

**TITLE IV**  
**RESEARCH, DEVELOPMENT, TEST AND EVALUATION**  
**ESTIMATES AND APPROPRIATION SUMMARY**

The fiscal year 2007 Department of Defense research, development, test and evaluation budget request totals \$73,156,008,000. The accompanying bill recommends \$75,336,246,000. The total amount recommended is an increase of \$2,180,238,000 above the fiscal year 2007 budget estimate and is \$3,925,342,000 above the total provided in fiscal year 2006. The table below summarizes the budget estimate and the Committee's recommendations.

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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RECAPITULATION			
Research, Development, Test and Evaluation, Army . . . . .	10,855,559	11,834,882	+979,323
Research, Development, Test and Evaluation, Navy . . . . .	16,912,223	17,654,518	+742,295
Research, Development, Test and Evaluation, Air Force . . . . .	24,396,767	24,457,062	+60,295
Research, Development, Test and Evaluation, Defense-Wide . . . . .	20,809,939	21,208,264	+398,325
Operational Test and Evaluation, Defense . . . . .	181,520	181,520	---
GRAND TOTAL . . . . .	73,156,008	75,336,246	+2,180,238

## JOINT COMMON MISSILE

Joint Common Missile (JCM) is a fixed and rotary wing aviation-launched missile system that provides advanced line-of-sight, and non-line-of-sight capabilities, including precision strike, passive, and fire-and-forget seeker technologies with increased range and lethality. JCM provides double the range of Hellfire (16,000 v. 8,000 meters for helicopter launches) allowing flight crews to take full advantage of target acquisition and guidance systems.

The Joint Common Missile (JCM) program was designed to mitigate missile credibility gaps identified by the Joint Capabilities Integration and Development System (JCIDS). The program had performed on schedule and on budget. In December 2004, the Department of Defense terminated the program choosing to assume temporary risk, and rely on less capable legacy missiles, or other guided munitions which address some of the same targets. In August of 2005, the Joint Requirements Oversight Council revalidated the requirement for Joint Common Missile.

Congress added funds in the Department of Defense Appropriations Act, 2006 to maintain the program (\$26,000,000 in Research, Development, Test and Evaluation, Army and \$4,000,000 in Research, Development, Test and Evaluation, Navy).

The Committee strongly encourages the Department of Defense to fully resource the Joint Common Missile program in order to provide flight crews with a weapon system that has greater engagement range, insensitive munitions technology and improved seeker, warhead and rocket motor technologies. Accordingly, the Committee recommends for Joint Common Missile in fiscal year 2007, appropriations of \$30,000,000 in Research, Development, Test and Evaluation, Army and \$5,000,000 in Research, Development, Test and Evaluation, Navy. The Committee strongly encourages the Department of Defense to fully fund the Joint Common Missile program in future budget requests.

## SPECIAL INTEREST ITEMS

Items for which additional funds have been provided as shown in the project level tables or in paragraphs using the phrase “only for” or “only to” in this report are congressional interest items for the purpose of the Base for Reprogramming (DD 1414). Each of these items must be carried on the DD Form 1414 at the stated amount, specifically addressed in the conference report. These items remain special interest items whether or not they are repeated in a subsequent conference report.

## REPROGRAMMING GUIDANCE FOR ACQUISITION ACCOUNTS

The Committee directs the Department of Defense to continue to follow the reprogramming guidance specified in the report accompanying the House version of the fiscal year 2006 Department of Defense Appropriations bill (H.R. 109–119). Specifically, the dollar threshold for reprogramming funds will remain at \$20,000,000 for procurement, and \$10,000,000 for research, development, test and evaluation. The Department shall continue to follow the limitation that prior approval reprogrammings are set at either the specified dollar threshold or 20% of the procurement or research, develop-

ment, test and evaluation line, whichever is less. These thresholds are cumulative. Therefore, if the combined value of transfers into or out of a procurement (P-1) line or research, development, test and evaluation (R-1) line exceeds the identified threshold, the Department of Defense must submit a prior approval reprogramming to the congressional defense committees. In addition, guidelines on the application of prior approval reprogramming procedures for congressional special interest items are established elsewhere in this report.

**RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY**

Fiscal year 2006 appropriation .....	\$11,060,666,000
Fiscal year 2007 budget request .....	10,855,559,000
Committee recommendation .....	11,834,882,000
Change from budget request .....	+979,323,000

This appropriation finances the research, development, test and evaluation activities of the Department of the Army.

**COMMITTEE RECOMMENDATION**

The Committee recommends an appropriation of \$11,834,882,000 for Research, Development, Test and Evaluation, Army which is \$774,216,000 more than the amount provided in fiscal year 2006 and \$979,323,000 more than the request for fiscal year 2007.

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
**[In thousands of dollars]**

R-1	Budget Request	Committee Recommended	Change from Request
<b>2 DEFENSE RESEARCH SCIENCES</b>	<b>137,568</b>	<b>157,968</b>	<b>+20,400</b>
Reduce program growth		-8,000	
Technology Commercialization and Management Network		2,000	
Cyber-Threat Analytics only for Cyber TA Phase 3 real-time detection/prevention of emerging internet threats including incorporation of IASM capabilities to guard against cyber-attack		5,000	
Advanced Research and Technology Initiative (ARTI)		4,000	
Advanced Carbon Nanotechnology Program		2,500	
Broad Spectrum Anti-Viral Host Oriented Therapeutics		1,000	
Functionally Integrated Reactive Surface Technologies (FIRST)		3,000	
Optical Technologies Research		2,000	
Imaging Research Center for Research of Disorders due to military training and performance		900	
Combat Mental Health Initiative		4,000	
Plasti-Bone Research		2,000	
Viral Biosensors		1,000	
Chemical Mechanical Planarization		1,000	
<b>3 UNIVERSITY RESEARCH INITIATIVES</b>	<b>68,545</b>	<b>84,545</b>	<b>+16,000</b>
Cyber Enabled Technology Program		1,000	
Desert Environmental Research only for the University-based GIS program initiative to enhance knowledge, skills and technology for DoD research facilities		2,500	
Collaboration Skills for Time Critical Teams - only to build on the success of the High-Rise Evacuation Learning Platform (HELP) program		1,500	
Nanosystems through Optical Biosensors		4,000	
Laboratory for Engineered Human Protection		2,000	
Physical and Behavioral Rehabilitation		1,000	
Nanomedical Technologies Research		2,000	
Nanocrystal Therapeutic Agents and Screening Tools		1,000	
Transmission Electron Microscope		1,000	
<b>4 UNIVERSITY AND INDUSTRY RESEARCH CENTERS</b>	<b>86,416</b>	<b>90,066</b>	<b>+3,650</b>
Program adjustment		-6,000	
Center for Ferroelectric Electronic-Photonic Nanodevices		1,600	
Nanosensor Stagegate Accelerator - U.S. Army Benet Laboratories, Watervliet Arsenal		1,000	
Northern California Institute for Research and Education		4,000	
Center for Advanced Sensors		1,500	
Florida Collaborative Development of Advanced Materials for defense applications		300	
Western Hemisphere Security Analysis Center (WHSAC)		1,000	
Transparent Nanocomposite Armor		250	

R-1	Budget Request	Committee Recommended	Change from Request
<b>6 MATERIALS TECHNOLOGY</b>	<b>18,822</b>	<b>40,122</b>	<b>+21,300</b>
Spinel Tactical Armor Manufacturing Production Technology		2,000	
Cutting Tools for Aerospace Materials		3,000	
FCA Advanced Ballistic Technology Program		3,000	
Future Affordable Multi-Utility Materials for the Army			
Future Combat Systems		2,000	
Control System for Laser Powder Deposition		300	
Improved Explosive Device Simulation in Different Soils		500	
Production of Turtle Shell Armor for E-SAPI and Future AP Threats		3,000	
Lightweight Transparent Armor for Force Protection		1,500	
Nanomanufacturing of Multifunctional Sensors		2,000	
Defense Materials Technology Center		1,000	
MEMS Sensors for Rolling Element Bearings		3,000	
<b>7 SENSORS AND ELECTRONIC SURVIVABILITY</b>	<b>38,428</b>	<b>52,678</b>	<b>+14,250</b>
Program adjustment		-5,000	
Vertical/Horizontal Integration of Space Technologies and Applications (VISTA)		3,200	
Advanced Detection of Explosives (ADE) Program		1,350	
High Brightness Diode Source (HiBriDS)		3,000	
Wearable Video Capture System		1,000	
Graphics Simulation Hardware		1,000	
ONYX OPTICS - Advanced Bonded Diamond for Optical Applications		3,000	
Single Crystal Chemical Vapor Deposition Diamond Lens Elements for High Energy Lasers		1,000	
Roll-to-Roll (R2R) Microelectronics in Support of FDI		1,700	
Network Enabled Combat Identification Program		4,000	
<b>9 AVIATION TECHNOLOGY</b>	<b>32,804</b>	<b>40,804</b>	<b>+8,000</b>
Aircraft Structural Condition Monitoring System (ASCM) for Diagnostics and Prognostics		2,000	
Center for Rotorcraft Innovation		4,000	
Test and Evaluation of Energy Attenuating Seat for Military Aircraft		2,000	
<b>10 ELECTRONIC WARFARE TECHNOLOGY</b>	<b>19,218</b>	<b>36,018</b>	<b>+16,800</b>
Dominant MOUT Viewer (DMV)		7,000	
Silver Fox Unmanned Aerial Vehicle - Army		3,500	
Integrated Information Technology Policy Analyses Research		2,000	
Xenon Light Source for Non Lethal Deterrence from Small Unmanned Aerial Vehicle		2,300	
Battlefield Connectivity, Multi-Level Secure Networks		2,000	

<b>R-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>11 MISSILE TECHNOLOGY</b>	<b>59,439</b>	<b>68,439</b>	<b>+9,000</b>
Materials Applications Research Center (UAB)		2,000	
Jam Resistent Technology for INS/GPS Precision		2,000	
Mariah II Hypersonic Wind Tunnel Development		5,000	
<b>13 ADVANCED CONCEPTS AND SIMULATION</b>	<b>16,181</b>	<b>21,681</b>	<b>+5,500</b>
Automated MIST -- Man-in-Simulant		1,000	
Photonics Center		4,500	
<b>14 COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY</b>	<b>59,304</b>	<b>98,904</b>	<b>+39,600</b>
Mobile Secure Wireless Sensor		1,200	
Component Optimization for Ground Systems (COGS)		2,000	
Liquid Desiccant-Based Atmospheric Water Generation		2,000	
Turbo Fuel Cell Engine		1,800	
Multi-Sensor Payloads for Unmanned Systems		1,800	
Nanofluids for Advanced Military Mobility Systems		1,300	
Defense Transportation Energy Research		3,000	
Transportable Synthetic Fuel Manufacturing Modules		2,000	
Defect-Free Commercially Viable Si/C Semiconductors Using Superlattice Technology		1,000	
HAMMER		6,000	
Rapid Product Development and Deployment Portal		1,000	
Globally Accessible Manufacturing Activity (GAMMA) for military repair parts		7,000	
Plasma JP-8 Fuel Reformer for military auxiliary power		2,700	
50% Weight Reduced, Multi-Hit Capable Transparent Vehicle Armor		1,800	
HMMWV Hybrid Technology Conversion Kits (IIT)		1,000	
Hydrogen PEM Ambient Pressure Fuel Cell			
Medium/Heavy Duty Vehicles		3,000	
Advanced Composite Materials Research for Air and Ground Vehicles		1,000	
<b>15 BALLISTICS TECHNOLOGY</b>	<b>52,221</b>	<b>57,021</b>	<b>+4,800</b>
StandOff Explosives Detector		1,000	
Advanced Tungsten Penetrators and Ballistic Materials		1,800	
TAC-C Robotic Vehicles for Special Operations Forces		2,000	



