform the work outlined in the plan for an analysis of space-based radar alternatives before establishing a new program baseline for space radar capabilities and that no acquisition decision will be made in fiscal year 2008.

Additional direction and information is contained in the classified annex to this report.

Alternate infrared satellite system

The budget request included $230.9 million in PE64443F for the alternative infrared satellite system (AIRSS).

The House bill would authorize a decrease of $200.9 million in PE64443F for AIRSS.

The Senate amendment would authorize no funding for AIRSS.

The conferees agree to authorize $75.9 million for AIRSS in PE64443F.

The conferees understand the Space Based Infrared System (SBIRS) geosynchronous (GEO) program has experienced additional problems over the course of the summer. Nevertheless, the conferees are still convinced that the AIRSS program as it was described in the budget request is not the backup program that was originally conceived to serve as an alternative to SBIRS as directed in the SBIRS recertification acquisition decision memorandum. In addition, the current AIRSS concept is not a suitable competitor for the fourth SBIRS GEO satellite.

The conferees acknowledge that a follow-on program for SBIRS will be needed in the future and believe that the AIRSS program should focus on maturing technology and focus on the next generation of infrared sensor technology. The conferees expect the Air Force to develop AIRSS as a follow-on program at an appropriate time in the future. To that end, the conferees expect the budget request for AIRSS for fiscal year 2009 to include a clear plan to support research and development on technologies that could be evolved into the next generation of non-imaging infrared systems.

Recognizing that a backup plan may still be needed for SBIRS GEO, the conferees direct the Air Force to study the cost and feasibility of integrating a SBIRS highly elliptical orbit sensor onto a GEO satellite bus. The results of this study should be provided with the fiscal year 2009 budget request.

DEFENSE-WIDE

Research, Development, Test, and Evaluation, Defense-wide overview

The budget request included $20,559.9 million in Research, Development, Test, and Evaluation, Defense-wide for the Department of Defense.

The House bill would authorize $20,176.0 million.

The Senate amendment would authorize $21,331.5 million.

The conferees agree to authorize $20,033.6 million.

Unless noted explicitly in the statement of managers, all changes are made without prejudice.

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
			RESEARCH, DEVELOPMENT, TEST & EVALUATION, DEFENSE-WIDE					
0400	0601000BR	1	DTRA BASIC RESEARCH INITIATIVE	5,000	10,000	5,000	3,200	8,200
			Combating weapons of mass destruction		[5,000]		[3,200]	
0400	0601101E	2	DEFENSE RESEARCH SCIENCES	152,622	160,622	152,622	8,000	160,622
			Semiconductor Focus Research		[8,000]		[8,000]	
0400	0601111D8Z	3	GOVERNMENT/INDUSTRY COSPONSORSHIP OF UNIVERSITY I			5,000		
			Semiconductor Focus Research Center program			[5,000]		
0400	0601114D8Z	4	DEFENSE EXPERIMENTAL PROGRAM TO STIMULATE COMPET	5,878	5,878	5,878		5,878
0400	0601120D8Z	5	NATIONAL DEFENSE EDUCATION PROGRAM	44,372	44,372	44,372		44,372
			Materials World Modules		[4,500]			
			Science, Mathematics, and Research for Transformation		[3,000]			
			Preengineering Modules		[-9,500]			
			National Science and Engineering Faculty Fellowships		[2,000]			
0400	0601384BP	6	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	72,003	81,253	75,003	-50	71,953
			Superstructural particle evaluation			[3,000]		
			CBDP initiative basic research		[8,000]		[4,000]	
			Biodefense technologies - Polymedix		[1,250]		[1,250]	
			CB 1 -- Unjustified TCTI funding				[-5,300]	
0400	0602000D8Z	7	JOINT MUNITIONS TECHNOLOGY	15,542	15,542	15,542		15,542
0400	0602227D8Z	8	MEDICAL FREE ELECTRON LASER		18,000	8,000	2,400	2,400
			Program increase		[18,000]	[8,000]	[2,400]	
0400	0602228D8Z	9	HISTORICALLY BLACK COLLEGES AND UNIVERSITIES (HBCU)	15,150	15,150	15,150		15,150
0400	0602234D8Z	10	LINCOLN LABORATORY RESEARCH PROGRAM	29,524	29,524	29,524		29,524
0400	0602303E	11	INFORMATION & COMMUNICATIONS TECHNOLOGY	229,739	238,739	229,739		229,739
			Document exploitation		[8,000]			
			Intelligent representation analysis (NASEC)		[1,000]			
0400	0602304E	12	COGNITIVE COMPUTING SYSTEMS	179,728	179,728	179,728	-3,931	175,797
			Execution adjustment				[-3,931]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
0400	0602383E	13	BIOLOGICAL WARFARE DEFENSE	99,137	99,137	99,137	-27,075	72,062
			Execution adjustment				[-17,304]	
			Cancellation of Spectral Sensing of Bio-Aerosols (SSBA)				[-9,771]	
0400	0602384BP	14	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	305,327	325,327	309,827	-64,700	240,627
			Chem-bio IR detector			[2,000]	[1,600]	
			Chem-bio protective textile fabric			[1,500]	[800]	
			Chemical agent fate model verification			[1,000]	[1,000]	
			CBDP Initiative applied research		[20,000]		[8,000]	
			TMTI – program delays				[-50,000]	
			CB 2 – Unjustified TCTI funding				[-26,100]	
0400	0602670D8Z	15	HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB)	7,300	7,300	7,300		7,300
0400	0602702E	16	TACTICAL TECHNOLOGY	374,717	374,717	374,717	-47,400	327,317
			Execution adjustment				[-37,024]	
			Cancelation of Waveforms for Active Sensing				[-3,670]	
			Cancellation of SUAVE				[-6,706]	
0400	0602715E	17	MATERIALS AND BIOLOGICAL TECHNOLOGY	306,022	306,022	306,022	-12,151	293,871
			Execution adjustment				[-12,151]	
0400	0602716BR	18	WMD DEFEAT TECHNOLOGY					
0400	0602716E	19	ELECTRONICS TECHNOLOGY	213,529	213,529	213,529	-17,964	195,565
			Execution adjustment				[-17,964]	
0400	0602717BR	20	WMD DEFENSE TECHNOLOGIES					
0400	0602718BR	21	WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES	182,416	182,416	213,916	24,600	207,016
			Blast mitigation & protection analysis			[1,000]	[1,000]	
			Comprehensive national incident management system			[4,000]	[2,400]	
			Fissile material detection research			[26,500]	[21,200]	
0400	0303153K	22	JOINT SPECTRUM CENTER					
0400	1160401BB	23	SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT	21,282	27,132	23,782	2,000	23,282
			Foliage penetration reconnaissance & surveillance		[5,850]	[2,500]	[2,000]	
0400	1160407BB	24	SOF MEDICAL TECHNOLOGY DEVELOPMENT	2,388	2,388	2,388		2,388

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
0400	0603000D8Z	25	INSENSITIVE MUNITIONS - ADVANCED DEVELOPMENT	6,000	6,000	6,000		6,000
0400	0603002D8Z	26	MEDICAL ADVANCED TECHNOLOGY					
0400	0603121D8Z	27	SOF/LIC ADVANCED DEVELOPMENT	32,669	44,669	32,669	12,000	44,669
			Irregular warfare support		[12,000]		[12,000]	
0400	0603122D8Z	28	COMBATING TERRORISM TECHNOLOGY SUPPORT	76,276	84,776	78,276	2,680	78,956
			Arabic language analysis systems			[2,000]		
			Contextual Arabic slang		[3,500]		[1,000]	
			Ruggedized mobile secure body scan		[1,000]		[680]	
			License plate recognition initiative		[1,500]			
			Affordable mid-sized UGV		[2,500]		[800]	
0400	0603160BR	29	COUNTERPROLIFERATION INITIATIVES - PROLIFERATION PRE	213,240	214,740	213,240		213,240
			Radiation hardened nonvolatile memory		[1,500]			
0400	0603175C	30	BALLISTIC MISSILE DEFENSE TECHNOLOGY	118,569	118,569	122,569	-22,000	96,569
			Directly printed electronic components			[4,000]		
			Program decrease		[-10,000]		[-10,000]	
			X Lab Battlespace Laboratory (AMDT #35)		[10,000]			
			Transfer to PE 0603896C (RDDW 86) for execution				[-12,000]	
0400	0603225D8Z	31	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	23,488	23,488	23,488		23,488
0400	0603286E	32	ADVANCED AEROSPACE SYSTEMS	86,385	86,385	86,385	-16,000	70,385
			Execution delays				[-16,000]	
0400	0603287E	33	SPACE PROGRAMS AND TECHNOLOGY	224,551	224,551	224,551	-6,748	217,803
			Cancellation of Micro Electric Propulsion (MEP)				[-6,748]	
0400	0603384BP	34	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCE	232,302	257,302	240,302	-38,000	194,302
			Semiconducting metal oxide sensors			[2,000]	[800]	
			Improved CBR filters			[2,000]	[1,600]	
			Raman chemical ID system			[4,000]	[1,600]	
			CBDP initiative advanced technology development		[25,000]		[8,000]	
			TMTI -- program delays				[-50,000]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
0400	0603618D8Z	35	JOINT ELECTRONIC ADVANCED TECHNOLOGY	9,219	24,219	9,219	15,000	24,219
			Advanced energy storage initiative		[15,000]		[15,000]	
0400	0603648D8Z	36	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	194,352	189,052	194,352	1,600	195,952
			Computerized assisted threat evaluation		[5,000]			
			Distributed network switching		[4,700]		[1,600]	
			Program reduction		[-15,000]			
0400	0603662D8Z	37	NETWORKED COMMUNICATIONS CAPABILITIES	40,000	20,000	40,000	-25,000	15,000
			Program reduction		[-20,000]		[-25,000]	
0400	0603665D8Z	38	BIOMETRICS SCIENCE AND TECHNOLOGY	8,000	8,000	12,000	3,200	11,200
			Standoff biometrics technology			[4,000]	[3,200]	
0400	0603670D8Z	39	HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB)	9,000	21,000	9,000		9,000
			Human systems integration		[12,000]			
0400	0603680D8Z	40	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOC	10,000	10,000	30,000	16,000	26,000
			High performance defense manufacturing technology research			[10,000]	[8,000]	
			Disruptive manufacturing technologies research			[10,000]	[8,000]	
0400	0603711D8Z	41	JOINT ROBOTICS PROGRAM/AUTONOMOUS SYSTEMS	11,256	11,256	11,256		11,256
0400	0603712S	42	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	18,736	24,236	46,736	20,400	39,136
			Emerging critical interconnect technology program		[5,000]	[4,000]	[800]	
			UAV battery technologies			[2,000]	[2,000]	
			Vehicle fuel cell & hydrogen logistics program			[10,000]	[8,000]	
			Solid hydrogen storage initiative			[5,000]	[5,000]	
			Biofuels program			[3,000]	[1,600]	
			Mobile microgrid research			[3,000]	[3,000]	
			Rapid ID of technology sources		[500]			
0400	0603713S	43	DEPLOYMENT AND DISTRIBUTION ENTERPRISE TECHNOLOG'					
0400	0603716D8Z	44	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	68,874	64,874	71,374	800	69,674
			Enhanced water remediation research			[2,500]	[800]	
			Program reduction		[-4,000]			