R-1	Budget Request	Committee Recommended	Change from Request
<b>19 ELECTRONICS AND ELECTRONIC DEVICES</b>	<b>42,175</b>	<b>85,975</b>	<b>+43,800</b>
Program adjustment		-5,000	
Tactical Jet-Fueled Fuel Cell Generator		3,000	
PEM Fuel Cell Tactical Generators		2,500	
Advanced High Energy Rechargeable Lithium Metal Air Battery		5,000	
Weapons of Mass Destruction Marking Set		2,000	
Flexible Polymer Multi-Laminate Packaging		2,000	
Direct Methanol Fuel Cell – Battery Recharger Program		1,000	
Soldier Fuel Cell System		2,000	
Non-Flammable, High Energy Density, Low Temperature Warrior Battery		1,000	
Pulse Tech Army Battery Management for Lithium Batteries		2,000	
Conformal Lithium Ion Polymer Battery Belt		2,000	
Renewable Energy for Military Applications		1,500	
ONAMI Miniature Tactical Energy Systems Development		1,000	
Field-Ruggedized Mid-Range Direct Methanol Fuel Cells		1,000	
Advanced Portable Power Institute		2,000	
Portable Solid Oxide Fuel Cell (SOFC)/JP-8 Demonstrator		2,000	
Revolutionary 1.5 Volt Alkaline Battery		1,500	
Thin Lithium-Iron Disulfide Primary Batteries		1,000	
Defense Systems Modernization and Sustainment Initiative		2,700	
E-Beam Reticle and Lithography Inspection Tool		4,000	
Nanofluidic Electronic BioSensor Technologies for Defense Applications		1,000	
Micromachined Switches in Support of Transformational Communications Architecture		2,000	
Manufacturing Technology Development of Advanced Components for High Power Solid State Lasers		3,600	
Q-Band Millimeter Wave Power Module for Tactical Satellite Communications		1,000	
Zinc Air Power Sources for Military Applications		2,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>20 NIGHT VISION TECHNOLOGY</b>	<b>23,907</b>	<b>45,857</b>	<b>+21,950</b>
Silicon-Based Alternate Substrates for Infrared Imagers		1,800	
Millimeter/Terahertz Imaging Arrays		2,250	
Advanced Multi-Spectral Fusion Sensors		1,350	
Eyesafe Pulsed Fiber Laser for LADAR		1,350	
Multispectrum Sensor Protection		1,350	
Mid-Wave Infrared Sensor Technologies		1,350	
Sensor Solutions for Unattended Surveillance		1,500	
Enhanced Micro-Image Display Technology		3,000	
Power Efficient Microdisplay Development for US Army Night Vision		3,000	
ISR - Radar Module Cooling System		3,000	
Miniaturized Sensors for Small and Tactical Unmanned Aerial Vehicles (MINISENS)		2,000	
<b>22 HUMAN FACTORS ENGINEERING TECHNOLOGY</b>	<b>18,858</b>	<b>41,858</b>	<b>+23,000</b>
Leonard Wood Research Institute		20,000	
MANPRINT		3,000	
<b>24 COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY</b>	<b>21,193</b>	<b>57,493</b>	<b>+36,300</b>
Integrated Lightweight Electronics Shelter		1,800	
Lightweight, Intra-theater Transportable Tactical Operations Center (TOC)		4,500	
Lightweight 10-Meter Antenna Mast		1,000	
Ruggedized Cylinders for Expandable Mobile Shelters		3,500	
Tactical Bandwidth Booster for Mobile Network Centric Warfare		2,000	
Improved Bandwidth for Battle Command Communications		4,000	
Enhanced Wireless Digital Communications for Urban First Responders		5,000	
Ultra Wideband Chipset Technology		1,000	
Communications Electronics Cost Module for Quick Response (CECM)		2,000	
Digital Alert Display for Army Commanders		3,000	
USB Data Acquisition for Voice Recognition/Response		2,000	
Hospital Emergency Planning and Integration System		2,000	
Highly Mobile Large-Scale C4ISR Command Post Systems, C-130 Compatible Command Trailer		3,000	
Dynamically Managed Data Dissemination (DMDD)		1,500	

R-1	Budget Request	Committee Recommended	Change from Request
<b>25 COMPUTER AND SOFTWARE TECHNOLOGY</b>	<b>3,844</b>	<b>6,844</b>	<b>+3,000</b>
Commercial Off The Shelf Military (COTS-M) Scout Robot		3,000	
<b>26 MILITARY ENGINEERING TECHNOLOGY</b>	<b>50,098</b>	<b>50,698</b>	<b>+600</b>
Program adjustment		-4,000	
Army Power and Energy Initiative		3,600	
National Fuel Cell Research Center to advance fuel cell technology for military applications		1,000	
<b>28 WARFIGHTER TECHNOLOGY</b>	<b>25,436</b>	<b>38,536</b>	<b>+13,100</b>
Development of Protective Textile Fabric		1,500	
Precision Guided Air-Dropped Equipment		3,600	
Chemical and Biological-Protective Hangers (CAB-PH)		2,000	
Advanced Warfighter Sustainment Systems for the 21st Century (AWSS-21)		2,000	
Solar Powered Refrigerated Container for Food and Medicine Storage		2,000	
Army Combat Uniform Advanced Fabric Treatment Technology Demonstration		1,000	
Center of Excellence for High Performance Fibers at Natick Soldier Center		1,000	
<b>29 MEDICAL TECHNOLOGY</b>	<b>75,407</b>	<b>252,907</b>	<b>+177,500</b>
Advanced Antimicrobial-Nano Technology		1,000	
Advanced Proteomics for Military Clinical Applications		1,500	
Applied and Clinical Prosthetic Research Program at the Walter Reed Amputee Center		6,000	
DoD Biological and Immunological Infectious Agent and Cancer Vaccine Research		2,500	
Biomarkers: Evaluating and Treating Acute and Chronic TBI		2,250	
Biomedical Materials Initiative		2,000	
Bone and Tissue Repair and Regeneration Center		1,000	
Bone Health and Military Medical Readiness		1,000	
Center for Advanced Surgical and Interventional Technology (CASIT)		3,000	
Center for Diagnosis of Pathogens		2,000	
Center for Research on Integrative Medicine in the Military (CRIMM)		2,000	
Center for Respiratory Biodefense		1,000	
Center for the Advanced Studies of Brain Injury		1,500	

R-1	Budget Request	Committee Recommended	Change from Request
CIC Interdisciplinary Research for Prevention, Diagnosis and Treatment of Cancer		5,000	
Combat Stress Intervention Program		1,800	
Comprehensive Management Initiative for Chronic Diseases (CMICD)		1,800	
Computer-Based Training Methods for Surgical Training		1,000	
CRF Spinal Cord Injury Clinical Trials DoD Research Initiative		2,500	
Development of Minimally Invasive Cardiac-Assist Devices		1,000	
Diabetes Research - Madigan Army Medical Center		500	
Early and Rapid Analyzer for Diagnosis of Heart Attacks		1,000	
Elgen Gene-based Vaccine Delivery Technology Program		1,500	
Epigenetic Origin of Disease Research for Casualty Detection, Avoidance, Evacuation and Treatment		500	
DoD Evaluation of p75 protein for Non-surgical Treatment of Central Nervous System Trauma		1,000	
Hydrogen Sulfide Human Health and Disease Research IDEAnet		500	
Immunostimulating HIV Therapy		1,000	
Improving Musculoskeletal Health and Function		2,000	
Infectious Disease Research		1,000	
Northern California Institute for Research and Education		4,000	
Integrated Medicine, Communications, Compassion, Chronic Care Program (IC4)		2,500	
Integrated Multimedia Medical Record		2,500	
Lehman Injury Research Center/Ryder Trauma Center		1,300	
Life Science Research Initiative		1,000	
MCIS Portable Clinical Information Initiative		1,000	
Medical Area Network for Virtual Technology		5,400	
Medical Image Database Holographic Archiving Library System (MID-HALS)		1,000	
Medical Resources Conservation Technology System		2,500	
Military Interoperable Digital Hospital Testbed		5,000	
Military Molecular Medicine Initiative (M3I) (Note: only for the continuation of a public/private effort, in coordination with a rural non-profit biomedical research institute and a non-profit medical foundation, to provide a consolidated program of molecular studies of chronic diseases including breast cancer, diabetes, heart disease, and obesity, in the areas of risk assessment, diagnosis, treatment, and research for the Department of Defense.)		20,000	
Nanofabricated Bioartificial Kidney		2,700	
National Center for Cancer Prevention through Remote Biological Sensing		2,000	
National Eye Evaluation and Research for Defense Applications		5,000	

R-1	Budget Request	Committee Recommended	Change from Request
		1,800	
		5,000	
		2,000	
		1,000	
		9,000	
		1,000	
		13,000	
		2,000	
		2,000	
		1,500	
		1,500	
		1,000	
		1,000	
		1,500	
		1,000	
		1,000	
		2,000	
		10,000	
		2,000	
		1,000	
		2,250	
		2,700	
		1,000	
		1,000	
		4,500	
<b>30</b>	<b>WARFIGHTER ADVANCED TECHNOLOGY</b>		
	45,666	63,666	+18,000
		2,500	
		2,000	
		4,000	
		3,000	

R-1	Budget Request	Committee Recommended	Change from Request
		3,000	
		1,000	
		1,000	
		1,500	
<b>31 MEDICAL ADVANCED TECHNOLOGY</b>	<b>50,757</b>	<b>357,907</b>	<b>+307,150</b>
		1,500	
		1,800	
		1,000	
		3,000	
		1,800	
		2,000	
		3,000	
		2,000	
		1,500	
		2,000	
		2,000	
		2,700	
		7,500	
		2,500	
		2,000	
		1,000	
		2,000	
		1,000	
		2,500	
		1,000	
		2,700	
		1,000	
		1,000	
		12,000	

R-1	Budget Request	Committee Recommended	Change from Request
		1,800	
Center for Proteomics		3,000	
Center for Resuscitation Research		1,000	
Center for Targeted Cancer Therapy (NCTCT)		1,000	
Center for Untethered Healthcare in the Military		4,000	
Cancer Genomics Center for Women in the Military			
Ophthalmology Research on Surgical Techniques and Treatment Modalities for Wounded Soldiers at Wills Eye Center		2,500	
Military Dependant Childhood Cancer Research (USOC/COG)		3,000	
Chitosan Hemorrhage Control Dressing		3,000	
Combat Casualty Care Medical Technology Surgical Skills Lab		1,900	
Combat Medic Training		1,350	
Consortium on Preparedness Infectious Disease Research and Emergency, Bioterrorism and Pandemic Preparedness		1,000	
Cooperative International Neuromuscular Research		3,000	
Diabetes Management Program		100	
Diagnostic and Therapeutic Cancer Care Equipment		5,000	
DMCT Medical/Training Technology Enhancement Initiative - Pocket PC		2,000	
Duchenne Muscular Dystrophy (DMD) Repair and Regeneration Clinical Trials		1,800	
Durable Antimicrobial Technology for Healthcare Environments		2,000	
Exceptional Family Transition (EFTT) for Soldiers, Sailors, Marines, and Airmen		1,000	
Fibrinogen Bandages for Military Use		4,000	
Field Medical Robotics for Military Combat Casualty Care		1,000	
Genomic Medicine and Gene Therapy		4,000	
Gynecological Disease Program		4,500	
Hospital of the Future Program		2,700	
Human Organ and Tissue Preservation Technology		2,000	
Institute for Human Genetics and Military Health		4,000	
Intelligent Orthopedic Fracture Implant Program		1,000	
Joint Collaborative Medical Information System (JCMIS)		2,700	
Joint US-Norwegian Telemedicine Program		2,000	
Joslin Diabetes Center		2,700	
Medvisor Secure Telemedicine		2,000	
Metadata Language and Toolset		2,400	

R-1	Budget Request	Committee Recommended	Change from Request
		2,000	
		3,000	
		3,600	
		2,000	
		12,000	
		2,500	
		15,000	
		2,250	
		26,500	
		1,000	
		2,000	
		2,000	
		3,000	
		4,500	
		1,000	
		2,700	
		1,000	
		3,000	
		2,000	
		1,000	
		2,700	
		1,300	
		2,800	
		7,200	
		1,000	
		1,500	
		5,400	
		2,000	
		2,500	

R-1	Budget Request	Committee Recommended	Change from Request
Soldier Health Promotion and Preventative Medicine Strategies		2,000	
Spinal Muscular Atrophy Research		3,500	
Surgical Wound Disinfection and Biological Agents		1,000	
Targeted Radiation Therapy for Cancer Initiative Technologies for Metabolic Monitoring of Solider Physiology (JWF Initiative)		3,000	
Electronic Medical Records Technology Infrastructure		1,500	
Telehealth and Medical Applications for Combat Injuries		2,000	
Patient Monitor/Defibrillator for the Wounded Warrior		3,000	
Tissue and Limb Transplantation Medical Technology Development		2,500	
Trauma Insitute of San Antonio (TRISTAT)		1,000	
UCSF Gallo Center Neurological Research		6,000	
Ultra Hgh Resolution Display for Army Medicine		3,000	
Ultra High-Speed MEMS Electromagnetic Cell Sorter		3,000	
Universal Medical/Surgical Product Catalog for the Department of Defense		3,500	
Veterinary Manpower Development for Defense		500	
Walter Reed Army Hospital Research Sustainment		10,000	
Weight Measurements and Standards for Military Personnel		1,750	
WFU Health Sciences Regenerative Research for Military Medicine		2,000	
Wireless Personal Information Carrier (WPIC) (Note: Only to complete development and to productionize the WPIC wireless dog tag system)		2,500	
<b>32 AVIATION ADVANCED TECHNOLOGY</b>	<b>64,654</b>	<b>95,654</b>	<b>+31,000</b>
Composite Tail for Armed Reconnaissance Helicopter		1,000	
Process Technologies for Replacement Part Production		6,000	
Small Heavy Fuel Engine (SHFE) VAATE Program		2,000	
Drive System Composite Structural Component Reduction Program		2,000	
Lightweight Sapphire Transparent Armor for Rotorcraft		1,000	
Heavy Fuel Burning Engines for UAVs - only to complete engine testing and flight tests with UAV prototypes		4,000	
Rapid Prototyping for Special Projects		6,000	



R-1	Budget Request	Committee Recommended	Change from Request
Secure Pervasive Computing for Advanced Combat Vehicles		2,000	
Mobile Armor Plant: In-Theater Battlefield Expedient Armor Manufacturing		2,000	
Advanced Drivetrains for Enhanced Mobility and Safety		1,500	
Light Weight Structural Composite Armor for Blast and Ballistic Protection		4,000	
Development of Logistical Fuel Processors to Meet Army/TARDEC/TACOM Needs		3,700	
Cross-Cue APS Radar		2,000	
Advanced Thermal Management System		5,000	
Fire Resistant Fuels		2,000	
Army Tactical RPG Airbag Protection System (TRAPS)		3,500	
LEAN Digital Product Development		1,000	
Antiballistic Windshield Armor (AWA)		2,000	
Fuel Cell Ground Support Equipment		2,000	
Mobile Information Distribution and Access-Control System (MIDAS)		2,800	
Light Weight Medium Tactical Trailer - Advanced Technology Development		1,000	
Lightweight Armor Ready Composite Cab		3,000	
Versatile Utility Vehicle		4,000	
Advanced Tactical Vehicle Safety and Reliability		2,100	
3D Advanced Battery Technology (3D ABT)		5,000	
High Speed Diesel Combustion		5,500	
Digital Humans and Virtual Reality for Future Combat Systems		1,200	
Center for Innovative Materials Research (CIMR) Vehicle Armor Application Development		1,000	
Low Quantity Precision Fabrication		3,000	
National Center for Titanium Machining		2,000	
CCMMC Lightweight Diesel Engine Initiative for Army Ground Vehicles		2,700	

R-1	Budget Request	Committee Recommended	Change from Request
<b>COMMAND, CONTROL, COMMUNICATIONS</b>			
<b>35 ADVANCED TECHNOLOGY</b>	<b>10,851</b>	<b>12,651</b>	<b>+1,800</b>
Exportable Combat Training Centers (E-CTC) - only for NTC to expand RIPPLE Program		1,800	
<b>37 ELECTRONIC WARFARE ADVANCED TECHNOLOGY</b>	<b>44,022</b>	<b>55,322</b>	<b>+11,300</b>
Applied Communications and Information Networking (ACIN) Program		6,000	
Joint Unified Maritime Protection system (JUMPS)		1,800	
Portable Mobile Emergency Broadband Systems		2,000	
Advanced Wireless Technologies		1,500	
<b>NEXT GENERATION TRAINING &amp; SIMULATION SYSTEMS</b>			
<b>39</b>	<b>18,296</b>	<b>19,296</b>	<b>+1,000</b>
Vigilant Auto-ID and Access Control System		1,000	
<b>41 IED DEFEAT TECHNOLOGY DEVELOPMENT</b>	<b>0</b>	<b>1,800</b>	<b>+1,800</b>
IED Electronic Signature Detection		1,800	
<b>42 EXPLOSIVES DEMILITARIZATION TECHNOLOGY</b>	<b>10,376</b>	<b>18,376</b>	<b>+8,000</b>
Sierra Army Depot (SIAD) Cryofracture/Plasma Arc System		2,000	
Demilitarization of Obsolete Munitions		4,000	
Missile Recycling Capability (MRC) RDT&E for Ammonium Percharate		2,000	
<b>43 MILITARY HIV RESEARCH</b>	<b>7,042</b>	<b>15,042</b>	<b>+8,000</b>
Test, Treatment and Preventive Vaccines		8,000	
<b>COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT</b>			
<b>44</b>	<b>7,497</b>	<b>9,497</b>	<b>+2,000</b>
Advanced Mobile Microgrid Fueler		2,000	
<b>46 ELECTRONIC WARFARE TECHNOLOGY</b>	<b>18,612</b>	<b>28,412</b>	<b>+9,800</b>
Advanced IED Jammer Research and Development Program		2,000	
Portable Level I Fusion Toolset		2,300	
US Army Future Force ELINT		2,500	
Aerial Canopy MASINT System (ACMS)		1,000	
WIZARD -- Remotely Controlled Improvised Explosive Device Countermeasures (RCIED) Equipment for Dismounted Soldiers		2,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>47 MISSILE AND ROCKET ADVANCED TECHNOLOGY</b>	<b>42,127</b>	<b>65,627</b>	<b>+23,500</b>
Persistent Surveillance for Active Protection of Army Ground and Air Vehicles		4,000	
Cessna Optionally Piloted Aircraft (COPA) including Reconnaissance, Surveillance, and Target Acquisition (RSTA) integration		10,000	
Close Combat Lethal Recon (CCLR)		2,000	
FTT50 High Efficiency Turbine Engine		3,000	
Compact Kinetic Energy Missile		2,500	
Smart Energetics Architecture for Missile Systems		2,000	
<b>LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY</b>			
<b>49 TECHNOLOGY</b>	<b>25,554</b>	<b>27,054</b>	<b>+1,500</b>
EDIT Advanced Landmine Detection		1,500	
<b>50 JOINT SERVICE SMALL ARMS PROGRAM</b>	<b>7,202</b>	<b>9,202</b>	<b>+2,000</b>
Lightweight Small Arms Technology (LSAT)		2,000	
<b>51 NIGHT VISION ADVANCED TECHNOLOGY</b>	<b>44,307</b>	<b>68,107</b>	<b>+23,800</b>
Buster Backpack		5,000	
Camera Assisted Monitoring System (CAMS)		7,000	
EO Sensor Technology for Suicide Bomber Detection		4,000	
Additive Night Vision Capabilities for Deployed Systems		1,800	
Ubiquitously Persistent Surveillance (UPS) for Force Protection		2,000	
Intelligent Surveillance Sensor Suite (Cerberus)		4,000	
<b>ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS</b>			
<b>52 DEMONSTRATIONS</b>	<b>14,089</b>	<b>18,089</b>	<b>+4,000</b>
Alternate Power Fuel Cell Demonstration at Fort Irwin only to continue and expand the High Electric Efficiency Planar Solid Oxide Fuel Cell System Cluster Demonstration		4,000	
<b>53 MILITARY ENGINEERING ADVANCED TECHNOLOGY</b>	<b>7,848</b>	<b>19,848</b>	<b>+12,000</b>
Frameworks for Rapid Engineering Design Optimization			
Management Software for military vehicle application		1,000	
Defense Applications of Carbonate Fuel Cells		3,000	
Accelerating the Transition of Fuel Cell Systems Through Life-Cycle Engineering		3,000	
Counter Rocket, Artillery, Mortar (C-RAM) Armor Development		1,000	
Advanced Structures and Composites in Construction for Protective Structures		2,000	
Fuel Cell Hybrid Generation System - Ramgen Technology		2,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>ADVANCED TACTICAL COMPUTER SCIENCE &amp; SENSOR TECHNOLOGY</b>	<b>64,604</b>	<b>76,004</b>	<b>+11,400</b>
Bi-Directional English-Iraqi Instant Language Translation System for the Warfighter		2,400	
Digital Array Radar (DAR) Technology Development		2,000	
Communications Electronics Cost Module for Quick Response (CECM) for military force structure/systems development		7,000	
<b>DEMONSTRATION &amp; VALIDATION</b>			
<b>55 UNIQUE ITEM IDENTIFICATION (UID)</b>	<b>1,520</b>	<b>9,520</b>	<b>+8,000</b>
AERAM Turbine Engine Development		4,000	
Geospatial Airship Research Platform (GARP)		4,000	
<b>56 ARMY MISSILE DEFENSE SYSTEMS INTEGRATION</b>	<b>11,233</b>	<b>68,933</b>	<b>+57,700</b>
Standoff Sensor for Radionuclide ID (SSRID) Program		3,000	
Multiple Component Army Flight Test		3,000	
Advanced Battery Technology		3,000	
Modeling Environment for Target Scenario Testing		1,000	
Combustion Driven Compaction		1,000	
Orion High Altitude Long Loiter UAV		11,000	
Ultra Light UAV Sensor Platform		4,500	
Next Generation Passive Sensors		2,500	
Dielectric Enhanced Sensor Systems		2,500	
Aero Acoustic Test Facility (Phase II)		3,000	
Technology Transfer from Missile Defense for Improved Medical Imaging		2,000	
Hypersonic Thermal Protection Materials Development		2,000	
Standoff Hazardous Agent Detection and Evaluations System (SHADES)		2,000	
Joint Wavelet Transform of Hyperspectral Data for space and missile defense		2,700	
Army Missile Defense Systems Integration (Non Space) - Integrated Modeling of Air and Ground Environments (IMAGE)		3,000	
Radiation Hardening Technology Knowledge Based (HardBase)		2,000	
Micro Seeker System for Small Steerable Projectiles		2,000	
Advanced Hypersonic Weapon BMC2 Hardware in the Loop HWIL Technology Demonstration		3,000	
Next Generation Advanced Materials Research		2,000	
Thermal and Electrical Nanoscale Transport (TENT)		1,500	
Advanced Fuel Cell Research Program		1,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>58 AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING</b>	<b>143,417</b>	<b>149,117</b>	<b>+5,700</b>
MultiView Integrated Engineering Environment Pilot		3,700	
Joint Awareness Warfighter - Space (JAWS)		2,000	
<b>61 TANK AND MEDIUM CALIBER AMMUNITION</b>	<b>0</b>	<b>2,000</b>	<b>+2,000</b>
Mid-Range Munition - CE		2,000	
<b>62 ADVANCED TANK ARMAMENT SYSTEM (ATAS)</b>	<b>5,415</b>	<b>11,215</b>	<b>+5,800</b>
M151E2 Protector Integration on Light Tactical Vehicle Program		1,800	
Stryker Vehicle Open Architecture Electronic Enhancements		4,000	
<b>63 SOLDIER SUPPORT AND SURVIVABILITY</b>	<b>2,778</b>	<b>5,278</b>	<b>+2,500</b>
Biodegradable Soil Penetrant Dust Palliative for Land Surfaces		2,500	
<b>66 ENVIRONMENTAL QUALITY TECHNOLOGY</b>	<b>5,166</b>	<b>28,566</b>	<b>+23,400</b>
Strategic Biofuel Supply Program		3,000	
Arsenic Removal		2,000	
Biowastes to Bioenergy		1,000	
Biodiesel Plastic Recycling for Reduction of Battlefield Clutter		5,000	
No Rinse Decontamination of Battlefield Equipment		1,000	
Vanadium Technology Partnership		3,000	
Regional Sustainability Solutions		2,700	
Mission Critical ESOH Technology Transition		2,700	
Western Hemisphere Information Exchange Program		2,000	
Plasma Energy Pyrolysis System(PEPS) Gasification Unit		1,000	
<b>67 WARFIGHTER INFORMATION NETWORK-TACTICAL</b>	<b>158,157</b>	<b>118,157</b>	<b>-40,000</b>
Program decrease		-40,000	
<b>73 MEDICAL SYSTEMS - ADVANCED DEVELOPMENT</b>	<b>11,973</b>	<b>27,373</b>	<b>+15,400</b>
Electroosmotic Pain Therapy System Adjustable Rate			
Implantable Drug Delivery System		1,000	
Future Medical Shelter System		10,000	
Future Medical Shelter System - 44/48 Bed Combat Support Hospital		3,400	
Iraqi Skin Disease Test		1,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>74 SOLDIER SYSTEMS - ADVANCED DEVELOPMENT</b>	<b>10,605</b>	<b>12,605</b>	<b>+2,000</b>
Nickel Boron Metal Coating Technology for Crew Served Weapons		2,000	
<b>ENGINEERING &amp; MANUFACTURING DEVELOPMENT</b>			
<b>78 AIRCRAFT AVIONICS</b>	<b>61,946</b>	<b>44,646</b>	<b>-17,300</b>
Program adjustment		-20,000	
Army Airborne Avionics (AAA) Improved Data Modem		2,700	
<b>79 ARMED, DEPLOYABLE OH-58D</b>	<b>132,781</b>	<b>112,781</b>	<b>-20,000</b>
Program adjustment		-20,000	
<b>80 ELECTRONIC WARFARE DEVELOPMENT</b>	<b>41,655</b>	<b>47,255</b>	<b>+5,600</b>
AN/APR-39A(V)X Digital Receiver Upgrade		1,800	
Warrior SIGINT Capability		2,000	
Blue Marauder System		1,800	
<b>81 JOINT TACTICAL RADIO</b>	<b>832,259</b>	<b>797,259</b>	<b>-35,000</b>
Program adjustment		-35,000	
<b>84 COMMON MISSILE</b>	<b>0</b>	<b>30,000</b>	<b>+30,000</b>
Program sustainment		30,000	
<b>85 INFANTRY SUPPORT WEAPONS</b>	<b>31,748</b>	<b>37,648</b>	<b>+5,900</b>
Durable Nylon/Cotton Army Combat Uniform Fabric		2,400	
CROWS Lightning Integrated Acoustic Sensor		2,000	
Development of Enhanced Self-Sintered Silicon Carbide Body Armor		1,500	
<b>86 MEDIUM TACTICAL VEHICLES</b>	<b>1,925</b>	<b>5,925</b>	<b>+4,000</b>
Future Track Over Tire System		400	
Universal Diagnostic Data Management system (UDDMS)		3,800	
<b>89 FAMILY OF HEAVY TACTICAL VEHICLES</b>	<b>3,960</b>	<b>8,660</b>	<b>+4,700</b>
Heavy Expanded Mobility Tactical Truck A3 (HEMTT A3) System Deployment and Demonstration Project		2,000	
Family of Army Scalable Trailers (FAST)		2,700	
<b>91 LIGHT TACTICAL WHEELED VEHICLES</b>	<b>0</b>	<b>10,000</b>	<b>+10,000</b>
PM Program for Bloc Improvement Program (HMMWV)		10,000	
<b>ARMORED SYSTEMS MODERNIZATION (ASM)- SYSTEM DEVELOPMENT AND DEMONSTRATION</b>	<b>3,310,477</b>	<b>2,984,677</b>	<b>-325,800</b>
Improved Program Cost Control		-325,800	