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
0400	0603720S	45	MICROELECTRONICS TECHNOLOGY DEVELOPMENT AND SUF		14,000		3,200	3,200
			Superlattice nanotechnology		[4,000]		[1,600]	
			Processing alpha tool		[5,000]		[1,600]	
			Supply chain DEV		[5,000]			
0400	0603727D8Z	46	JOINT WARFIGHTING PROGRAM	11,060	11,060	11,060		11,060
0400	0603739E	47	ADVANCED ELECTRONICS TECHNOLOGIES	220,548	220,548	220,548	-20,048	200,500
			Execution adjustment				[-20,048]	
0400	0603745D8Z	48	SYNTHETIC APERTURE RADAR (SAR) COHERENT CHANGE DE	6,500		6,500	-3,000	3,500
			Program decrease		[-6,500]		[-3,000]	
0400	0603750D8Z	49	ADVANCED CONCEPT TECHNOLOGY DEMONSTRATIONS		4,000		3,100	3,100
			Simultaneous field radiation technology		[4,000]		[3,100]	
0400	0603755D8Z	50	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGR/	187,587	187,587	189,587	1,600	189,187
			High performance computing modeling & simulation			[2,000]	[1,600]	
0400	0603760E	51	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS	256,868	256,868	256,868		256,868
0400	0603764E	52	LAND WARFARE TECHNOLOGY	24,711	24,711	24,711	-4,943	19,768
			Execution delays				[-4,943]	
0400	0603765E	53	CLASSIFIED DARPA PROGRAMS	188,188	188,188	188,188		188,188
0400	0603766E	54	NETWORK-CENTRIC WARFARE TECHNOLOGY	151,641	151,641	151,641		151,641
0400	0603767E	55	SENSOR TECHNOLOGY	196,462	196,462	196,462		196,462
0400	0603768E	56	GUIDANCE TECHNOLOGY	127,777	127,777	127,777		127,777
0400	0603769SE	57	DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOF	13,282	13,282	13,282		13,282
0400	0603781D8Z	58	SOFTWARE ENGINEERING INSTITUTE	29,851	29,851	29,851	-3,900	25,951
			DeVenCI				[-3,900]	
0400	0603805S	59	DUAL USE TECHNOLOGY					
0400	0603826D8Z	60	QUICK REACTION SPECIAL PROJECTS	109,514	113,114	127,014	2,000	111,514
			Small craft integrated common operating picture		[1,600]	[1,500]	[800]	
			APS comparative testing			[15,000]		
			APS technical assesament			[1,000]		
			Semiautonomous robotic manipulation		[2,000]		[1,200]	

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2006 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
0400	0603828D8Z	61	JOINT EXPERIMENTATION	112,017	106,517	118,217	-5,440	106,577
			Asymmetric warfare initiative			[1,500]	[800]	
			Cultural & societal modeling & simulation		[3,000]	[3,200]	[2,560]	
			Joint Urban Fires Prototype		[1,500]	[1,500]	[1,200]	
			Program reduction		[-10,000]		[-10,000]	
0400	0603832D8Z	62	JOINT WARGAMING SIMULATION MANAGEMENT OFFICE	37,837	20,037	37,837	-15,000	22,837
			Program decrease		[-17,800]		[-15,000]	
0400	0603941D8Z	63	TEST & EVALUATION SCIENCE & TECHNOLOGY	62,889	62,889	63,889	1,000	63,889
			Test range & resource analysis			[1,000]	[1,000]	
0400	0603942D8Z	64	TECHNOLOGY TRANSFER	2,234	2,234	2,234		2,234
0400	1160402BB	65	SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPM	29,935	47,835	43,935	8,980	38,915
			Advanced generator technologies			[2,000]		
			Portable power sources development			[3,000]	[2,400]	
			Standoff precision guided munitions			[6,000]		
			Advanced tactical airborne C4ISR systems			[3,000]		
			Expendable air drop delivery system		[5,000]		[800]	
			Long endurance unattended ground sensors		[3,200]		[2,080]	
			Tactical wireless battlefield solutions		[2,700]		[2,700]	
			Pulsed energy projectile		[7,000]		[1,000]	
0400	0603161D8Z	66	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPM	38,060	38,060	38,060		38,060
0400	0603228D8Z	67	PHYSICAL SECURITY EQUIPMENT					
0400	0603527D8Z	68	RETRACT LARCH	22,365	22,365	22,365		22,365
0400	0603709D8Z	69	JOINT ROBOTICS PROGRAM	11,860	11,860	11,860		11,860
0400	0603714D8Z	70	ADVANCED SENSOR APPLICATIONS PROGRAM			20,000	18,000	18,000
			Fund ongoing programs - Transfer from RDDW999			[20,000]		
			Fund ongoing programs				[18,000]	
0400	0603851D8Z	71	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PRC	33,199	33,199	33,199		33,199

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2008 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
0400	0603881C	72	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	962,585	1,167,585	1,127,585	55,000	1,017,585
			THAAD		[135,000]	[105,000]		
			Short-range ballistic missile defense		[45,000]	[25,000]	[20,000]	
			Arrow co-production		[25,000]	[25,000]	[25,000]	
			Study of Upper-Tier Missile Program			[10,000]	[10,000]	
0400	0603882C	73	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMEN	2,520,064	2,360,064	2,435,064	-135,000	2,385,064
			European 3rd site construction		[-160,000]	[-85,000]	[-85,000]	
			Transfer to PE 0603896C (RDDW 86) for execution				[-50,000]	
0400	0603883C	74	BALLISTIC MISSILE DEFENSE BOOST DEFENSE SEGMENT	548,759	298,759	348,759	-35,000	513,759
			Airborne Laser		[-250,000]	[-200,000]	[-35,000]	
0400	0603884BP	75	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	57,160	57,160	61,160	1,500	58,660
			Real-time viral agent detectors			[4,000]	[1,500]	
0400	0603884C	76	BALLISTIC MISSILE DEFENSE SENSORS	778,163	728,163	778,163	-169,000	609,163
			Excessive costs		[-50,000]		[-50,000]	
			Transfer to PE 0603896C (RDDW 86) for execution				[-119,000]	
0400	0603886C	77	BALLISTIC MISSILE DEFENSE SYSTEM INTERCEPTOR	227,499	177,499	227,499	-6,646	220,853
			Program reduction		[-50,000]			
			Excessive program support				[-6,646]	
0400	0603888C	78	BALLISTIC MISSILE DEFENSE TEST & TARGETS	586,150	586,150	586,150		586,150
0400	0603889C	79	BALLISTIC MISSILE DEFENSE PRODUCTS					
0400	0603890C	80	BALLISTIC MISSILE DEFENSE SYSTEMS CORE	482,016	432,016	432,016	-65,228	416,788
			BMD systems core		[-50,000]	[-50,000]	[-50,000]	
			Excessive program support				[-15,228]	
0400	0603891C	81	SPECIAL PROGRAMS - MDA	323,250	153,250	173,250	-125,000	198,250
			BMD special programs		[-170,000]	[-150,000]	[-125,000]	

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0400	0603892C	82	AEGIS BMD	1,059,103	1,137,103	1,134,103	65,000	1,124,103
			Aegis BMD				[49,000]	
			SM-3 Production Capability		[20,000]	[20,000]		
			SM-3 Interceptors		[36,000]	[45,000]		
			BSP Upgrade		[22,000]	[10,000]	[16,000]	
0400	0603893C	83	SPACE TRACKING & SURVEILLANCE SYSTEM	331,525	256,525	276,525	-100,000	231,525
			Space tracking & surveillance system		[-75,000]	[-55,000]	[-100,000]	
0400	0603894C	84	MULTIPLE KILL VEHICLE	271,151	229,151	271,151	-62,900	208,251
			Program reduction		[-42,000]			
			Multiple Engagement Payload (MEP) for the Standard Missile-3				[-62,900]	
0400	0603895C	85	BALLISTIC MISSILE DEFENSE SYSTEM SPACE PROGRAMS	27,666	17,666	17,666	-11,000	16,666
			BMD space testbed		[-10,000]	[-10,000]	[-10,000]	
			Space Experimentation Center				[-1,000]	
0400	0603896C	86	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BAT	258,913	258,913	258,913	191,790	450,703
			C2BMC program growth				[-10,000]	
			Excessive program support				[-3,210]	
			Transfer from PE 0603884C (RDDW 76) for execution				[119,000]	
			Transfer from PE 0603882C (RDDW 73) for execution				[50,000]	
			Transfer from PE 0603175C (RDDW 30) for execution				[12,000]	
			Transfer from PE 0603904C (RDDW 89) for execution				[24,000]	
0400	0603897C	87	BALLISTIC MISSILE DEFENSE HERCULES	53,658	53,658	53,658	-834	52,824
			Excessive program support				[-834]	
0400	0603898C	88	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT	48,787	54,787	48,787	948	49,735
			Program Increase		[6,000]		[2,000]	
			Excessive program support				[-1,052]	
0400	0603904C	89	BALLISTIC MISSILE DEFENSE JOINT NATIONAL INTEGRATION	104,012	104,012	104,012	-24,913	79,099
			Excessive program support				[-913]	
			Transfer to PE 0603896C (RDDW 86) for execution				[-24,000]	
0400	0603905C	90	BALLISTIC MISSILE DEFENSE CONCURRENT TEST, TRAINING					

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0400	0603908C	91	REGARDING TRENCH	2,000	2,000	2,000		2,000
0400	0603920D8Z	92	HUMANITARIAN DEMINING	14,013	14,013	14,013		14,013
0400	0603923D8Z	93	COALITION WARFARE	14,047	14,047	14,047	-4,000	10,047
			Reduce program growth				[-4,000]	
0400	0604016D8Z	94	DEPARTMENT OF DEFENSE CORROSION PROGRAM	4,983	4,983	4,983		4,983
0400	0604648D8Z	95	JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS	2,960	2,960	2,960		2,960
0400	0604670D8Z	96	HUMAN, SOCIAL AND CULTURE BEHAVIOR MODELING (HSCB)	5,700	5,700	5,700		5,700
0400	0604787D8Z	97	JOINT SYSTEMS INTEGRATION COMMAND (JSIC)	19,375	19,375	19,375		19,375
0400	0604828D8Z	98	JOINT FIRES INTEGRATION AND INTEROPERABILITY TEAM	16,596	16,596	16,596		16,596
0400	0605017D8Z	99	REDUCTION OF TOTAL OWNERSHIP COST	25,225	25,225	25,225		25,225
0400	0303191D8Z	100	JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM	3,482	9,482	3,482	1,200	4,682
			Secure miniaturized free space optical communications		[6,000]		[1,200]	
0400	0604165D8Z	100A	PROMPT GLOBAL STRIKE				100,000	100,000
			Prompt Global Strike				[100,000]	
0400	0603713S	101	DEPLOYMENT AND DISTRIBUTION ENTERPRISE TECHNOLOG'	25,000	25,000	25,000		25,000
0400	0604051D8Z	102	DEFENSE ACQUISITION CHALLENGE PROGRAM (DACP)	28,970	28,970	28,970		28,970
0400	0604161D8Z	103	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPM	3,281	3,281	3,281		3,281
0400	0604384BP	104	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	247,935	247,935	247,935		247,935
0400	0604618D8Z	105	MANPADS DEFENSE PROGRAM					
0400	0604709D8Z	106	JOINT ROBOTICS PROGRAM	2,911	2,911	2,911		2,911
0400	0604764K	107	ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)	9,832	9,832	9,832		9,832
0400	0604771D8Z	108	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS	16,527	16,527	16,527		16,527
0400	0605000BR	109	WEAPONS OF MASS DESTRUCTION DEFEAT CAPABILITIES	15,394	15,394	15,394		15,394
0400	0605013BL	110	INFORMATION TECHNOLOGY DEVELOPMENT	11,297	12,297	11,297		11,297
			In transit visibility system		[1,000]			
0400	0605015BL	111	INFORMATION TECHNOLOGY DEVELOPMENT-STANDARD PR(					
0400	0605016D8Z	112	FINANCIAL MANAGEMENT SYSTEM IMPROVEMENTS					
0400	0605018BTA	113	DEFENSE INTEGRATED MILITARY HUMAN RESOURCES SYSTI	79,300	79,300	79,300		79,300
0400	0605018SE	114	DEFENSE INTEGRATED MILITARY HUMAN RESOURCES SYSTI					