R-1	Budget Request	Committee Recommended	Change from Request
<b>NIGHT VISION SYSTEMS - SYSTEM DEVELOPMENT AND DEMONSTRATION</b>	<b>38,821</b>	<b>43,621</b>	<b>+4,800</b>
95 Digital Enhanced Night Vision Goggle		3,000	
Soldier Wearable Acoustic Targeting System (SWATS)		1,800	
<b>DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SYSTEM DEVELOPMENT AND DEMONSTRATION</b>	<b>19,596</b>	<b>21,896</b>	<b>+2,300</b>
103 Joint Training Integration and Evaluation Center (JTIEC)		2,300	
<b>107 COMBINED ARMS TACTICAL TRAINER (CATT) CORE</b>	<b>39,901</b>	<b>40,901</b>	<b>+1,000</b>
Gunner Crew Chief Station Program		1,000	
<b>WEAPONS AND MUNITIONS - SYSTEM DEVELOPMENT AND DEMONSTRATION</b>	<b>130,581</b>	<b>138,081</b>	<b>+7,500</b>
110 HYBRID Propellant		4,000	
XM932 120mm Mortar - Short Range Practice Cartridge		1,500	
30mm Airburst Ammunition		2,000	
<b>LOGISTICS AND ENGINEER EQUIPMENT - SYSTEM DEVELOPMENT AND DEMONSTRATION</b>	<b>40,301</b>	<b>43,801</b>	<b>+3,500</b>
111 2 kw Military Tactical Generators		1,500	
Improved Environmental Control Unit		2,000	
<b>COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SYSTEM DEVELOPMENT AND DEMONSTRATION</b>	<b>10,783</b>	<b>15,283</b>	<b>+4,500</b>
112 Software Based VOIP only for Army Reserve implementation and deployment of Spherical JITC/DISA certified VOIP PBX-1 Technology		3,000	
HIMARS Enhanced Command and Control (C2), XM142		1,500	
<b>MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT</b>	<b>14,509</b>	<b>24,109</b>	<b>+9,600</b>
113 Battlefield Respirator and Ventilator (BRAV)		3,600	
Life Support for Trauma and Transport (LSTAT)		4,000	
Plasma Sterilizer		1,000	
Oxygen Generation Systems Advanced Development		1,000	
<b>LANDMINE WARFARE/BARRIER - SYSTEM DEVELOPMENT AND DEMONSTRATION</b>	<b>118,078</b>	<b>122,078</b>	<b>+4,000</b>
114 Magneto Inductive Remote Activation Munition System (MI-RAMS) XM40 Hybrid		4,000	
<b>GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBs)</b>	<b>61,194</b>	<b>21,994</b>	<b>-39,200</b>
120 Program adjustment		-39,200	
<b>127 INFORMATION TECHNOLOGY DEVELOPMENT</b>	<b>70,185</b>	<b>61,385</b>	<b>-8,800</b>
Future Business System		-9,800	
ARDEC Knowledgebase System		1,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>RDT&amp;E MANAGEMENT SUPPORT</b>			
<b>128 THREAT SIMULATOR DEVELOPMENT</b>	<b>21,180</b>	<b>23,180</b>	<b>+2,000</b>
Integration of Live and Virtual Threats -Towsend Range		2,000	
<b>129 TARGET SYSTEMS DEVELOPMENT</b>	<b>10,928</b>	<b>13,928</b>	<b>+3,000</b>
Next Generation Ice Protection Technologies for Unmanned Aerial Vehicles		3,000	
<b>130 MAJOR TEST AND EVALUATION INVESTMENT</b>	<b>64,953</b>	<b>67,453</b>	<b>+2,500</b>
US Army Network Centric Warfare-Digital Battlefield Instrumentation		2,500	
<b>133 CONCEPTS EXPERIMENTATION PROGRAM</b>	<b>21,626</b>	<b>25,126</b>	<b>+3,500</b>
Automated Language Translation		3,500	
<b>ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS</b>			
<b>136 TARGETS</b>	<b>74,066</b>	<b>77,066</b>	<b>+3,000</b>
Mobile Optical Tracking System		3,000	
<b>137 SURVIVABILITY/LETHALITY ANALYSIS</b>	<b>40,780</b>	<b>42,780</b>	<b>+2,000</b>
Rotorcraft Survivability Assessment Facility		2,000	
<b>143 SUPPORT OF OPERATIONAL TESTING</b>	<b>80,057</b>	<b>81,057</b>	<b>+1,000</b>
Track Conversion System for Light Wheeled Vehicles and Unmanned Ground Vehicles		1,000	
<b>148 TECHNICAL INFORMATION ACTIVITIES</b>	<b>34,834</b>	<b>51,834</b>	<b>+17,000</b>
Knowledge Integration and Management Center of Excellence - only for improving Actionable Intelligence and Fusion for Situational Understanding		2,000	
Army High Performance Computing Research Center		15,000	
<b>MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY</b>			
<b>149 AND SAFETY</b>	<b>18,726</b>	<b>36,126</b>	<b>+17,400</b>
Mitigation of Energetic Single Point Failures		3,500	
Advanced Cluster Energetics (ACE)		4,000	
Cadmium Zinc Telluride Detectors for Automated Munitions Inspection		2,000	
MEMS Nano Consortium		4,000	
Munitions Standardization, Effectiveness and Safety		1,400	
Gun Propellant Demilitarization		2,500	

R-1	Budget Request	Committee Recommended	Change from Request
<b>155 AEROSTAT JOINT PROJECT OFFICE</b>	<b>264,491</b>	<b>245,491</b>	<b>-19,000</b>
Joint Land Attack Cruise Missile Defense (JLENS)		-20,000	
MEMS Demonstration Radar System (MEMS DRS)		1,000	
<b>ADVANCED FIELD ARTILLERY TACTICAL DATA</b>			
<b>156 SYSTEM</b>	<b>17,394</b>	<b>18,394</b>	<b>+1,000</b>
Fire Support Technology Improvement		1,000	
<b>157 COMBAT VEHICLE IMPROVEMENT PROGRAMS</b>	<b>12,741</b>	<b>16,741</b>	<b>+4,000</b>
Bradley Fighting Vehicle Turret Drive Electronics System on Chip Consolidation		4,000	
<b>AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS</b>			
<b>159 PROGRAMS</b>	<b>301,739</b>	<b>295,939</b>	<b>-5,800</b>
Aerial Common Sensor		-12,300	
CH-47 Maintenance Analysis Safety and Training Program		4,000	
Advanced Communications Intelligence for Army Intelligence Aircraft (COMINT)		2,500	
<b>161 DIGITIZATION</b>	<b>13,373</b>	<b>16,073</b>	<b>+2,700</b>
Digitization Support to Fort Hood-University XXI		2,700	
<b>173 SECURITY AND INTELLIGENCE ACTIVITIES</b>	<b>3,170</b>	<b>6,670</b>	<b>+3,500</b>
Mobile Objects for Net-Centric Operations		3,500	
<b>174 INFORMATION SYSTEMS SECURITY PROGRAM</b>	<b>23,828</b>	<b>24,751</b>	<b>+923</b>
MILS Separation Kernel Technology Demonstration		923	
<b>175 GLOBAL COMBAT SUPPORT SYSTEM</b>	<b>55,272</b>	<b>58,272</b>	<b>+3,000</b>
Army Legacy Systems Modernization (SAMS-E)-Standard Army Retail Supply Systems (SARSS)/Standard Army Ammunition System (SAAS) Integration		3,000	
<b>179 TACTICAL UNMANNED AERIAL VEHICLES</b>	<b>114,087</b>	<b>117,087</b>	<b>+3,000</b>
Smart Machine Platform Initiative		3,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>DISTRIBUTED COMMON GROUND/SURFACE</b>			
<b>181 SYSTEMS</b>	<b>120,562</b>	<b>140,112</b>	<b>+19,550</b>
Asymmetric Threat Response and Analysis Project (ATRAP)		4,500	
Joint Visualization System (JVS)		2,700	
IMaG-ATC and Net-Centric Imagery Applications for Fixed and Mobile Sites of Multi-Service Distributed Common Ground System - Army (DCGS-A)		5,000	
Intelligence Data Exchange for Execution and Planning, Distributed Common Ground Systems		5,000	
Blast Risk Analysis and Mitigation Application		2,350	
<b>183 END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES</b>	<b>68,075</b>	<b>101,375</b>	<b>+33,300</b>
Manufacturing Systems Demonstration for military machined parts application		3,000	
National Center for Defense Manufacturing and Machining		3,600	
Durable Gun Barrel Steel		1,000	
Advanced Ceramic Manufacturing and Machining Process Development		1,800	
Small Heavy Fuel Engines for Tactical UAVs		2,000	
Spring Suspended Airless Tires for Convoy Protection		6,000	
Reactive Atom Plasma Manufacturing of Silicon Carbide for Optics and Electronics		2,700	
Replicable Defense Manufacturing Management and Solutions System		1,800	
Industrial Preparedness		1,000	
Vehicle Common Armor Manufacturing Process (VCAMP)		4,400	
Short Pulse Laser Technology for Pulse Laser System Development for Turbine Engine Applications		2,000	
Virtual Parts Engineering Research Center (VPERC)		1,000	
Advanced Modeling Technology for Large Structure Titanium Machining		3,000	

## FUTURE COMBAT SYSTEMS (FCS)

The progress of the Army's Future Combat Systems (FCS) Program remains the focus of Army modernization. FCS is planned to make the Army combat brigade into a more deployable, lethal, survivable, and sustainable force. FCS fully embraces network centric operations including manned ground vehicles, unattended sensors, intelligent munitions, unmanned air vehicles and unmanned ground systems. Commonality in FCS manned ground systems should allow a reduced logistics tail, resulting in significant savings. However, the FCS program is expensive, with total investment cost estimated at \$160,700,000,000, and approaching \$200,000,000,000 when considering both FCS core elements and other Army programs that are required to deliver FCS's full potential. The FCS technology is very aggressive. The potential increase in military capability is impressive, but the Government Accountability Office reported in March 2006 that the program has not achieved the mature technologies and firm requirements that should have been achieved three years prior. Setting and refining FCS system-level requirements may not be complete until 2008. The FCS acquisition strategy calls for maturing technologies, designing systems, and preparing for production concurrently, a very high risk approach.

FCS program cost is estimated at \$160,700,000,000, which is an increase of 76 percent since the program began. The Committee notes that the Department of Defense has not yet prepared an independent estimate to validate the Army's current cost estimate. Low-rate production is planned to start in fiscal year 2012, and full-rate production is expected to start in fiscal year 2016. By the end of fiscal year 2025, the Army plans to have equipped 15 FCS brigade combat teams.

The Committee is a strong supporter of the Army effort to field brigade combat teams that are more deployable, lethal, survivable, and sustainable, and the Committee continues to provide robust funding support for the FCS program. The Committee recommends an appropriation of \$2,984,677,000 for Armored System Modernization Engineering Development for fiscal year 2007, an increase of \$226,706,000 above the amount provided in fiscal year 2006. Additional FCS funding is provided for the Non Line of Sight Launch System and for the Non Line of Sight Cannon.

The Committee is mindful however that in the year 2025, the Army will have only 15 FCS brigade combat teams out of the total force of 70 brigade combat teams. The Army will have 55 brigades that are equipped with essentially the same equipment as today. The Committee believes it is essential that FCS cost be carefully controlled and that programs to reset, recap, and upgrade the Abrams tanks, Bradley fighting vehicles, and other key items of equipment be fully resourced and executed. The Committee will work with the Army to ensure the readiness of all 70 brigade combat teams.

## BIOMASS CONVERSION DEFENSE APPLICATIONS

The Committee is aware of research into the use of renewable plant biomass as a source of fuel and chemical production, such as

that being performed at the Michigan State University Biomass Conversion Research Lab. The Committee directs the Department of Defense to study the use of Biomass Conversion as a possible solution to the problems presented by rising petroleum prices to determine if this research has application to the military, and strongly urges the Department to provide resources for such research efforts if that is the case.

PROGRAM RECOMMENDED

The total program recommended in the bill will provide the following in fiscal year 2007:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY			
BASIC RESEARCH			
IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	19,402	19,402	---
DEFENSE RESEARCH SCIENCES.....	137,568	157,968	+20,400
UNIVERSITY RESEARCH INITIATIVES.....	68,545	84,545	+16,000
UNIVERSITY AND INDUSTRY RESEARCH CENTERS.....	86,416	90,066	+3,650
	-----		
TOTAL, BASIC RESEARCH.....	311,931	351,981	+40,050
APPLIED RESEARCH			
MATERIALS TECHNOLOGY.....	18,822	40,122	+21,300
SENSORS AND ELECTRONIC SURVIVABILITY.....	38,428	52,678	+14,250
TRACTOR HIP.....	8,466	8,466	---
AVIATION TECHNOLOGY.....	32,804	40,804	+8,000
ELECTRONIC WARFARE TECHNOLOGY.....	19,218	36,018	+16,800
MISSILE TECHNOLOGY.....	59,439	68,439	+9,000
ADVANCED WEAPONS TECHNOLOGY.....	19,430	19,430	---
ADVANCED CONCEPTS AND SIMULATION.....	16,181	21,681	+5,500
COMBAT VEHICLE AND AUTOMOTIVE TECHNOLOGY.....	59,304	98,904	+39,600
BALLISTICS TECHNOLOGY.....	52,221	57,021	+4,800
CHEMICAL, SMOKE AND EQUIPMENT DEFEATING TECHNOLOGY....	2,212	13,212	+11,000
JOINT SERVICE SMALL ARMS PROGRAM.....	6,247	6,247	---
WEAPONS AND MUNITIONS TECHNOLOGY.....	35,344	109,944	+74,600
ELECTRONICS AND ELECTRONIC DEVICES.....	42,175	85,975	+43,800
NIGHT VISION TECHNOLOGY.....	23,907	45,857	+21,950
COUNTERMINE SYSTEMS.....	22,088	22,088	---
HUMAN FACTORS ENGINEERING TECHNOLOGY.....	18,858	41,858	+23,000
ENVIRONMENTAL QUALITY TECHNOLOGY.....	17,923	17,923	---
COMMAND, CONTROL, COMMUNICATIONS TECHNOLOGY.....	21,193	57,493	+36,300
COMPUTER AND SOFTWARE TECHNOLOGY.....	3,844	6,844	+3,000
MILITARY ENGINEERING TECHNOLOGY.....	50,098	50,698	+600
MANPOWER/PERSONNEL/TRAINING TECHNOLOGY.....	16,200	16,200	---
WARFIGHTER TECHNOLOGY.....	25,436	38,536	+13,100
MEDICAL TECHNOLOGY.....	75,407	252,907	+177,500
	-----		
TOTAL, APPLIED RESEARCH.....	685,245	1,209,345	+524,100

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ADVANCED TECHNOLOGY DEVELOPMENT			
WARFIGHTER ADVANCED TECHNOLOGY.....	45,666	63,666	+18,000
MEDICAL ADVANCED TECHNOLOGY.....	50,757	357,907	+307,150
AVIATION ADVANCED TECHNOLOGY.....	64,654	95,654	+31,000
WEAPONS AND MUNITIONS ADVANCED TECHNOLOGY.....	74,717	100,117	+25,400
COMBAT VEHICLE AND AUTOMOTIVE ADVANCED TECHNOLOGY.....	109,952	185,802	+75,850
COMMAND, CONTROL, COMMUNICATIONS ADVANCED TECHNOLOGY..	10,851	12,651	+1,800
MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY..	6,794	6,794	---
ELECTRONIC WARFARE ADVANCED TECHNOLOGY .....	44,022	55,322	+11,300
TRACTOR HIKE.....	9,324	9,324	---
NEXT GENERATION TRAINING & SIMULATION SYSTEMS.....	18,296	19,296	+1,000
TRACTOR ROSE.....	5,183	5,183	---
IED DEFEAT TECHNOLOGY DEVELOPMENT.....	---	1,800	+1,800
EXPLOSIVES DEMILITARIZATION TECHNOLOGY.....	10,376	18,376	+8,000
MILITARY HIV RESEARCH.....	7,042	15,042	+8,000
COMBATING TERRORISM, TECHNOLOGY DEVELOPMENT.....	7,497	9,497	+2,000
GLOBAL SURVEILLANCE/AIR DEFENSE/PRECISION STRIKE TECHN	12,995	12,995	---
ELECTRONIC WARFARE TECHNOLOGY.....	18,612	28,412	+9,800
MISSILE AND ROCKET ADVANCED TECHNOLOGY.....	42,127	65,627	+23,500
TRACTOR CAGE.....	19,192	19,192	---
LANDMINE WARFARE AND BARRIER ADVANCED TECHNOLOGY.....	25,554	27,054	+1,500
JOINT SERVICE SMALL ARMS PROGRAM.....	7,202	9,202	+2,000
NIGHT VISION ADVANCED TECHNOLOGY.....	44,307	68,107	+23,800
ENVIRONMENTAL QUALITY TECHNOLOGY DEMONSTRATIONS.....	14,089	18,089	+4,000
MILITARY ENGINEERING ADVANCED TECHNOLOGY.....	7,848	19,848	+12,000
ADVANCED TACTICAL COMPUTER SCIENCE & SENSOR TECHNOLOGY	64,604	76,004	+11,400
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	721,661	1,300,961	+579,300
DEMONSTRATION & VALIDATION			
UNIQUE ITEM IDENTIFICATION (UID).....	1,520	9,520	+8,000
ARMY MISSILE DEFENSE SYSTEMS INTEGRATION.....	11,233	68,933	+57,700
ARMY MISSILE DEFENSE SYSTEMS INTEGRATION (SPACE).....	11,771	11,771	---
AIR AND MISSILE DEFENSE SYSTEMS ENGINEERING.....	143,417	149,117	+5,700
LANDMINE WARFARE AND BARRIER - ADV DEV.....	8,439	8,439	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
SMOKE, OBSCURANT AND TARGET DEFEATING SYS-ADV DEV.....	10,714	10,714	---
TANK AND MEDIUM CALIBER AMMUNITION.....	---	2,000	+2,000
ADVANCED TANK ARMAMENT SYSTEM (ATAS).....	5,415	11,215	+5,800
SOLDIER SUPPORT AND SURVIVABILITY.....	2,778	5,278	+2,500
TACTICAL ELECTRONIC SURVEILLANCE SYSTEM - ADV DEV.....	20,077	20,077	---
NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT.....	5,337	5,337	---
ENVIRONMENTAL QUALITY TECHNOLOGY.....	5,166	28,566	+23,400
WARFIGHTER INFORMATION NETWORK-TACTICAL.....	158,157	118,157	-40,000
NATO RESEARCH AND DEVELOPMENT.....	4,946	4,946	---
AVIATION - ADV DEV.....	6,542	6,542	---
LOGISTICS AND ENGINEER EQUIPMENT - ADV DEV.....	13,216	13,216	---
COMBAT SERVICE SUPPORT CONTROL SYSTEM EVALUATION.....	8,645	8,645	---
MEDICAL SYSTEMS - ADV DEV.....	11,973	27,373	+15,400
SOLDIER SYSTEMS - ADVANCED DEVELOPMENT.....	10,605	12,605	+2,000
INTEGRATED BROADCAST SERVICE.....	1,135	1,135	---
TOTAL, DEMONSTRATION & VALIDATION.....	441,086	523,586	+82,500
ENGINEERING & MANUFACTURING DEVELOPMENT			
AIRCRAFT AVIONICS.....	61,946	44,646	-17,300
ARMED, DEPLOYABLE OH-58D.....	132,781	112,781	-20,000
ELECTRONIC WARFARE DEVELOPMENT.....	41,655	47,255	+5,600
JOINT TACTICAL RADIO.....	832,259	797,259	-35,000
ALL SOURCE ANALYSIS SYSTEM.....	7,074	7,074	---
TRACTOR CAGE.....	16,057	16,057	---
COMMON MISSILE.....	---	30,000	+30,000
INFANTRY SUPPORT WEAPONS.....	31,748	37,648	+5,900
MEDIUM TACTICAL VEHICLES.....	1,925	5,925	+4,000
SMOKE, OBSCURANT AND TARGET DEFEATING SYS-SDD.....	5,297	5,297	---
FAMILY OF HEAVY TACTICAL VEHICLES.....	3,960	8,660	+4,700
AIR TRAFFIC CONTROL.....	4,527	4,527	---
LIGHT TACTICAL WHEELED VEHICLES.....	---	10,000	+10,000
ARMORED SYSTEMS MODERNIZATION (ASM)-SDD.....	3,310,477	2,984,677	-325,800
NON-LIGHT OF SIGHT LAUNCH SYSTEM.....	322,880	322,880	---
NON-LINE OF SIGHT CANNON.....	112,237	112,237	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
NIGHT VISION SYSTEMS - SDD.....	38,821	43,621	+4,800
COMBAT FEEDING, CLOTHING, AND EQUIPMENT.....	3,017	3,017	---
NON-SYSTEM TRAINING DEVICES - SDD.....	121,553	121,553	---
AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE -SDD....	21,757	21,757	---
CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT.....	40,006	40,006	---
AUTOMATIC TEST EQUIPMENT DEVELOPMENT.....	8,136	8,136	---
DISTRIBUTIVE INTERACTIVE SIMULATIONS (DIS) - SDD.....	19,596	21,896	+2,300
COMBINED ARMS TACTICAL TRAINER (CATT) CORE.....	39,901	40,901	+1,000
JOINT NETWORK MANAGEMENT SYSTEM.....	5,187	5,187	---
WEAPONS AND MUNITIONS - SDD.....	130,581	138,081	+7,500
LOGISTICS AND ENGINEER EQUIPMENT - SDD.....	40,301	43,801	+3,500
COMMAND, CONTROL, COMMUNICATIONS SYSTEMS - SDD.....	10,783	15,283	+4,500
MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT	14,509	24,109	+9,600
LANDMINE WARFARE/BARRIER - SDD.....	118,078	122,078	+4,000
ARTILLERY MUNITIONS .....	102,554	102,554	---
COMBAT IDENTIFICATION.....	39	39	---
ARMY TACTICAL COMMAND & CONTROL HARDWARE & SOFTWARE...	69,172	69,172	---
RADAR DEVELOPMENT.....	2,527	2,527	---
GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEBS).....	61,194	21,994	-39,200
FIREFINDER.....	70,151	70,151	---
SOLDIER SYSTEMS - WARRIOR DEM/VAL.....	27,498	27,498	---
ARTILLERY SYSTEMS .....	1,650	1,650	---
PATRIOT/MEADS COMBINED AGGREGATE PROGRAM (CAP).....	329,583	329,583	---
NUCLEAR ARMS CONTROL MONITORING SENSOR NETWORK.....	7,428	7,428	---
INFORMATION TECHNOLOGY DEVELOPMENT.....	70,185	61,385	-8,800
<b>TOTAL, ENGINEERING &amp; MANUFACTURING DEVELOPMENT.....</b>	<b>6,239,030</b>	<b>5,890,330</b>	<b>-348,700</b>
RDT&E MANAGEMENT SUPPORT			
THREAT SIMULATOR DEVELOPMENT.....	21,180	23,180	+2,000
TARGET SYSTEMS DEVELOPMENT.....	10,928	13,928	+3,000
MAJOR T&E INVESTMENT.....	64,953	67,453	+2,500
RAND ARROYO CENTER.....	20,171	20,171	---
ARMY KWAJALEIN ATOLL.....	178,891	178,891	---
CONCEPTS EXPERIMENTATION PROGRAM.....	21,626	25,126	+3,500