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0400	0605019D8Z	115	ACQUISITION DOMAIN					
0400	0605020BTA	116	BUSINESS TRANSFORMATION AGENCY R&D ACTIVITIES	127,970	127,970	127,970	-12,000	115,970
			Program adjustment				[-12,000]	
0400	0605021SE	117	HOMELAND PERSONNEL SECURITY INITIATIVE	1,800	1,800	1,800		1,800
0400	0605140D8Z	118	TRUSTED FOUNDRY	43,604	43,604	43,604		43,604
0400	0605648D8Z	119	DEFENSE ACQUISITION EXECUTIVE (DAE) PILOT PROGRAM	5,838	5,838	5,838		5,838
0400	0303129K	120	DEFENSE MESSAGE SYSTEM					
0400	0303141K	121	GLOBAL COMBAT SUPPORT SYSTEM	18,129	18,129	18,129		18,129
0400	0303158K	122	JOINT COMMAND AND CONTROL PROGRAM (JC2)	70,283	50,283	70,283	-12,000	58,283
			Net Enabled C2		[-20,000]		[-12,000]	
0400	0305840K	123	ELECTRONIC COMMERCE					
0400	0901200D8Z	124	BMMP DOMAIN MANAGEMENT AND SYSTEMS INTEGRATION					
0400	0603704D8Z	125	SPECIAL TECHNICAL SUPPORT					
0400	0603712S	126	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	4,000	4,000	4,000		4,000
0400	0603757D8Z	127	TRAINING TRANSFORMATION (T2)	51,752	51,752	51,752		51,752
0400	0604140D8Z	128	CAPITAL ASSET MANAGEMENT SYSTEM-MILITARY EQUIPMEN					
0400	0604774D8Z	129	DEFENSE READINESS REPORTING SYSTEM (DRRS)	11,886	11,886	11,886		11,886
0400	0604875D8Z	130	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	14,437	14,437	14,437		14,437
0400	0604940D8Z	131	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMEI	133,772	141,772	137,772	4,000	137,772
			Advanced SAM hardware simulator development		[8,000]	[4,000]	[4,000]	
0400	0604942D8Z	132	ASSESSMENTS AND EVALUATIONS	1,645	1,645	1,645		1,645
0400	0604943D8Z	133	THERMAL VICAR	7,822	7,822	7,822		7,822
0400	0605100D8Z	134	JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC)	6,925	6,925	6,925		6,925
0400	0605104D8Z	135	TECHNICAL STUDIES, SUPPORT AND ANALYSIS	31,263	32,263	239,463	1,000	32,263
			Prompt Global Strike			[208,200]		
			National Defense University research program		[1,000]		[1,000]	
0400	0605110D8Z	136	USD(A&T)–CRITICAL TECHNOLOGY SUPPORT	4,021	4,021	4,021		4,021
0400	0605117D8Z	137	FOREIGN MATERIAL ACQUISITION AND EXPLOITATION	52,683	52,683	52,683		52,683
0400	0605124D8Z	138	DEFENSE TRAVEL SYSTEM					

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0400	0605126J	139	JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION	53,653	53,653	53,653		53,653
0400	0605128D8Z	140	CLASSIFIED PROGRAM USD(P)					
0400	0605130D8Z	141	FOREIGN COMPARATIVE TESTING	32,919	32,919	32,919		32,919
0400	0605161D8Z	142	NUCLEAR MATTERS-PHYSICAL SECURITY	4,513	4,513	4,513		4,513
0400	0605170D8Z	143	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	11,152	11,152	11,152		11,152
0400	0605200D8Z	144	GENERAL SUPPORT TO USD (INTELLIGENCE)	4,574	4,574	4,574		4,574
0400	0605384BP	145	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	99,053	99,053	99,053		99,053
0400	0605502BR	146	SMALL BUSINESS INNOVATION RESEARCH					
0400	0605502C	147	SMALL BUSINESS INNOVATIVE RESEARCH - MDA					
0400	0605502D8Z	148	SMALL BUSINESS INNOVATIVE RESEARCH					
0400	0605502E	149	SMALL BUSINESS INNOVATIVE RESEARCH					
0400	0605790D8Z	150	SMALL BUSINESS INNOVATION RESEARCH/CHALLENGE ADMI	2,162	2,162	2,162		2,162
0400	0605798D8Z	151	DEFENSE TECHNOLOGY ANALYSIS	11,927	11,927	11,927		11,927
0400	0605798S	152	DEFENSE TECHNOLOGY ANALYSIS					
0400	0605799D8Z	153	FORCE TRANSFORMATION DIRECTORATE	20,585	12,585	20,585		20,585
			General reduction		[-8,000]			
0400	0605801KA	154	DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	51,800	46,800	51,800		51,800
			Defense Technical Information Center		[-5,000]			
0400	0605803SE	155	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING AND EVALU	9,326	9,326	9,326		9,326
0400	0605804D8Z	156	DEVELOPMENT TEST AND EVALUATION	18,712	18,712	18,712		18,712
0400	0605898E	157	MANAGEMENT HQ - R&D	52,992	52,992	52,992		52,992
0400	0606100D8Z	158	BUDGET AND PROGRAM ASSESSMENTS	5,750	5,750	5,750		5,750
0400	0301555G	159	CLASSIFIED PROGRAMS	[ ]	[ ]	[ ]		[ ]
0400	0301556G	160	SPECIAL PROGRAM	[ ]	[ ]	[ ]		[ ]
0400	0303166D8Z	161	SUPPORT TO INFORMATION OPERATIONS (IO) CAPABILITIES	28,652	28,652	28,652		28,652
0400	0303169D8Z	162	INFORMATION TECHNOLOGY RAPID ACQUISITION	5,197	15,197	5,197		5,197
			Commercial information technology identification demonstration		[10,000]			
0400	0305193D8Z	163	INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS (IO)	9,932	9,932	9,932		9,932
0400	0305193G	164	INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS (IO)	[ ]	[ ]	[ ]		[ ]

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0400	0305400D8Z	165	WARFIGHTING AND INTELLIGENCE-RELATED SUPPORT	827	827	827		827
0400	0901585C	166	PENTAGON RESERVATION	6,058	6,058	6,058		6,058
0400	0901598C	167	MANAGEMENT HQ - MDA	85,906	85,906	85,906	-5,000	80,906
			Management HQ reduction				[-5,000]	
0400	0901598D8W	168	IT SOFTWARE DEV INITIATIVES	888	888	888		888
0400	0909999E	169	FINANCING FOR CANCELLED ACCOUNT ADJUSTMENTS					
0400	0604130V	170	DEFENSE INFORMATION SYSTEM FOR SECURITY (DISS)	34,417	34,417	34,417		34,417
0400	0605127T	171	PARTNERSHIP FOR PEACE (PFP) INFORMATION MANAGEMEN	2,000	2,000	2,000		2,000
0400	0607384BP	172	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTE	7,716	7,716	7,716		7,716
0400	0607828D8Z	173	JOINT INTEGRATION AND INTEROPERABILITY	53,892	53,892	53,892		53,892
0400	0204571J	174	JOINT STAFF ANALYTICAL SUPPORT	7,744	7,744	7,744		7,744
0400	0208043J	175	CLASSIFIED PROGRAMS	1,694	1,694	1,694		1,694
0400	0208045K	176	C4I INTEROPERABILITY	76,179	76,179	76,179		76,179
0400	0301011G	177	CRYPTOLOGIC ACTIVITIES	[ ]	[ ]	[ ]	[500]	[ ]
			Classified programs			[558,525]	[500]	
0400	0301144K	178	JOINT/ALLIED COALITION INFORMATION SHARING	26,321	26,321	26,321		26,321
0400	0301301L	179	GENERAL DEFENSE INTELLIGENCE PROGRAM	[ ]	[ ]	[ ]	[10,500]	[ ]
			Classified programs				[10,500]	
0400	0301318BB	180	HUMINT (CONTROLLED)	[ ]	[ ]	[ ]	[400]	[ ]
			Classified program			[400]	[400]	
0400	0301398L	181	MANAGEMENT HQ - GDIP	[ ]	[ ]	[ ]		[ ]
0400	0301555BB	182	CLASSIFIED PROGRAMS	[ ]	[ ]	[ ]		[ ]
0400	0301556BB	183	SPECIAL PROGRAM	[ ]	[ ]	[ ]		[ ]
0400	0302016K	184	NATIONAL MILITARY COMMAND SYSTEM-WIDE SUPPORT	713	713	713		713
0400	0302019K	185	DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGI	5,548	5,548	5,548		5,548
0400	0303126K	186	LONG-HAUL COMMUNICATIONS - DCS	16,487	16,487	16,487		16,487
0400	0303131K	187	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETW	9,482	9,482	9,482		9,482
0400	0303135G	188	PUBLIC KEY INFRASTRUCTURE (PKI)	9,389	9,389	9,389		9,389
0400	0303136G	189	KEY MANAGEMENT INFRASTRUCTURE (KMI)	52,090	52,090	52,090		52,090