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ARMY TEST RANGES AND FACILITIES.....	389,840	389,840	---
ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS.....	74,066	77,066	+3,000
SURVIVABILITY/LETHALITY ANALYSIS.....	40,780	42,780	+2,000
DOD HIGH ENERGY LASER TEST FACILITY.....	16,622	16,622	---
AIRCRAFT CERTIFICATION.....	4,580	4,580	---
METEOROLOGICAL SUPPORT TO RDT&E ACTIVITIES.....	8,571	8,571	---
MATERIEL SYSTEMS ANALYSIS.....	16,526	16,526	---
EXPLOITATION OF FOREIGN ITEMS.....	4,993	4,993	---
SUPPORT OF OPERATIONAL TESTING.....	80,057	81,057	+1,000
ARMY EVALUATION CENTER.....	60,129	60,129	---
SIMULATION & MODELING FOR ACQ, RQTS, & TNG (SMART)....	5,441	5,441	---
PROGRAMWIDE ACTIVITIES.....	72,214	72,214	---
TECHNICAL INFORMATION ACTIVITIES.....	34,834	51,834	+17,000
MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY...	18,726	36,126	+17,400
ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT.....	4,418	4,418	---
MANAGEMENT HEADQUARTERS (RESEARCH AND DEVELOPMENT)....	14,092	14,092	---
TOTAL, RDT&E MANAGEMENT SUPPORT.....	1,163,638	1,215,038	+51,400
OPERATIONAL SYSTEMS DEVELOPMENT			
MLRS PRODUCT IMPROVEMENT PROGRAM.....	74,506	74,506	---
WEAPONS CAPABILITY MODIFICATIONS UAV.....	16,532	16,532	---
AEROSTAT JOINT PROJECT OFFICE.....	264,491	245,491	-19,000
ADV FIELD ARTILLERY TACTICAL DATA SYSTEM.....	17,394	18,394	+1,000
COMBAT VEHICLE IMPROVEMENT PROGRAMS.....	12,741	16,741	+4,000
MANEUVER CONTROL SYSTEM.....	37,976	37,976	---
AIRCRAFT MODIFICATIONS/PRODUCT IMPROVEMENT PROGRAMS...	301,739	295,939	-5,800
AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	860	860	---
DIGITIZATION.....	13,373	16,073	+2,700
FORCE XXI BATTLE COMMAND, BRIGADE AND BELOW (FBCB2)...	26,375	26,375	---
MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM.....	10,770	10,770	---
OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS.....	19,706	19,706	---
TRACTOR CARD.....	7,242	7,242	---
JOINT TACTICAL COMMUNICATIONS PROGRAM (TRI-TAC).....	5,804	5,804	---
JOINT TACTICAL GROUND SYSTEM.....	15,044	15,044	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
JOINT HIGH SPEED VESSEL (JHSV).....	20,397	20,397	---
SECURITY AND INTELLIGENCE ACTIVITIES.....	3,170	6,670	+3,500
INFORMATION SYSTEMS SECURITY PROGRAM.....	23,828	24,751	+923
GLOBAL COMBAT SUPPORT SYSTEM.....	55,272	58,272	+3,000
SATCOM GROUND ENVIRONMENT (SPACE).....	41,336	41,336	---
WMCCS/GLOBAL COMMAND AND CONTROL SYSTEM.....	12,200	12,200	---
JOINT COMMAND AND CONTROL PROGRAM (JC2).....	4,057	4,057	---
TACTICAL UNMANNED AERIAL VEHICLES.....	114,087	117,087	+3,000
AIRBORNE RECONNAISSANCE SYSTEMS.....	12	12	---
DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	120,562	140,112	+19,550
AVIONICS COMPONENT IMPROVEMENT PROGRAM.....	1,031	1,031	---
END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES.....	68,075	101,375	+33,300
NATO JOINT STARS.....	688	688	---
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,289,268	1,335,441	+46,173
CLASSIFIED PROGRAMS.....	3,700	8,200	+4,500
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, ARMY.....	10,855,559	11,834,882	+979,323

## RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY

Fiscal year 2006 appropriation .....	\$18,803,203,000
Fiscal year 2007 budget request .....	16,912,223,000
Committee recommendation .....	17,654,518,000
Change from budget request .....	+742,295,000

The appropriation provides funds for the research, development, test and evaluation activities of the Department of the Navy, which includes the Marine Corps.

## COMMITTEE RECOMMENDATION

The Committee recommends an appropriation of \$17,654,518,000 for Research, Development, Test and Evaluation, Navy, which is \$1,148,685,000 less than the amount provided in fiscal year 2006 and \$742,295,000 more than the request for fiscal year 2007. The following report and project level tables provide a summary of the Committee's recommendation.

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
**[In thousands of dollars]**

<b>R-1</b>	<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>1 UNIVERSITY RESEARCH INITIATIVES</b>	<b>73,322</b>	<b>96,822</b>	<b>23,500</b>
Center for Southeastern Tropical Advanced Remote Sensing (CSTARS)		4,000	
Research infrastructure for the Applied Physics Laboratory		5,000	
Neurotechnology Center		3,000	
National security training		2,000	
Defense Commercialization Research Initiative Technology, Research, Education and Commercialization Center (TRECC)		5,000	
Smart, remote sensing systems using nanotechnology		3,000	
Center for Nanoscience and Nanomaterials (CNN)		1,500	
<b>3 DEFENSE RESEARCH SCIENCES</b>	<b>366,649</b>	<b>386,149</b>	<b>19,500</b>
Base program reduction		-8,000	
Navy use of ONOLS ships		5,000	
DoD Agile Manufacturing Center for Castings Technology (AMCast)		1,500	
ONAMI nanoelectronics and nanometrology initiative		2,500	
Standoff bio-chem agent detection		1,000	
Energetics S&T workforce revitalization		4,000	
Maritime domain awareness		2,500	
Carbon nanotube-based radiation-hard non-volatile RAM		9,000	
Mobile ad hoc data communications for unmanned systems		2,000	
<b>4 POWER PROJECTION APPLIED RESEARCH</b>	<b>84,914</b>	<b>116,714</b>	<b>31,800</b>
Marine mammal hearing and echolocation research		1,500	
Retroreflecting optical communications for special operations		3,000	
Millimeter terahertz imaging arrays		2,800	
Multifunctional oxide materials MFMA		2,000	
Computational design tools for high power sources for directed energy applications		1,500	
Multifunctional oxide materials applications and devices		2,000	
Electronic motion actuation systems		4,000	
High performance frequency modulated (FM) fiberoptic link		2,000	
High energy density capacitors for military applications		5,500	
Device integration of wide bandgap semiconductors and multifunctional oxides		2,700	
Development processes for full scale production of silicon carbide wafers		1,800	
H.264 video compression		1,000	
High energy superior battery technology for defense applications		2,000	
<b>5 FORCE PROTECTION APPLIED RESEARCH</b>	<b>123,443</b>	<b>123,243</b>	<b>-200</b>
Base program reduction		-20,000	
Advanced simulation tools for aircraft structures made of composite materials		1,500	
Mark V patrol boat replacement craft		5,000	
Direct motor driven waterjets		2,300	
Facial recognition technology		1,000	
Blast resistant anechoic sprayable elastomeric coating for ships		1,500	



R-1	Budget Request	Committee Recommended	Change from Request
<b>14 UNDERSEA WARFARE APPLIED RESEARCH</b>	<b>83,435</b>	<b>85,235</b>	<b>1,800</b>
ATT (6.75-in diameter) multi-mission weapon		1,800	
<b>MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH</b>			
<b>15 RESEARCH</b>	<b>53,435</b>	<b>63,135</b>	<b>9,700</b>
Detection and neutralization of electronically initiated IEDs		3,000	
NSW unattended sensor network		2,700	
AUV docking and recharging station		4,000	
<b>16 POWER PROJECTION ADVANCED TECHNOLOGY</b>	<b>76,806</b>	<b>89,306</b>	<b>12,500</b>
Laser radar (LADAR) - Naval Air Warfare Center China Lake		1,000	
DP-2 vectored thrust aircraft		6,000	
Laser radar (LADAR)		4,000	
Computational analysis of cyber-terrorism against the United States		1,500	
<b>17 FORCE PROTECTION ADVANCED TECHNOLOGY</b>	<b>61,504</b>	<b>162,104</b>	<b>100,600</b>
Phase II virent-NAVSEA antifreeze hydrogen project		2,000	
SMART micro-sensor arrays		1,400	
Transparent armor		500	
Wave power electric power generating system for Hawaii Naval Base		1,500	
Pure hydrogen supply from logistic fuel		2,700	
High speed power node switching center		5,400	
Porous silicon-based direct methanol fuel cell		3,000	
Protective apparel technology systems		2,500	
Solid state DC protection system		2,000	
High power density motor drive		3,000	
HTS AC synchronous Navy propulsion motor		3,000	
Wireless condition-based maintenance monitoring for naval shipyard equipment and facilities		3,000	
Accelerated development of mobile acoustic countermeasure for force protection FNC		1,500	
Agile port and high speed ship technology		2,400	
Detecting IEDs		1,000	
Stabilized laser designation capability		1,500	
Superconducting DC homopolar motor for electric drive ships		4,000	
Mobile manufacturing and repair cell		2,000	
Sea fighter		23,000	
Damage control wireless communications and experimentation (DCWC&E)		2,700	
Missile warning sensor		3,500	
Aviation ground advanced technology		2,700	
Lightweight, ruggedized reconnaissance robot		1,000	
Center for Applied Research for Autonomous Systems		1,800	
Unmanned systems technologies for explosive ordnance disposal		1,000	
Affordable distributed aperture IRCM for helicopters and regional jets		5,000	
Strategic mobility 21 deployment technology		3,500	
Multipolar motor		2,000	
Secure infrastructure technology laboratory (SINTEL)		8,000	

R-1	Budget Request	Committee Recommended	Change from Request
		4,000	
18	<b>COMMON PICTURE ADVANCED TECHNOLOGY</b>	<b>63,725</b>	<b>2,000</b>
	Maritime identification surveillance technology (MIST)	1,000	
	Urban data delivery in the virtual battle lab	1,000	
19	<b>WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY</b>	<b>89,735</b>	<b>7,700</b>
	Sea base planning, operations, and logistics	-1,829	
	Sea base mobility and interfaces	-6,145	
	Sea basing	-2,320	
	Friction drag reduction	-2,497	
	Manpower and personnel development	-3,898	
	Training systems	-1,851	
	Airframe/ship corrosion	-1,360	
	Curve plate technology	1,000	
	NADEP Cherry Point Center for Vertical Lift - Institute for Maintenance Science and Technology	3,000	
	Autonomous sustainment cargo container (ASCC) delivery system	2,000	
	SEAPRINT (ODTW)	3,000	
		2,700	
	Photonic machining of electronic materials	1,000	
	Mission readiness advancements for vertical lift aircraft	1,800	
	Adaptive IED tactical system	1,800	
	National Center for Research on Evaluation, Standards, and Student Testing (CRESST) skill set analysis (Note: Including \$2,000,000 to formalize CRESST relationship as UARC for educational and training technology assessment)	6,500	
	Intelligent work management	1,800	
	Training transformation for the littoral combat ship	1,000	
	Shipboard personal locator beacon	2,000	
20	<b>RF SYSTEMS ADVANCED TECHNOLOGY</b>	<b>77,417</b>	<b>32,100</b>
	HESS	1,500	
	Command and control on the move network digital over the horizon relay (CONDOR)	8,000	
	AN/SPS-67 C-band active array radar (CBAAR)	17,000	
	Common radar signal processor	3,600	
	APY-6 real time precision targeting radar	2,000	
21	<b>MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)</b>	<b>78,670</b>	<b>19,500</b>
	Craft integrated electronic suite (CIES)	3,000	
	Dual stage ultra reliable water filtration technology development	1,000	
	Indirect fire multi-grenade launcher	1,500	
	Laser integrated target engagement system (LITES)	7,000	
	C3RP	4,000	
	ULTRA program	3,000	
24	<b>WARFIGHTER PROTECTION ADVANCED TECHNOLOGY</b>	<b>58,482</b>	<b>40,500</b>
	Joint experimentation visualization (MOVES)	2,000	
		2,500	



R-1	Budget Request	Committee Recommended	Change from Request
<b>46 ADVANCED SUBMARINE SYSTEM DEVELOPMENT</b>	<b>140,432</b>	<b>155,432</b>	<b>15,000</b>
Experimental research transformational submersible		4,500	
Cryogenic power system for unmanned underwater vehicles		2,000	
Large displacement UUV at sea launch and recovery		4,000	
Inner and outer decoupler materials for fiberoptic conformal arrays		4,500	
<b>48 SHIP CONCEPT ADVANCED DESIGN</b>	<b>21,549</b>	<b>14,721</b>	<b>-6,828</b>
Reduction to growth		-9,828	
Machinery analytics for controls and monitoring systems (ACMS)		3,000	
<b>49 SHIP PRELIMINARY DESIGN &amp; FEASIBILITY STUDIES</b>	<b>21,314</b>	<b>24,314</b>	<b>3,000</b>
Support for naval ship hydrodynamic test facilities		3,000	
<b>51 ADVANCED SURFACE MACHINERY SYSTEMS</b>	<b>0</b>	<b>5,800</b>	<b>5,800</b>
Lightweight metals technology for aluminum intensive marine structures		1,800	
LCS advanced lightweight metals technology for aluminum marine structures		4,000	
<b>53 LITTORAL COMBAT SHIP (LCS)</b>	<b>319,671</b>	<b>332,271</b>	<b>12,600</b>
LCS ASW mission area commonality		3,500	
Unmanned surface vehicles concepts and technology		2,700	
LCS mission module enhanced tactical response		5,400	
Remote operation of active sonar technology (ROAST)		1,000	
<b>54 COMBAT SYSTEM INTEGRATION</b>	<b>62,095</b>	<b>74,745</b>	<b>12,650</b>
Open architecture/maintenance free operating period (OA/MFOP)		2,000	
Lasers for Navy applications		4,000	
Deployable ultra-short pulse laser development		3,150	
Optical line replaceable units (O-LRUs) for high energy laser systems		1,000	
Prototype instrumentation system for MUTC		2,500	
<b>55 CONVENTIONAL MUNITIONS</b>	<b>22,385</b>	<b>23,885</b>	<b>1,500</b>
Non-discarding sabot ammunition		1,500	
<b>56 MARINE CORPS ASSAULT VEHICLES</b>	<b>188,306</b>	<b>194,906</b>	<b>6,600</b>
Intelligent machining of advanced defense materials		3,000	
AN/UXC-10 digital facsimile upgrade for the EFV		3,600	
<b>MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM</b>	<b>503</b>	<b>2,003</b>	<b>1,500</b>
Marine sensor integrated, modular protection-combat helmet (MSIMP-CH)		1,500	
<b>60 COOPERATIVE ENGAGEMENT</b>	<b>53,406</b>	<b>67,406</b>	<b>14,000</b>
Cooperative engagement capability integration		14,000	
<b>61 OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT</b>	<b>16,324</b>	<b>18,324</b>	<b>2,000</b>
Advanced composite riverine craft		2,000	
<b>62 ENVIRONMENTAL PROTECTION</b>	<b>20,271</b>	<b>26,771</b>	<b>6,500</b>

R-1	Budget Request	Committee Recommended	Change from Request
		2,500	
		3,000	
		1,000	
<b>64 FACILITIES IMPROVEMENT</b>	<b>4,194</b>	<b>6,194</b>	<b>2,000</b>
Development of regenerative fuel cell back-up power systems for naval land-based installations		2,000	
<b>66 NAVY LOGISTIC PRODUCTIVITY</b>	<b>6,306</b>	<b>26,206</b>	<b>19,900</b>
Navy operational logistics innovation		1,000	
Defense integrated technical data center		6,000	
Reliability testing of lead free circuits/components		2,000	
High density power electronics		1,800	
Fiber optic interconnect technology		2,250	
Unique identification of tangible items		5,500	
Fiber optic components for military applications		1,350	
<b>68 LINK PLUMERIA</b>	<b>80,662</b>	<b>70,662</b>	<b>-10,000</b>
Program adjustment		-10,000	
<b>74 LAND ATTACK TECHNOLOGY</b>	<b>18,571</b>	<b>48,171</b>	<b>29,600</b>
Extended range munition program reduction		-8,000	
Affordable weapon system		24,000	
Millenium gun system		2,000	
EX-171 extended range guided munitions (ERGM) EMD		2,700	
Projectile common guidance		2,700	
Automated explosive safety assessment tools		1,000	
Advanced medium gun demonstrator		1,400	
76mm super rapid medium caliber gun		1,800	
Ballistic trajectory extended range munition		2,000	
<b>75 NONLETHAL WEAPONS</b>	<b>44,815</b>	<b>48,515</b>	<b>3,700</b>
3-dimensional through wall imaging of terrorist activities		1,000	
Non-lethal defense technology		2,700	
<b>SINGLE INTEGRATED AIR PICTURE (SIAP) SYSTEM</b>			
<b>78 ENGINEERING</b>	<b>50,282</b>	<b>42,500</b>	<b>-7,782</b>
Reduction to program growth		-10,282	
SIAP open architecture automated test and retest		2,500	
<b>79 COUNTER-DRUG RDT&amp;E PROJECTS</b>	<b>0</b>	<b>4,000</b>	<b>4,000</b>
Project Athena		4,000	
<b>HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS)</b>			
<b>81 SYSTEM (HDBTDS)</b>	<b>77,000</b>	<b>30,000</b>	<b>-47,000</b>
Program reduction		-47,000	
<b>86 STANDARDS DEVELOPMENT</b>	<b>112,257</b>	<b>92,257</b>	<b>-20,000</b>
CNS/ATM upgrades		-25,000	
Navy and Marine Corps sensor metrology R & D		5,000	
<b>91 TACTICAL COMMAND SYSTEM</b>	<b>74,225</b>	<b>60,625</b>	<b>-13,600</b>
Joint Mission Planning System - reduction to growth		-13,600	
<b>94 ACOUSTIC SEARCH SENSORS</b>	<b>36,764</b>	<b>47,064</b>	<b>10,300</b>
Acoustic environmental sensor system		2,300	
AN/USQ-78B acoustic processor improvements		8,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>96 AIR CREW SYSTEMS DEVELOPMENT</b>	<b>12,434</b>	<b>14,234</b>	<b>1,800</b>
SIIIS ejection seat improvement		1,800	
<b>97 EA-18</b>	<b>372,363</b>	<b>375,363</b>	<b>3,000</b>
Next generation electronic warfare simulator		3,000	
<b>98 ELECTRONIC WARFARE DEVELOPMENT</b>	<b>39,842</b>	<b>41,042</b>	<b>1,200</b>
IR signature reduction		1,200	
<b>101 SC-21 TOTAL SHIP SYSTEM ENGINEERING</b>	<b>817,528</b>	<b>831,528</b>	<b>14,000</b>
Carrier strike group forward sensor network		6,000	
MEMS center for defense applications		1,000	
Surface vessel electric actuator technology development		2,500	
SmartLink planar scanner antenna modernization		2,000	
Floating area network		2,500	
<b>SURFACE COMBATANT COMBAT SYSTEM ENGINEERING</b>			
<b>102 ENGINEERING</b>	<b>190,059</b>	<b>191,059</b>	<b>1,000</b>
Smart integrated data environment		1,000	
<b>106 STANDARD MISSILE IMPROVEMENTS</b>	<b>186,144</b>	<b>187,244</b>	<b>1,100</b>
Alternative thermal battery production capability		1,100	
<b>107 AIRBORNE MCM</b>	<b>56,145</b>	<b>62,145</b>	<b>6,000</b>
Airborne mine countermeasures open architecture technology insertion		6,000	
<b>109 SSN-688 AND TRIDENT MODERNIZATION</b>	<b>94,839</b>	<b>109,139</b>	<b>14,300</b>
Twin thin line towed array processing improvements in ARCI		2,500	
Connectionless technology for towed arrays		3,000	
SONAR advanced optical co-processor		1,800	
Submarine-enabling airborne data exchange and enhancement (SEADeep)		3,000	
Common submarine radio room		4,000	
<b>112 SHIPBOARD AVIATION SYSTEMS</b>	<b>33,392</b>	<b>35,392</b>	<b>2,000</b>
Aircraft carrier launch and recovery (ALRE)/support equipment continued modernization		2,000	
<b>113 COMBAT INFORMATION CENTER CONVERSION</b>	<b>6,708</b>	<b>7,708</b>	<b>1,000</b>
C2 web-based architecture		1,000	
<b>114 NEW DESIGN SSN</b>	<b>169,580</b>	<b>189,980</b>	<b>20,400</b>
Submarine low power computing advanced technology insertion and cost reduction initiative for command and control		2,000	
Large aperture bow array on Virginia class		9,000	
Flexible payload module and Virginia payload interface module development		4,000	
Submarine modernization and technology insertion		5,400	
<b>116 SUBMARINE TACTICAL WARFARE SYSTEM</b>	<b>51,656</b>	<b>54,156</b>	<b>2,500</b>
Submarine maintenance automation and communication system		2,500	