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0400	0303140D8Z	190	INFORMATION SYSTEMS SECURITY PROGRAM	13,256	13,256	13,256		13,256
0400	0303140G	191	INFORMATION SYSTEMS SECURITY PROGRAM	394,314	394,314	425,314	800	395,114
			ISSP tech base			[30,000]		
			Software assurance & education research			[1,000]	[800]	
0400	0303140K	192	INFORMATION SYSTEMS SECURITY PROGRAM	2,300	2,300	2,300		2,300
0400	0303148K	193	DISA MISSION SUPPORT OPERATIONS					
0400	0303149J	194	C4I FOR THE WARRIOR	3,624	3,624	3,624		3,624
0400	0303149K	195	C4I FOR THE WARRIOR					
0400	0303150K	196	GLOBAL COMMAND AND CONTROL SYSTEM	47,237	47,237	47,237		47,237
0400	0303153K	197	JOINT SPECTRUM CENTER	18,653	18,653	18,653		18,653
0400	0303170K	198	NET-CENTRIC ENTERPRISE SERVICES (NCES)	43,424	43,424	43,424	-5,000	38,424
			Execution delays				[-5,000]	
0400	0303610K	199	TELEPORT PROGRAM	5,798	5,798	5,798		5,798
0400	0304210BB	200	SPECIAL APPLICATIONS FOR CONTINGENCIES	15,687	20,187	15,687	1,600	17,287
			Optical wireless mobile networking		[4,500]		[1,600]	
0400	0304345BQ	201	NATIONAL GEOSPATIAL-INTELLIGENCE PROGRAM (NGP)	[ ]	[ ]	[ ]	[-40,000]	[ ]
			Commercial imagery			[200,000]		
			Classified program			[-199,400]	[-40,000]	
0400	0305102BQ	202	DEFENSE GEOSPATIAL-INTELLIGENCE PROGRAM	[ ]	[ ]	[ ]	[5,700]	[ ]
			GEOSAR enhancements		[4,000]		[3,200]	
			China geospatial data project		[4,000]		[2,500]	
0400	0305125D8Z	203	CRITICAL INFRASTRUCTURE PROTECTION (CIP)	12,667	12,667	12,667		12,667
0400	0305127BZ	204	FOREIGN COUNTERINTELLIGENCE ACTIVITIES	[ ]	[ ]	[ ]		[ ]
0400	0305146BZ	205	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	2,951	2,951	2,951		2,951
0400	0305183L	206	DEFENSE HUMAN INTELLIGENCE (HUMINT) PROGRAM (DHIP)	[ ]	[ ]	[ ]		[ ]
0400	0305186D8Z	207	POLICY R&D PROGRAMS	4,627	5,627	4,627		4,627
			SVS critical response interactive simulation system		[1,000]			
0400	0305193L	208	INTEL SUPPORT TO INFORMATION OPERATIONS	[ ]	[ ]	[ ]		[ ]
0400	0305199D8Z	209	NET CENTRICITY	10,243	10,243	10,243		10,243

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0400	0305202G	210	DRAGON U-2 (JMIP)	[ ]	[ ]	[ ]		[ ]
0400	0305206G	211	AIRBORNE RECONNAISSANCE SYSTEMS	[ ]	[ ]	[ ]		[ ]
0400	0305207G	212	MANNED RECONNAISSANCE SYSTEMS	[ ]	[ ]	[ ]		[ ]
0400	0305208BQ	213	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	[ ]	[ ]	[ ]		[ ]
0400	0305208G	214	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	[ ]	[ ]	[ ]		[ ]
0400	0305208K	215	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	15,800	15,800	15,800		15,800
0400	0305208L	216	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	[ ]	[ ]	[ ]		[ ]
0400	0305219BB	217	MQ-1 PREDATOR A UAV	13,100	13,100	13,100		13,100
0400	0305886L	218	DIA SUPPORT TO SOUTHCOM INTEL ACTIVITIES					
0400	0305880L	219	COMBATANT COMMAND INTELLIGENCE OPERATIONS	[ ]	[ ]	[ ]		[ ]
0400	0305883L	220	HARD AND DEEPLY BURIED TARGET (HDBT) INTEL SUPPORT	[ ]	[ ]	[ ]		[ ]
0400	0305884L	221	INTELLIGENCE PLANNING AND REVIEW ACTIVITIES	[ ]	[ ]	[ ]		[ ]
0400	0305885G	222	TACTICAL CRYPTOLOGICAL ACTIVITIES	[ ]	[ ]	[ ]		[ ]
			Classified program			[69,200]		
			PATENT HAMMER		[1,000]			
			Tactical SIGINT technology		[5,000]			
0400	0305889G	223	COUNTERDRUG INTELLIGENCE SUPPORT	[ ]	[ ]	[ ]		[ ]
			Automated RF survey		[2,950]			
0400	0307141G	224	NASS, IO TECHNOLOGY INTEGRATION AND TOOL DEV	[ ]	[ ]	[ ]		[ ]
0400	0307207G	225	AERIAL COMMON SENSOR (ACS)	[ ]	[ ]	[ ]		[ ]
0400	0708011S	226	INDUSTRIAL PREPAREDNESS	20,114	32,114	62,114	31,800	51,914
			Manufacturing supply chain research			[3,000]	[1,600]	
			Castings research			[2,000]	[2,000]	
			Military high pressure packaging program		[5,000]	[4,000]	[3,200]	
			Defense fuel cell manufacturing			[3,000]		
			Industrial base innovation fund			[30,000]	[24,000]	
			Improved collapsible urethane fuel storage tanks		[2,000]		[1,000]	
			Defense supply base pilot		[5,000]			
0400	0708012S	227	LOGISTICS SUPPORT ACTIVITIES	2,846	2,846	2,846		2,846

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0400	0902298J	228	MANAGEMENT HEADQUARTERS (JCS)	3,210	3,210	3,210		3,210
0400	1001018D8Z	229	NATO JOINT STARS	41,466	41,466	41,466	-10,000	31,466
			Execution delays				[-10,000]	
0400	1130435BB	230	STORM	27,107	27,107	27,107		27,107
0400	1160279BB	231	SMALL BUSINESS INNOVATIVE RESEARCH/SMALL BUS TECH					
0400	1160403BB	232	SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED DEVEL	60,750	50,750	60,750	-3,841	56,909
			IGPS program reduction		[-10,000]			
			Excess to requirement				[-3,841]	
0400	1160404BB	233	SPECIAL OPERATIONS TACTICAL SYSTEMS DEVELOPMENT	42,262	58,962	42,262	6,800	49,062
			Advanced mission planning tools		[5,000]		[3,200]	
			Wavelet packet modulation modules		[5,900]		[2,000]	
			SUPORT		[5,800]		[1,600]	
0400	1160405BB	234	SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPME	35,783	40,783	35,783	1,200	36,983
			Advanced packaging and DF for JTWS		[2,300]		[1,200]	
			Power source integration team		[2,700]			
0400	1160408BB	235	SOF OPERATIONAL ENHANCEMENTS	53,418	63,418	53,418	5,000	58,418
			Trident Reach		[10,000]		[5,000]	
0400	1160421BB	236	SPECIAL OPERATIONS CV-22 DEVELOPMENT	23,473	23,473	23,473		23,473
0400	1160425BB	237	SPECIAL OPERATIONS AIRCRAFT DEFENSIVE SYSTEMS	5,195	5,195	5,195		5,195
0400	1160426BB	238	OPERATIONS ADVANCED SEAL DELIVERY SYSTEM (ASDS) DE	20,292	20,292	20,292		20,292
0400	1160427BB	239	MISSION TRAINING AND PREPARATION SYSTEMS (MTPS)	6,405	6,405	6,405		6,405
0400	1160428BB	240	UNMANNED VEHICLES (UV)	1,500	1,500	1,500		1,500
0400	1160429BB	241	MC-130J SOF TANKER RECAPITALIZATION	12,701	12,701	12,701		12,701
0400		999	CLASSIFIED PROGRAMS	3,483,300	3,483,300	4,092,025	-22,900	3,460,400
			Total, RDT&E Defense-Wide	**20,559,850**	**20,176,000**	**21,331,475**	**-526,214**	**20,033,636**

National Defense Education Program

The budget request included $44.4 million in PE61120D8Z for the National Defense Education Program (NDEP).

The House bill would authorize the budget request.

The Senate amendment would authorize the budget request.

The conferees agree to authorize $44.4 million in PE61120D8Z for NDEP.

The conferees note that the budget request included $13.0 million for Pre-engineering Modules under NDEP, but lacked sufficient justification for that level of funding. Therefore, the conferees direct that funding for NDEP be executed as follows: $3.5 million for Pre-engineering Modules; $6.5 million for Materials World Modules; $27.0 million for Science, Mathematics, and Research for Transformation; and $7.4 million for National Security Science and Engineering Faculty Fellowships. The conferees direct the Director of Defense Research and Engineering to continue appropriate efforts to support science and mathematics education, including at the K–12 level, and recommend that the Director provide clear objectives and rationale for future funding requests for new programs in this area.

Airborne Laser

The budget request included $548.8 million in PE63883C for the Airborne Laser (ABL) boost-phase missile defense technology demonstration program.

The House bill would authorize $298.9 million in PE63883C, a reduction of $250.0 million.

The Senate amendment would authorize $348.8 million in PE63883C, a reduction of $200.0 million.

The conferees agree to authorize $513.8 million in PE63883C, a reduction of $35.0 million.

The conferees note that the ABL program remains a high risk technology development and demonstration program that is seeking to determine the technical feasibility of using an airborne chemical laser to destroy ballistic missiles in the boost-phase of their flight, within the first few minutes after launch.

The ABL program has suffered numerous delays and cost increases since its inception in 1996, and it is currently estimated that it will cost $5.1 billion from inception to the completion of the first test to shoot down a target missile, currently scheduled for 2009. The original cost estimate to complete the first shoot-down test was $1.0 billion, which indicates the magnitude of cost growth in the ABL program.

Even if it is successful, the first shoot-down test will not determine whether the ABL could be made operationally effective or affordable. There are inherent operational constraints in the ABL concept that would have to be overcome. Much more additional testing would be required to demonstrate operational capability and military utility. Furthermore, even if the follow-on testing were successful, the system would likely not provide an operational capability until 2018 or later.

The conferees remain concerned that the requested and planned level of funding for the ABL program comes at the expense of other near-term capabilities specified in section 223 of the John

Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364), which places a priority on the development, testing, fielding, and improvement of effective near-term missile defense capabilities.

The conferees believe that missile defense resources and effort need to be focused and prioritized on those near-term effective capabilities that can meet our combatant commanders' current operational requirements to defend against existing missile threats, particularly those short- and medium-range missiles that can strike forward-deployed U.S. forces, allies, and other friendly nations in various regions.

It remains unclear whether the ABL system will be affordable. The Congressional Budget Office has made a preliminary estimate that the ABL program could cost as much as $36.0 billion to develop, procure, and operate a fleet of seven aircraft for 20 years. This would be a huge investment in a fleet of seven aircraft that may not be able to provide an operationally effective capability.

The conferees are also concerned about the number of ABL aircraft that may be required to maintain a single operational ABL aircraft on combat patrol, known as an orbit. According to the Department of Defense, 3 to 5 ABL aircraft would be required to maintain a single orbit. Additionally, to provide full coverage against geographically large countries may require three or more ABL aircraft operating simultaneously, which could require a total force of 15 or more aircraft. That would add billions of dollars to the cost of the program.

By comparison, investing that level of funding in near-term capabilities like the Aegis Ballistic Missile Defense (BMD) program, the Terminal High Altitude Area Defense program, and the Patriot PAC–3 program would provide a considerable increase in the ability of our combatant commanders to meet their operational requirements for defending our forward-deployed forces and our allies and friends against existing missile threats.

As the ABL program proceeds toward the planned shoot-down test in 2009, the conferees believe the program should receive thorough independent review, as recommended by the Government Accountability Office in its March 2007 report, "Defense Acquisitions: Missile Defense Acquisition Strategy Generates Results but Delivers Less at a Higher Cost." The conferees strongly urge the Department of Defense to commission an independent review of the technical, operational, cost, and effectiveness aspects of the proposed ABL system, particularly in comparison to the proposed Kinetic Energy Interceptor program, and the Aegis BMD system using the Standard Missile–3 Block IIA interceptor in an ascent-phase capacity.

Aegis Ballistic Missile Defense

The budget request included $1.1 billion in PE63892C for the sea-based Aegis Ballistic Missile Defense (BMD) system.

The House bill would authorize an increase of $78.0 million in PE63892C.

The Senate amendment would authorize an increase of $75.0 million in PE63892C.

The conferees agree to authorize an increase of $65.0 million in PE63892C.

The conferees note that the Missile Defense Agency (MDA) recently informed Congress that the Aegis BMD program will experience a major funding shortfall in its fiscal year 2008 program. This shortfall has caused MDA to modify its plans for Aegis BMD for fiscal year 2008, which include, among other things, delaying the introduction of the Standard Missile–3 (SM–3) Block IB missile by a year, deferring the upgrades of four Aegis BMD ships until 2010, and possibly reducing the number of flight tests. The MDA had previously told Congress that no additional money was needed for the Aegis BMD program.

As Congress made clear in section 223 of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364), the emphasis of our missile defense efforts should be on the current generation of missile defense capabilities, even if this comes at the expense of longer-term development efforts. Furthermore, in testimony before Congress earlier this year, combatant commanders noted the importance of attaching priority to deploying missile defense systems like Aegis BMD, which are designed to provide a wide-area defense capability against existing short- and medium-range ballistic missile threats to our forward-deployed forces, allies, and other friendly nations.

The conferees urge MDA to address the funding shortfall by identifying funds to "buy back" schedule, with priority placed on resolving technical issues with the SM–3 Block IA missile program, returning the SM–3 Block IB missile to its previous schedule, and ensuring that all original test objectives for fiscal year 2008 are met.

The conferees direct that no later than January 31, 2008, MDA provide a report to the congressional defense committees detailing the specific reasons for the funding shortfall in the Aegis BMD program, its plan for identifying funds to place the program back on schedule, and its plans for ensuring that the Aegis BMD program is fully funded in the future.

Over the past several years, Congress has been clear on the importance it attaches to the Aegis BMD program and other near-term missile defense systems. The conferees expect the Department's fiscal year 2009 budget request to reflect that priority.

Prompt global strike

The budget request included a total of $175.4 million for the Conventional Trident Modification (CTM), with $126.4 million in hard and deeply buried target defeat systems, PE 64327N; $36.0 million in Trident II modifications, Weapons Procurement, Navy (WPN) line 1; and $13.0 million in strategic systems missile equipment, Other Procurement, Navy (OPN) line 108. The budget request also included $32.8 million for the Common Aero Vehicle (CAV) in PE 64856F.

The House bill would authorize a total of $142.0 million for the CTM, with $126.4 million in hard and deeply buried target defeat systems, PE 64327N; $6.0 million in Trident II modifications, WPN line 1; and $6.0 million in strategic systems missile equipment,

OPN line 108. The House would authorize the budget request for the CAV.

The Senate would authorize no funding for the CTM, but would authorize $208.2 million for prompt global strike (PGS) concepts in PE 65104D8Z. The Senate would authorize no funding for the CAV in PE 64856F but would authorize the budget request for the CAV in PE 65104D8Z as part of PGS concepts.

The conferees agree to authorize $100.0 million in PE 64165D8Z for PGS in a new budget line that includes funding for the CAV. No funds are authorized for the CTM program. A further discussion of PGS is included elsewhere in this conference report.

Joint command and control

The budget request included $70.3 million in PE33158K for the joint command and control program.

The House bill would authorize a decrease of $20.0 million in PE33158K for net enabled command and control, due to activity delays that raised concerns over the ability of the program to execute the full fiscal year 2008 request.

The Senate amendment would authorize the budget request.

The conferees agree to authorize $58.3 million, a decrease of $12.0 million in PE33158K. The conferees recognize there has been improvement in the execution of the program, and remain supportive of the program's technical approach. The conferees are supportive of the program's efforts to drive the Department of Defense towards a service-oriented architecture approach, and the use of a federated development and certification environment to accelerate the process of testing and certifying new capabilities. The conferees believe that this program has the potential to dramatically influence how the Department develops and fields software-intensive systems, and provide significant new capabilities in shorter time frames.

TEST AND EVALUATION

Operational, Test, and Evaluation, Defense overview

The budget request included $180.3 million in Operational, Test, and Evaluation, Defense for the Department of Defense.

The House bill would authorize $180.3 million.

The Senate amendment would authorize $180.3 million.

The conferees agree to authorize $180.3 million.

Unless noted explicitly in the statement of managers, all changes are made without prejudice.

Title II-RDT and E

(Dollars in Thousands)

Acct	Program Element	Line	Program Title	FY2006 Request	House Authorized	Senate Authorized	Conference Change	Conference Authorized
			OPERATIONAL TEST & EVALUATION, DEFENSE					
0460	0605118D8Z	1	OPERATIONAL TEST AND EVALUATION					
0460	0605118OTE	2	OPERATIONAL TEST AND EVALUATION	48,627	48,627	48,627		48,627
0460	0605131D8Z	3	LIVE FIRE TESTING					
0460	0605131OTE	4	LIVE FIRE TEST AND EVALUATION	11,133	11,133	11,133		11,133
0460	0605804D8Z	5	DEVELOPMENT TEST AND EVALUATION					
0460	0605814OTE	6	OPERATIONAL TEST ACTIVITIES AND ANALYSES	120,504	120,504	120,504		120,504
			Total, Operational Test & Evaluation, Defense	**180,264**	**180,264**	**180,264**		**180,264**
			TOTAL RDT&E	**75,117,194**	**73,476,323**	**74,718,068**	**-1,389,649**	**73,727,545**

ITEMS OF SPECIAL INTEREST

Aerial Common Sensor

The conferees note that the restructured Aerial Common Sensor (ACS) program represents the Army's second and the Navy's third attempt to replace the Aerial Reconnaissance-Low, the Guardrail Common Sensor, and the EP–3 systems. Repeated acquisition failures waste scarce investment resources and deprive the combatant commands of needed capabilities.

The repeated setbacks demonstrate the need to maintain discipline with respect to requirements and acquisition management for the Army and Navy ACS programs.

Given the expenditures of the previously joint ACS program, the conferees stress the need for energetic oversight of both the Army and Navy ACS efforts. Therefore, the conferees direct both the Army and Navy ACS program managers to submit to the congressional defense and intelligence committees an Acquisition Program baseline, System Development and Demonstration exit criteria, and a Capability Development Document for each program no later than July 1, 2008.

Missile defense test and targets program

The conferees note the importance of the test and targets program of the Missile Defense Agency (MDA) for the development and success of the ballistic missile defense program. Congress has enacted legislation concerning the testing program repeatedly, and has stressed the need for robust and operationally realistic testing.

For example, section 234 of the Ronald W. Reagan National Defense Authorization Act for 2005 (Public Law 108–375) requires operationally realistic testing of the Ballistic Missile Defense System (BMDS), and section 234 of the National Defense Authorization Act for Fiscal Year 2006 (Public Law 109–163) requires test and evaluation plans to characterize the operational capability of each block of the BMDS. In section 234 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107–107), Congress included a requirement for "sufficient schedule flexibility and expendable test assets, including missile interceptors and targets, to ensure that failed or aborted tests can be repeated in a prudent, but expeditious manner." It also included specific requirements for the Ground-based Midcourse Defense (GMD) program "to establish a flight-test capability of launching not less than three missile defense interceptors and not less than two ballistic missile targets to provide a realistic test infrastructure."

Congress has also authorized additional resources for enhanced testing. In the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364), Congress authorized an increase of $225.0 million for enhancements to the testing program of the GMD program, including: $140.0 million for enhanced testing and to increase the pace of GMD flight testing; $60.0 million for efforts to accelerate the ability of the GMD system to conduct concurrent test and operations; and $25.0 million for advance procurement of an additional six flight test missiles.

In the National Defense Authorization Act for Fiscal Year 2006 (Public Law 109–163), Congress authorized an increase of $100.0

million for the GMD program to implement the recommendations of the MDA Independent Review Team and the Mission Readiness Task Force to enhance the GMD testing program.

Despite these repeated and consistent efforts to improve the missile defense testing program, and to make clear the requirement for robust, operationally realistic testing that demonstrates the operational capabilities of our missile defense systems and provides confidence in the systems, the conferees note with disappointment that the Missile Defense Agency has failed to ensure an adequate testing program.

The conferees note that MDA has accomplished successful flight tests, including intercept tests, over the last 5 years in each of the near-term missile defense programs, namely the Patriot PAC–3 system, the Aegis BMD system, the Terminal High Altitude Area Defense (THAAD) system, and the GMD system. While these test successes represent significant accomplishments in extremely complex weapon systems, their testing programs have also all experienced delays and failures, some because of shortcomings in the testing and targets program. Much more testing remains to be done, and the MDA test and targets program needs to be managed so as to fully support these high priority near-term programs.

One of the most troubling aspects of the testing program is the failure of MDA to ensure an adequate number of reliable targets for the various flight test programs. Over the past 2 years, the conferees have become concerned with the health of the MDA targets program. The reliability and availability of the targets program has come into question as targets failed during two tests, target anomalies occurred during other tests, and the program was unable to deliver targets on schedule or within budget, thus forcing MDA to reduce the flight test schedule of the THAAD system.

Target availability has become the pacing item in the flight test program, and a target failure in a GMD test in May of 2007 resulted in MDA completing only one GMD test during the year. Three flight tests were removed from the THAAD testing program because targets were not funded. These are serious problems. Some appear due to MDA not budgeting sufficient resources for targets, and some appear due to insufficient management attention.

The conferees are also concerned that MDA's planned future Flexible Target Family (FTF), a program designed to increase commonality in target components and subsystems thus reducing costs and production times, is proceeding at a slower pace and at greater cost than expected.

For these reasons, the conferees request that the Government Accountability Office (GAO) initiate a review of the MDA targets program. The review should include the following elements:

(1) Determine the number of target failures and anomalies that have occurred since 2002, their causes, and their impact on the BMDS;

(2) Assess whether targets are being delivered on time and if not, the causes of late deliveries;

(3) Assess how MDA estimates the cost of targets and recoups those costs from BMDS elements;

(4) Assess MDA's risk management and risk reduction strategies for the targets program;

(5) Determine whether MDA's targets program is adequately funded over the future-years defense program to deliver reliable targets on schedule to support the planned testing program;

(6) Determine the status of MDA's effort to establish an FTF, including any issues that have slowed its progress, and whether the FTF program is likely to correct any of the problems that have occurred in the targets program; and

(7) Make any recommendations for improvements to the MDA targets program.

The GAO should work with the Committees on Armed Services of the Senate and the House of Representatives to define a reporting timeline for this review.

The conferees believe that MDA should consider, plan, and budget for a robust testing program—including an adequate number of reliable targets—that includes salvo launches, multiple target engagements, multi-mission tests, liquid target tests, and tests that will stress the systems to determine how they would perform under real-world operational conditions. The conferees plan to monitor the testing and targets program carefully in the coming year.

NSA acquisition management

The Senate report accompanying S. 1547 (S. Rept. 110–77) directs a series of actions regarding the National Security Agency's (NSA) transformation programs. The conferees endorse this direction, but with two modifications.

The Senate report directs that the Director of Operational Test and Evaluation (DOT&E) exercise oversight over all major elements of the NSA's Transformation 3.0 activities. The conferees understand that the Joint Interoperability Test Command (JITC) is already supporting the NSA's test and evaluation activities, and directs that JITC be substituted for the DOT&E in complying with the direction in the Senate report.

The Senate report also mandates that the NSA's transformation programs may not proceed to Milestone B without certain certifications to Congress. The conferees agree that this language should be understood to mean that the certifications required can be prepared and issued as part of the Milestone B approval process.

Subtitle A—Authorization of Appropriations

Authorization of appropriations (sec. 201)

The House bill contained a provision (sec. 201) that would authorize the recommended fiscal year 2008 funding levels for all research, development, test, and evaluation accounts.

The Senate amendment contained a similar provision (sec. 201).

The conference agreement includes this provision.

Amount for defense science and technology (sec. 202)

The House bill contained a provision (sec. 202) that would authorize $11,504.3 million for defense science and technology programs.

The Senate amendment contained a similar provision (sec. 202) that would authorize $11,203.3 million for defense science and technology programs.

The conferees agree to include a provision that would authorize $10,913.9 million for defense science and technology programs.

Subtitle B—Program Requirements, Restrictions, and Limitations

Operational test and evaluation of Future Combat Systems network (sec. 211)

The House bill contained a provision (sec. 211) that would require an operational test and evaluation of the Future Combat Systems (FCS) network in a realistic environment simulating operational conditions. No funds could be obligated for low-rate initial production or full-rate production of FCS manned ground vehicles until 60 days after the submission of a required report on the testing by the Director of Operational Test and Evaluation (DOT&E). The provision would exclude the Non-Line-of-Sight Cannon from the funding prohibition.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that would clarify that the test and evaluation of the network would be conducted in accordance with a FCS Test and Evaluation Master Plan approved by the DOT&E, that the test and evaluation would be conducted using prototype equipment, sensors, and software for the FCS network, and that the prohibited funding subject to this provision would not include funds for advance procurement items for FCS manned ground vehicles.

The conferees do not intend to require any additional testing and evaluation beyond that deemed necessary by the DOT&E to determine operational effectiveness and suitability of the network. The conferees also do not intend for that testing and evaluation to be conducted under any other conditions or in any other environment than that provided by the location or locations specified in an approved Test and Evaluation Master Plan, and within the safety, legal, and electromagnetic interference constraints of the approved testing location.

The conferees intend that the testing be conducted within the development and resource constraints of the FCS program. Additionally, funding for FCS Spin Outs, which do not include manned ground vehicles as currently defined by the Army, would not be prohibited under this provision.

Limitation on use of funds for systems development and demonstration of Joint Light Tactical Vehicle program (sec. 212)

The House bill contained a provision (sec. 212) that would restrict the obligation of authorized funds for the Joint Light Tactical Vehicle (JLTV) program beyond its Design Readiness Review until the congressional defense committees receive a progress report on the program's compliance with section 2366a of title 10, United States Code.

The Senate amendment contained no similar provision.

The Senate recedes with a clarifying amendment that would limit the obligation of authorized funds for the JLTV program be-

yond the Milestone B decision and system design and demonstration (SDD) phase until the congressional defense committees receive and review the Milestone Decision Authority's required certifications that comply with section 2366a of title 10, United States Code.

The conferees strongly support the JLTV program, but are concerned that the JLTV program may enter the acquisition phase of SDD with insufficient knowledge of technology maturity, requirements, and affordability.

Requirement to obligate and expend funds for development and procurement of a competitive propulsion system for the Joint Strike Fighter (sec. 213)

The House bill contained a provision (sec. 213) that would require the Department of Defense to develop a competitive propulsion system for the Joint Strike Fighter (JSF) aircraft. The House language was not explicit on the issue of permitting a winner-take-all down select at the time the alternate engine is ready for production.

The Senate amendment contained a similar provision (sec. 213). The Senate provision would explicitly require, however, that competition continue throughout the production phase of the JSF program.

The conferees agree to include language that would require the Department of Defense to: (1) develop a competitive propulsion system for the JSF aircraft; and (2) continue competition for the propulsion system throughout the production phase of the JSF program.

Limitation on use of funds for defense-wide manufacturing science and technology program (sec. 214)

The House bill contained a provision (sec. 214) that would restrict the use of funds for the manufacturing science and technology program, unless competitive procedures were used in project awards; projects were carried out in a manner that was consistent with statute and directives; and a formal technology transition agreement was executed for each project.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that would require the Department of Defense to solicit competitive proposals for funding under the program, and would replace the requirement for a formal technology transition agreement with a requirement for an implementation plan.

The conferees believe that the manufacturing science and technology program should invest in higher risk efforts aimed more at developing next generation or cross-cutting capabilities than those currently being pursued in the manufacturing technology programs of the services and agencies.

Advanced sensor applications program (sec. 215)

The Senate amendment contained a provision (sec. 211) that would require that $20.0 million in funds authorized and appropriated for the Foreign Materials Acquisition and Exploitation program and for activities of the Office of Special Technology be allo-

cated to the Advance Sensor Applications Program (ASAP). That provision would have also required that management oversight of the program be transferred to the Defense Threat Reduction Agency.

The House bill contained no similar provision.

The House recedes with an amendment that would require that $13.0 million in funds authorized and appropriated for activities of the Intelligence Systems Support Office and $5.0 million of operation and maintenance funds from the office of the Director of Naval Intelligence be allocated to the ASAP program. The modified provision would also require that the management oversight of the program remain within the office of the Under Secretary of Defense for Intelligence until certain conditions as specified in the classified annex to this report are met.

Active protection systems (sec. 216)

The Senate amendment contained a provision (sec. 212) that would require comparative live-fire tests and a comprehensive assessment of active protection systems.

The House bill contained no similar provision.

The House recedes with an amendment that would emphasize the need to perform live-fire tests of systems that are suitable for use on tactical wheeled vehicles, especially light tactical wheeled vehicles, and specify that the source of funding for the test should be the Joint Improvised Explosive Device Defeat Fund.

Subtitle C—Ballistic Missile Defense

Participation of Director, Operational Test and Evaluation, in missile defense test and evaluation activities (sec. 221)

The House bill contained a provision (sec. 221) that would require that the Director of Operational Test and Evaluation have access to certain operational test and evaluation information of the Missile Defense Agency pertaining to any major defense acquisition program.

The Senate amendment contained a similar provision (sec. 234) that would amend title 10, United States Code, to ensure that the Director of Operational Test and Evaluation has access to missile defense test and evaluation information of the Missile Defense Agency.

The House recedes with a clarifying amendment.

Study on future roles and missions of the Missile Defense Agency (sec. 222)

The House bill contained a provision (sec. 222(d), (e), (f)) that would require an independent study of the future structure, roles, and missions of the Missile Defense Agency, including its relationship with other entities of the Department of Defense. The study would also make recommendations on the future structure, roles, and missions of the Missile Defense Agency.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that would add several matters to be included in the study, including: the operation and sustainment of missile defenses; the missile defense acquisi-

tion process; the missile defense requirements process; and the transition and transfer of missile defense capabilities to the military departments. The Senate amendment would also clarify the scope of the recommendations to be included in the study.

Budget and acquisition requirements for Missile Defense Agency activities (sec. 223)

The House bill contained a provision (sec. 222(a), (b), (c)) that would require the Missile Defense Agency (MDA) to request operation and maintenance (O&M) funds for any operation and support activities in its fiscal year 2009 budget request. It would also require MDA to submit a plan, no later than March 1, 2008, for transitioning MDA from using research, development, test, and evaluation (RDT&E) funds for missile defense fielding activities to using procurement funds for such activities. The provision would also require an independent study of the future roles and missions of MDA.

The Senate amendment contained a similar provision (sec. 233) that would require MDA, starting with its budget submission for fiscal year 2009, to request separate amounts for RDT&E, procurement, O&M, and military construction. The provision would also establish objectives and requirements for improving transparency, accountability, and oversight of MDA acquisition activities.

The House recedes with an amendment that would combine the budget and acquisition provisions of the two bills to establish future budget and acquisition requirements for MDA. The issue of an independent study of the future roles and missions of MDA is described elsewhere in this report.

The agreed provision would require MDA to revise its budget structure to transition to the use of all the normal categories of funding in fiscal year 2010 (RDT&E, procurement, O&M, and military construction), instead of using exclusively RDT&E funds for all activities. In fiscal year 2009 the MDA budget request would include, in addition to RDT&E funds, military construction funds and procurement funds for long lead items, including for Terminal High Altitude Area Defense firing units 3 and 4, and for Standard Missile-3 Block IA interceptors. The provision would provide defined authority for MDA to use RDT&E funds in fiscal year 2009 for fielding of missile defense capabilities previously approved by Congress.

The provision would direct MDA to submit to Congress by March 1, 2008, its plan to transition from using exclusively RDT&E funding to using procurement, O&M, military construction, and RDT&E funds, as well as its plan for transitioning from incremental funding to full funding in fiscal years after fiscal year 2010. The conferees note that over the long term, it is likely more cost-effective and less expensive to fully fund assets than to fund them incrementally over several years.

The conferees are aware that the missile defense capabilities developed and fielded by MDA have been funded on an incremental funding basis, using RDT&E funds, since 2002. As MDA transitions from exclusively RDT&E funding to procurement and other funding, the conferees understand that it will take time for MDA to transition from incremental funding to full funding of fielded ca-

pabilities. Consequently, the conference agreement would provide MDA with the authority to use procurement funds for fiscal years 2009 and 2010 to field missile defense capabilities on an incremental funding basis, without any requirement for full funding.

The conferees understand that MDA may seek to use incremental funding after fiscal year 2010 to continue fielding specific missile defense capabilities. Congress will consider a request for additional authority for incremental funding of a specific program or capability in fiscal years after 2010 if the Department of Defense makes such a request in a future budget request. The conferees caution the Department that this additional authority will be considered on a limited, case-by-case basis, and expect that future missile defense programs will be funded in a manner more consistent with other acquisition programs of the Department of Defense.

The conferees expect MDA to continue to place high priority attention and resources on fielding the near-term missile defense capabilities previously approved by Congress, namely Ground-based Interceptors, the Aegis Ballistic Missile Defense program and its Standard Missile-3 interceptors, and the Terminal High Altitude Area Defense program, and to make every effort to keep these programs on schedule.

Limitation on use of funds for replacing warhead on SM–3 Block IIA missile (sec. 224)

The House bill contained a provision (sec. 223) that would prohibit the use of funds authorized to be appropriated in this Act to replace the currently planned unitary warhead for the Standard Missile-3 (SM–3) Block IIA interceptor missile with a multiple kill vehicle (MKV) warhead until after the Secretary of Defense certifies that two conditions have been met: (1) the United States and Japan have reached agreement to replace the unitary kill vehicle with an MKV; and (2) replacing the unitary kill vehicle on the SM–3 Block IIA missile with an MKV will not delay the expected deployment date of that SM–3 missile.

The Senate amendment contained no similar provision.

The Senate recedes.

The conferees note that the Missile Defense Agency (MDA) has indicated an interest in replacing the unitary kill vehicle development program, which is specified in the agreement with Japan, with a new MKV development program. This would have undermined the agreed program of cooperation between the United States and Japan on joint development of the SM–3 Block IIA interceptor missile. It is important to support the joint development program in accordance with the agreed program of record, which currently specifies a unitary kill vehicle.

This provision does not restrict the MDA from conducting research, development, analysis, or testing of MKV technologies, including those which could be used in the future with the SM–3 Block IIA missile. It also does not restrict MDA from conducting analysis and discussions with Japanese officials to consider the possibility of including MKV on the SM–3 Block IIA.

Extension of Comptroller General assessments of ballistic missile defense programs (sec. 225)

The House bill contained a provision (sec. 224) that would extend by 2 years the period for which the Government Accountability Office (GAO) would review the programs of the Missile Defense Agency.

The Senate amendment contained a similar provision (sec. 235) that would extend by 5 years the period for which the GAO would review the programs of the Missile Defense Agency.

The House recedes.

The conferees note that the annual reviews and reports of the GAO on missile defense programs have proven very useful to Congress in providing detailed oversight and recommendations. The conferees value the work of the GAO, and note the importance of the Department of Defense and the Missile Defense Agency providing information to GAO in a timely and responsive manner to facilitate their review of, and reporting to Congress on, ballistic missile defense programs.

Limitation on availability of funds for procurement, construction, and deployment of missile defenses in Europe (sec. 226)

The House bill contained a provision (sec. 225) that would require an independent assessment of the proposed deployment of Ground-based Midcourse Defense interceptors and associated radars in Europe, and would require an assessment of alternatives to that proposed deployment.

The Senate amendment contained a related provision (sec. 231) that would limit the obligation of fiscal year 2008 funds for procurement, site activation, construction, preparation of equipment for, or deployment of the proposed European deployment until two conditions are met: (1) the Governments of Poland and the Czech Republic have given final approval to bilateral missile defense deployment agreements negotiated with the United States; and (2) 45 days have elapsed after Congress receives an independent assessment of options for missile defense in Europe. The provision would also limit the availability of fiscal year 2008 funds for the acquisition or deployment of operational interceptor missiles for the proposed European deployment until the Secretary of Defense certifies that the 2-stage interceptor proposed for deployment in Europe has demonstrated, through successful, operationally realistic flight testing, a high probability of working in an operationally effective manner. The provision would also require an independent assessment of specified options for missile defense in Europe. The provision would not limit the availability of fiscal year 2008 funds for activities not otherwise limited by the provision, including site surveys, studies, analyses, and planning and design for the proposed missile defense deployment in Europe.

The House recedes with an amendment that would combine the elements of the two provisions.

The conferees note that the administration requested fiscal year 2008 funds to begin construction for the proposed missile defense deployment before it began negotiations on deployment with either Poland or the Czech Republic. The conferees believe it is premature to seek construction funds before even negotiating agree-

ments with Poland and the Czech Republic, and have authorized reduced funding accordingly.

The conferees observe that, if the Governments of Poland and the Czech Republic give final approval to any successfully negotiated deployment agreements during fiscal year 2008, the Department of Defense will have the option of submitting a reprogramming request for site activation and construction funds.

The administration's proposed deployment is intended to address a potential future long-range missile threat from Iran to the U.S. homeland and to Europe. While this potential threat may or may not emerge by 2015, Iran already has the largest inventory of short- and medium-range ballistic missiles in the Middle East, and these missiles currently pose a threat to forward-deployed forces of the United States and to its allies and other friendly nations in the region.

As enacted by section 223 of the John Warner National Defense Authorization Act for Fiscal Year 2007 (Public Law 109–364), "it is the policy of the United States that the Department of Defense accord a priority within the missile defense program to the development, testing, fielding, and improvement of effective near-term missile defense capabilities." The conferees believe that, consistent with this policy, it is essential to focus on developing, testing, and deploying effective, near-term missile defense capabilities to defend against these existing missile threats.

The Commander of the Joint Forces Component Command for Integrated Missile Defense, a component of United States Strategic Command, informed Congress that in order to fulfill the combatant commanders' operational requirements to defend against existing short- and medium-range missile threats the U.S. would require almost twice the number of Terminal High Altitude Area Defense (THAAD) and Standard Missile–3 (SM–3) interceptors as currently planned for and budgeted. The independent assessment required in this provision will examine the full range of threats and missile defense options to meet these threats, including the THAAD and SM–3 systems.

The conferees strongly support the need to work closely with our North Atlantic Treaty Organization (NATO) allies, including Poland and the Czech Republic, to defend against the mutual threats we face, including ballistic missile threats. In this regard, there are several key principles that should guide the proposed missile defense deployment in Europe.

First, NATO must play a central role with regard to future discussions on European missile defense. To the extent the proposed deployment is placed in a larger NATO context, NATO is more likely to be supportive. The conferees encourage NATO to accelerate its efforts to acquire wide area missile defense capabilities against short- and medium-range missile threats.

Second, any future long-range U.S. missile defense system deployed in Europe should, to the maximum extent possible, be integrated and fully interoperable with the missile defense systems that NATO is developing for deployment. Since NATO is expected to begin deploying an initial capability in 2010, this will require a clear understanding of the planned capabilities and the command

and control arrangements for the systems of NATO and of the United States.

Third, it is imperative that any U.S. missile defense system deployed to protect our forward-deployed forces and NATO allies in Europe be part of a larger network of systems that defends all such allies, and must not leave the territory of certain allies unprotected against short- and medium-range missile threats. The proposed U.S. system would leave parts of NATO's southeastern region unprotected, thus requiring other systems, such as those mentioned above, to provide full protection. As the NATO Secretary General has indicated, the indivisibility of alliance security is a principle on which there can be no compromise.

Sense of Congress on missile defense cooperation with Israel (sec. 227)

The House bill contained a provision (sec. 228) that would require the Secretary of Defense to expand the U.S. ballistic missile defense system to better integrate with the Israeli ballistic missile defense system, and also would require the Secretary to submit a report on the status of integrating U.S. and Israeli missile defense systems. The provision would also authorize funding for a variety of missile defense programs to assist Israel's defensive capability.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that expresses the sense of Congress that the United States should have an active program of ballistic missile defense cooperation with Israel, and should take steps to improve the coordination, interoperability, and integration of their missile defense capabilities, and enhance their capability to defend against ballistic missile threats present in the Middle East region. The amendment would also require the Secretary of Defense to submit to the congressional defense committees a report that describes in detail the program of missile defense cooperation between the United States and Israel, including plans for future capability enhancement.

The conferees note that the United States and Israel have a long-standing program of cooperation on ballistic missile defense, including joint development of technology like the Arrow interceptor missile, and joint missile defense testing and exercises. This cooperation continues to serve the security interests of both nations.

The conferees are aware that Israel is considering a follow-on system for the Arrow Weapon System that would provide better defensive capability against faster, higher, and more challenging missiles than Arrow can currently provide. The conferees encourage Israel and the Missile Defense Agency to evaluate the possibility of using the U.S. Terminal High Altitude Area Defense (THAAD) system, or a land-based version of the Standard Missile-3, as a successor to Arrow. If either or both of these systems could provide the desired level of defensive protection, it would be much more cost-effective and less expensive than developing a new Arrow system.

Limitation on availability of funds for deployment of missile defense interceptors in Alaska (sec. 228)

The Senate amendment contained a provision (sec. 232) that would limit the availability of funds authorized in this Act to deploy more than 40 Ground-Based Interceptors at Fort Greely, Alaska, until the Secretary of Defense submits a certification that the Block 2006 Ground-based Midcourse Defense system has demonstrated, through operationally realistic end-to-end flight testing, that it has a high probability of working in an operationally effective manner.

The House bill contained no similar provision.

The House recedes.

Policy of the United States on protection of the United States and its allies against Iranian ballistic missiles (sec. 229)

The Senate amendment contained a provision (sec. 1218) that would state the policy of the United States to develop and deploy, in conjunction with its allies and other nations whenever possible, an effective defense against Iranian ballistic missiles that threaten forward-deployed forces of the United States and its North Atlantic Treaty Organization (NATO) allies in Europe, and which could eventually pose a threat to the United States homeland. The provision would also make it the policy of the United States to proceed with the development of such defenses so that any missile defenses fielded by the United States in Europe are integrated with or complementary to missile defense capabilities fielded by NATO.

The House bill contained no similar provision.

The House recedes with an amendment that would add a policy statement to encourage NATO to accelerate its efforts to acquire missile defense capabilities to defend NATO territory against the existing threat of Iranian short- and medium-range ballistic missiles, including wide-area defense. It also includes references to other allies and friendly nations in the region.

Subtitle D—Other Matters

Coordination of human systems integration activities related to acquisition programs (sec. 231)

The House bill contained a provision (sec. 231) that would require the designation of a senior official to be responsible for human systems integration (HSI) activities throughout acquisition programs, supervise such activities, recommend resource requirements for such activities, and develop a departmental instruction, and possibly directive, relating to HSI.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that would require the designation of a senior official to coordinate HSI activities related to acquisition programs and eliminate the statutory requirement for the development of a specific directive or instruction on HSI.

The conferees note that the Department of Defense (DOD) April 2006 report to Congress entitled "Human Systems Integration Activity in DOD Acquisition Programs" concluded that ". . . a sound HSI strategy in acquisition is a highly effective method of both saving the Department significant costs during the life cycle

of systems and improving system performance," but also found that business practices in this area ". . . are not mature and consistent across DOD." It further concluded that effectiveness of HSI is improved by the "institutionalization and standardization of assessment methods and modeling tools across DOD."

The conferees believe that this area should continue to be a high priority within the Department and believe that this provision will support efforts at the effective coordination and prioritization of HSI efforts. The conferees urge the Department to continue to invigorate and invest in HSI activities throughout acquisition programs, including in science and technology programs.

The conferees note the Department's failure to satisfy the reporting requirement set out in the Committee on Armed Services of the House of Representatives report to accompany the National Defense Authorization Act for Fiscal Year 2006 (H. Rpt. 109–89), and that a comprehensive review of HSI is over 1 year late. Therefore, to improve DOD responsiveness and intra-departmental coordination, the conferees believe designation of a senior official to coordinate and develop HSI-related activities and methodologies is necessary. The conferees direct the designated official to develop and report on a timeline and plan to satisfy outstanding report and assessment requirements.

Expansion of authority for provision of laboratory facilities, services, and equipment (sec. 232)

The House bill contained a provision (sec. 232) that would authorize defense laboratories to provide facilities, services, and equipment through leases, contracts, or other arrangements to private sector entities. It would also permit defense laboratories to receive fees and in-kind payments for these activities and to deposit those fees into appropriate accounts of the laboratory.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that would modify existing authority regarding the provision of samples, drawings, and other services to private sector persons or entities. The amendment would broaden these existing authorities to enable the Department of Defense to make available, under regulations prescribed by the Secretary of Defense, facilities, services, and equipment, as long as that availability would not place the Department in direct competition with the domestic private sector, and does not involve in-kind payments for services provided.

The conferees are supportive of efforts that will improve the quality of the defense laboratories and increase their ability to perform their designated missions effectively and efficiently. The conferees believe that the taxpayer-funded infrastructure managed by the Department of Defense should be utilized to support private sector activities when in the interest of national defense. The conferees expect that such support should not displace defense activities or create situations in which the government is in competition with elements of the private sector.

The conferees anticipate that the Secretary of Defense will promulgate regulations for the utilization of this authority that adequately protect both the government's and the private sector's interests through the establishment of appropriate safeguards. The

conferees further expect to be kept informed of progress in the establishment of this regulatory framework, lessons learned through the use of this new authority, specific benefits to the Department that are resulting from its use, and any difficulties encountered in its execution.

Modification of cost sharing requirement for Technology Transition Initiative (sec. 233)

The Senate amendment contained a provision (sec. 252) that would modify the cost sharing requirements in the Technology Transition Initiative.

The House bill contained no similar provision.

The House recedes.

Report on implementation of Manufacturing Technology Program (sec. 234)

The House bill contained a provision (sec. 235) that would require a report on the implementation of the technologies and processes developed under the Manufacturing Technology Program.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that would modify the reporting requirement to include assessments of performance enhancements attributable to the Manufacturing Technology Program and related investments, and to modify the time period covered by the implementation analyses.

The conferees intend that the analyses and reporting required by the report should include all projects which received funding from a service or Defense Agency Manufacturing Technology Program in fiscal years 2003, 2004, or 2005, including projects which were initiated prior to 2003.

Assessment of sufficiency of test and evaluation personnel (sec. 235)

The House bill contained a provision (sec. 236) that would require an assessment of the sufficiency of the workforce of the Office of the Director of Operational Test and Evaluation.

The Senate amendment contained no similar provision.

The Senate recedes.

The conferees are supportive of efforts to assess accurately the required size and technical skill mix of the workforce necessary to fulfill the important statutory role of the Office of the Director of Operational Test and Evaluation. The conferees are concerned, however, that the organization is heavily reliant on contractor support. Therefore, the conferees expect that this assessment will also address the appropriate balance between government personnel and contractor support in the organization, given its critical, independent oversight role.

Repeal of requirement for separate reports on technology area review and assessment summaries (sec. 236)

The House bill contained a provision (sec. 237) that would repeal the statutory requirement for a report to Congress that summarizes the Director of Defense Research and Engineering's Technology Area Review and Assessment (TARA).

The Senate amendment contained no similar provision.

The Senate recedes.

The conferees note that the role of the Director of Defense Research and Engineering (DDR&E) in coordinating the science and technology (S&T) programs of the military services, defense agencies, Special Operations Command, other departmental organizations, and other federal agencies is critical to the efficient and effective execution of the Department of Defense's overall S&T strategy. Further, the Defense Science Board in its October 2005 report "The Roles and Authorities of the Director of Defense Research and Engineering" noted that ". . . the DDR&E should be tasked to assure that all research and development organizations are implementing the strategic technology guidance of the Department."

The conferees further note that the TARA process has been replaced by a combination of S&T collaborative reviews, forward looking assessments, and technology focus teams, under the newly established Reliance 21 process. The conferees support any efforts to improve the coordination and execution of the S&T program and expect the Department to keep the congressional defense committees informed of the maturity and effectiveness of the new processes, as well as outcomes, when appropriate, of specific technical reviews and assessments.

Modification of notice and wait requirement for obligation of funds for foreign comparative test program (sec. 237)

The Senate amendment contained a provision (sec. 251) that would shorten the notice and wait time required for the obligation of funds in the Foreign Comparative Test program.

The House bill contained no similar provision.

The House recedes.

Strategic plan for the Manufacturing Technology Program (sec. 238)

The Senate amendment contained a provision (sec. 253) that would require the development of a strategic plan for the Manufacturing Technology Program.

The House bill contained no similar provision.

The House recedes with an amendment that would clarify the time period covered by the plan and modify the requirements for development of the plan and for its submission to Congress.

The conferees are supportive of the efforts of the Manufacturing Technology Program to enhance the producibility, improve the performance, and increase the affordability of defense systems. The conferees note that the Defense Science Board, in its recent study entitled, "The Manufacturing Technology Program: A Key to Affordably Equipping the Future Force" recommended that the Department of Defense "ensure implementation" of the Manufacturing Technology Program strategic plan and investment strategy "with periodic reviews of plan execution." The conferees believe that this provision, as well as other manufacturing-related provisions adopted by the conferees, are consistent with that recommendation and would support efforts to identify best practices that can be used in making future manufacturing technology investments and transitioning technologies to the defense industrial base.

Modification of authorities on coordination of Defense Experimental Program to Stimulate Competitive Research with similar federal programs (sec. 239)

The Senate amendment contained a provision (sec. 254) that would give the Department of Defense more flexibility in its execution of the Defense Experimental Program to Stimulate Competitive Research.

The House bill contained no similar provision.

The House recedes.

Enhancement of defense nanotechnology research and development program (sec. 240)

The Senate amendment contained a provision (sec. 255) that would update the program and reporting requirements for the defense nanotechnology research program.

The House bill contained no similar provision.

The House recedes with an amendment that would modify the activities and interagency coordination efforts under the program and eliminate the requirement for a Comptroller General study of the program.

The conferees believe that nanotechnology can enable novel future military capabilities if research efforts can be matured into battlefield applications. This type of technology transition is difficult for all technologies, and will be difficult for nanotechnology as well. The conferees believe that the Department of Defense should begin to anticipate and address future technology transition issues, such as manufacturing of nanosystems and developing a sustainable nanotechnology industrial base.

The conferees further see the value in supporting government-wide efforts as part of the National Nanotechnology Initiative and therefore direct the Department to participate in all appropriate interagency activities, including providing appropriate resources to support its involvement in those activities.

Federally funded research and development center assessment of the Defense Experimental Program to Stimulate Competitive Research (sec. 241)

The Senate amendment contained a provision (sec. 256) that would require an assessment by the Comptroller General of the Defense Experimental Program to Stimulate Competitive Research.

The House bill contained no similar provision.

The House recedes with an amendment that would require the Secretary of Defense to utilize a defense federally funded research and development center for an independent assessment of the Defense Experimental Program to Stimulate Competitive Research.

Cost-benefit analysis of proposed funding reduction for High Energy Laser Systems Test Facility (sec. 242)

The Senate amendment contained a provision (sec. 258) that would require a cost-benefit analysis of the proposed funding reduction for the High Energy Laser Test Facility.

The House bill contained no similar provision.

The House recedes.

Prompt global strike (sec. 243)

The House bill contained a provision (sec. 124) that would prohibit the Department of Defense (DOD) from obligating or expending any fiscal year 2008 funds for operational deployment of a weapons system that uses Trident missiles converted to carry conventional payloads. The provision would also direct the Secretary of Defense to notify the congressional defense committees within 30 days after the date on which he determines such a weapons system is fully functional and is necessary to meet military requirements.

The Senate amendment contained no similar provision.

The Senate recedes with an amendment that would direct the Secretary of Defense to prepare and submit to the congressional defense committees a research, development, and test plan for capabilities that could be used in prompt global strike (PGS) systems. Further, the amendment would direct the Under Secretary of Defense for Acquisition, Technology, and Logistics to submit a plan for obligation and expenditure of funds for fiscal year 2008, and would prohibit implementation of that plan until at least 10 days after it is submitted to the congressional defense committees.

The conferees provide no funds for the Conventional Trident Modification (CTM) program. This limitation on the CTM program does not preclude continued research, development, test, and evaluation on subsystems or technologies previously pursued under the CTM program if applicable to other PGS alternatives or use of the Trident D5 as a test platform.

The conferees have consolidated funding requested by the Navy for CTM and funds requested by the Air Force for the Common Aero Vehicle (CAV) into PE 64165D8Z to be used to establish an integrated PGS program. Requirements for the program should be provided by the United States Strategic Command as informed by the ongoing analysis of alternatives for PGS and the PGS technology road map.

The conferees look to the PGS program to conduct research and development in a wide variety of technology areas including propulsion systems, advanced payload delivery and dispensing mechanisms, system command and control, and non-nuclear, kinetic and non-kinetic payloads.

The conferees note the value of developing conventional prompt global strike capabilities that may be needed for time-sensitive operations. Conventional prompt global strike capabilities would also continue the post-Cold War trend of reducing U.S. reliance on nuclear weapons by providing the President with a wider variety of viable non-nuclear strike options.

The conferees remain concerned about prompt global strike concepts that would employ a mixed loading of nuclear and non-nuclear systems and believe that DOD should carefully address these ambiguity concerns.

LEGISLATIVE PROVISIONS NOT ADOPTED

Gulf War illnesses research

The Senate amendment contained a provision (sec. 214) that would authorize a $15.0 million increase for Gulf War illnesses research.

The House bill contained no similar provision.

The Senate recedes.

The conference outcome is reflected in the tables of this report in Research, Development, Test, and Evaluation, Army, PE 63002A.

The conferees direct the Secretary of the Army to utilize the authorized funding for this program to undertake research on Gulf War illnesses. The conferees direct that activities under the program should include studies of treatments for the complex of symptoms commonly referred to as "Gulf War Illness"; and identification of objective markers for Gulf War Illness. The conferees recommend that no studies based on psychiatric illness and psychological stress as the central cause of Gulf War Illness be funded under the program. The conferees direct that the program be conducted using competitive selection and peer review for the identification of research with the highest technical merit and military value. Further, the conferees direct that this program be coordinated with similar activities in the Department of Veterans Affairs and the National Institutes of Health.

Increased funds for X Lab battlespace laboratory

The House bill contained a provision (sec. 227) that would authorize an increase of $10.0 million for the X Lab battlespace laboratory.

The Senate amendment contained no similar provision.

The House recedes.

The conference outcome is reflected in the tables of this report in Research, Development, Test, and Evaluation (RDT&E), Defense-wide, line 30.

Modeling, analysis, and simulation of military and non-military operations in complex urban environments

The House bill contained a provision (sec. 238) that would express findings of Congress relating to modeling and simulation of urban environments.

The Senate amendment contained no similar provision.

The House recedes.

The conferees believe that modeling and simulation activities hold the promise of improving defense capabilities across the spectrum of missions and have adopted a provision elsewhere in this bill that reflects the high priority that these activities should have. The conferees believe that modeling and simulation activities show significant promise in improving military and non-military capabilities for operating in complex urban environments.

Reduction of amounts for Army Venture Capital Fund demonstration

The House bill contained a provision (sec. 233) that would authorize a decrease of $10.0 million for the Army Venture Capital Fund demonstration.

The Senate amendment contained no similar provision.

The House recedes.

The conference outcome is reflected in the tables of this report in Research, Development, Test, and Evaluation, Army, PE 63125A.

Sense of Congress concerning full support for development and fielding of a layered ballistic missile defense

The House bill included a provision (sec. 226) that would express the sense of Congress concerning support for development and fielding of a layered ballistic missile defense system.

The Senate amendment contained no similar provision.

The House recedes.

TITLE III—OPERATION AND MAINTENANCE

Operation and maintenance overview

The budget request included $142.8 billion for operation and maintenance for the Department of Defense.

The House bill would authorize $142.5 billion for operation and maintenance.

The Senate amendment would authorize $143.6 billion for operation and maintenance.

The conferees agree to authorize $142.8 billion for operation and maintenance for the Department of Defense.

Unless noted explicitly in the statement of managers, all changes are made without prejudice.