R-1		Budget Request	Committee Recommended	Change from Request
117	<b>SHIP CONTRACT DESIGN/ LIVE FIRE T&amp;E</b> Integrated lifecycle management environment for the surface fleet	72,055	73,855 1,800	1,800
	<b>PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS</b>			
123	SEAPRINT	8,754	9,754 1,000	1,000
	<b>BATTLE GROUP PASSIVE HORIZON EXTENSION SYSTEM</b>			
124	TREX/MILDEC tactical target generator system	0	1,000 1,000	1,000
126	<b>SHIP SELF DEFENSE (DETECT &amp; CONTROL)</b> Shipboard swimmer defense system Integrated display and enhanced architecture/surface combatant systems engineering (common display architecture - CDA)	10,050	25,650 3,000 12,600	15,600
127	<b>SHIP SELF DEFENSE (ENGAGE: HARD KILL)</b> Phalanx next generation	46,390	50,890 4,500	4,500
128	<b>SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)</b> Advanced radar absorbing tiles for surface ships	11,513	12,913 1,400	1,400
130	<b>MEDICAL DEVELOPMENT</b> Advanced molecular medicine initiative - City of Hope National Medical Center Community Hospital Telehealth Consortium Diabetes research, somatic cell processing program HUUCTC proton beam therapy research Infusible hemostatic agent clinical trials Military dental research On-demand custom body implants/prosthesis for injured personnel Discovery, early detection, evaluation, treatment, and prevention in cancer Defense graduate psychology education program (Note: Only to continue program between WRAMC and USUHS) Thermotube battlefield body temperature regulator	7,663	35,263 3,000 1,500 3,000 2,000 2,000 4,000 3,000 5,000 3,600 500	27,600
132	<b>DISTRIBUTED SURVEILLANCE SYSTEM</b> SureTrak Off-board sensor	58,273	60,773 1,500 1,000	2,500
133	<b>JOINT STRIKE FIGHTER (JSF)</b> Innovative technology for an open architecture JSF/F/A-18 E/F core processor	2,030,979	2,033,679 2,700	2,700
135	<b>INFORMATION TECHNOLOGY DEVELOPMENT</b> Oblique imaging and software tool for Marine installations	13,326	14,326 1,000	1,000
136	<b>INFORMATION TECHNOLOGY DEVELOPMENT</b> Navy ITC New Orleans (SPAWAR Systems Center)	88,323	92,323 4,000	4,000
140	<b>TACTICAL CRYPTOLOGIC SYSTEMS</b>	23,526	27,526	4,000

R-1	Budget Request	Committee Recommended	Change from Request
ANS/SSQ-137(V) ships signals exploitation equipment increment E		2,000	
Scan Eagle UAV advanced datalink and sensor development		2,000	
<b>143 MAJOR T&amp;E INVESTMENT</b>	<b>39,750</b>	<b>47,250</b>	<b>7,500</b>
Low cost Coyote ramjet demonstration		2,000	
Upgrading range instrumentation to support network centric operations		2,500	
Network expansion of RDT&E ranges		3,000	
<b>148 TECHNICAL INFORMATION SERVICES</b>	<b>670</b>	<b>9,170</b>	<b>8,500</b>
Illinois Technology Transition Center		2,500	
Commercialization of advanced technology (CAT)		6,000	
<b>158 MARINE CORPS PROGRAM WIDE SUPPORT</b>	<b>25,343</b>	<b>31,343</b>	<b>6,000</b>
Corrosion service teams		2,000	
Individual chemical alert system (ICAS)		1,000	
Tactical air sentinel		3,000	
<b>160 SERVICE SUPPORT TO JFCOM, JNTE</b>	<b>5,202</b>	<b>12,802</b>	<b>7,600</b>
Training transformation for training and test and evaluation ranges		7,600	
<b>163 HARPOON MODIFICATIONS</b>	<b>36,284</b>	<b>28,000</b>	<b>-8,284</b>
Program reduction		-8,284	
<b>UNMANNED COMBAT AIR VEHICLE (UCAV)</b>			
<b>164 ADVANCED COMPONENT DEVELOPMENT</b>	<b>239,163</b>	<b>189,163</b>	<b>-50,000</b>
Program execution reduction		-50,000	
<b>165 STRATEGIC SUB &amp; WEAPONS SYSTEM SUPPORT</b>	<b>124,522</b>	<b>129,522</b>	<b>5,000</b>
Advanced conventional strike capability (SLIRBM)		2,000	
Free electron laser facility		3,000	
<b>169 RAPID TECHNOLOGY TRANSITION (RTT)</b>	<b>39,285</b>	<b>44,285</b>	<b>5,000</b>
120mm tank high explosive plastic (HEP) cartridge		5,000	
<b>170 F/A-18 SQUADRONS</b>	<b>31,098</b>	<b>38,698</b>	<b>7,600</b>
F/A-18 C/D digital electronic warfare system		7,600	
<b>171 E-2 SQUADRONS</b>	<b>1,540</b>	<b>6,240</b>	<b>4,700</b>
E-2C open architecture computing framework		2,000	
Airborne advanced networks		2,700	
<b>TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)</b>			
<b>173</b>	<b>18,635</b>	<b>25,635</b>	<b>7,000</b>
Precision terrain aided navigation		7,000	
<b>174 INTEGRATED SURVEILLANCE SYSTEM</b>	<b>30,740</b>	<b>42,540</b>	<b>11,800</b>
Program increase		8,200	
High channel count interrogator for sensor arrays		1,800	
Tunable laser and laser array		1,800	
<b>176 CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT</b>	<b>17,857</b>	<b>19,857</b>	<b>2,000</b>
Total ship training capability support system		2,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>179 HARM IMPROVEMENT</b>	<b>99,208</b>	<b>105,208</b>	<b>6,000</b>
Joint common missile		5,000	
Aircraft composite rocket launcher improvement program		1,000	
<b>181 SURFACE ASW COMBAT SYSTEM INTEGRATION</b>	<b>9,417</b>	<b>21,667</b>	<b>12,250</b>
Advanced materials for acoustic window applications		2,000	
Surface ship sonar integrated data fusion initiative		2,250	
Surface ship ASW R&D improvements (SQQ-89)		8,000	
<b>183 AVIATION IMPROVEMENTS</b>	<b>71,612</b>	<b>80,412</b>	<b>8,800</b>
Rotor blade protection		1,000	
Real time measurement weight and balance system for C-130s		1,000	
AGE exploration model extension to multi-signal diagnostics		3,000	
Low maintenance material applications		1,800	
Navair obsolescence management and tools		1,000	
Aircraft sustainment technology rapid deployment initiative		1,000	
<b>186 MARINE CORPS COMMUNICATIONS SYSTEMS</b>	<b>218,460</b>	<b>241,160</b>	<b>22,700</b>
Battlefield management system (BMS)/advanced situational awareness system (AS2) (BMS/AS2)		5,000	
Foliage penetrating synthetic aperture radar		1,000	
Ground/air task-oriented radar (G/ATOR)		5,000	
Marine Corps battlefield fusion		3,000	
Remote tactical collection and transmission system		3,000	
Marine Corps composite tracking network sensor/comms integration		2,700	
Improved Marine communications		2,000	
Trident - soldier training		1,000	
<b>MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS</b>	<b>47,592</b>	<b>68,892</b>	<b>21,300</b>
Amplifying fluorescent polymer based IED detection		2,800	
Particulate matter filter system		1,000	
USMC light armored vehicles integrated digital and collaborative environment (IDCE) service network		2,700	
Precision extended range munition (PERM) - EFSS - USMC		8,000	
Lightweight prime mover vehicle		5,000	
Development of lightweight, flexible, multi-threat body and appendage armor		1,800	
<b>195 SATELLITE COMMUNICATIONS (SPACE)</b>	<b>748,662</b>	<b>751,662</b>	<b>3,000</b>
Joint integrated systems for advanced digital networking (JIST-NET)		3,000	
<b>196 INFORMATION SYSTEMS SECURITY PROGRAM</b>	<b>23,037</b>	<b>27,037</b>	<b>4,000</b>
Tactical key loader		4,000	
<b>NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METOC)</b>	<b>7,307</b>	<b>9,307</b>	<b>2,000</b>
Radiation hardened vector processor		2,000	
<b>202 TACTICAL UNMANNED AERIAL VEHICLES</b>	<b>115,950</b>	<b>118,950</b>	<b>3,000</b>
Unmanned air systems tactical control system open architecture migration		1,000	
UAV payload for nuclear, biological, and chemical (NBC) detection		2,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>204 AIRBORNE RECONNAISSANCE SYSTEMS</b>	<b>35,038</b>	<b>36,838</b>	<b>1,800</b>
C4ISR aircraft		1,800	
<b>205 MANNED RECONNAISSANCE SYSTEMS</b>	<b>22,815</b>	<b>35,815</b>	<b>13,000</b>
Classified program increase		12,000	
Miniature radar responsive tag (MRRT)		1,000	
<b>206 DISTRIBUTED COMMON GROUND SYSTEMS</b>	<b>16,587</b>	<b>18,587</b>	<b>2,000</b>
Maritime intelligence integration for shared situational awareness		2,000	
<b>209 DEPOT MAINTENANCE (NON-IF)</b>	<b>2,960</b>	<b>6,960</b>	<b>4,000</b>
Portable laser depainting system		4,000	
<b>211 INDUSTRIAL PREPAREDNESS</b>	<b>55,048</b>	<b>63,848</b>	<b>8,800</b>
Formable aligned carbon thermoSets (FACTS)/stretch broken carbon fiber		4,000	
Nano-imprint at manufacturing scale (NIMS)		1,800	
U. S. Navy nuclear power plant and ship propulsion shaft manufacturing improvement		3,000	
<b>212 MARITIME TECHNOLOGY (MARITECH)</b>	<b>0</b>	<b>22,000</b>	<b>22,000</b>
National Shipbuilding Research Program		20,000	
Shipyard enterprise warehouse management system with integrated radio frequency system (EWMS/RFID) and CAC card technology pilot		2,000	

AFFORDABLE DISTRIBUTED APERTURE INFRARED COUNTERMEASURES  
FOR HELICOPTERS AND REGIONAL JETS

The Committee is aware of the need for a lower weight, affordable directional infrared countermeasures (IRCM) solution to protect helicopters and regional jets from advanced ground-based missile threats. The Committee applauds the Naval Research Laboratory's IRCM successes to date and provides an additional \$5,000,000 to build on these successes and accelerate development of an affordable distributed aperture laser-based IRCM system to meet this requirement.

FORCE PROTECTION APPLIED RESEARCH

The Committee directs that none of the base reduction in this program shall be applied against the Explosive Resistant Coatings project. The Committee continues to support this effort as a high priority force protection measure for Navy ships.

WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY

The Committee recommends a base program reduction of \$19,900,000, to be distributed as shown in the table below. The recommendation allows approximately the same level of funding for these activities as received in fiscal year 2006, rather than the 33 percent increase proposed in the budget. Of the funds provided in this program, \$2,500,000 is for the Validation of Prognostic and Health Management Systems.

Name	Budget estimate	Committee recommended
Sea base planning, operations, and logistics .....	\$13,329,000	\$11,500,000
Sea base mobility and interfaces .....	19,145,000	13,000,000
Sea Basing .....	9,320,000	7,000,000
Friction drag reduction .....	2,497,000	0
Manpower and personnel development .....	6,998,000	3,100,000
Training systems .....	12,045,000	10,194,000
Turbine engine technology .....	11,343,000	11,343,000
Airframe/ship corrosion .....	5,360,000	4,000,000
Littoral combat .....	1,998,000	1,998,000
	82,035,000	62,135,000

ENVIRONMENTAL PROTECTION

The Committee recommends \$7,763,000 for Marine Mammal Research, an increase of \$3,500,000 above the request. Of the additional funds provided, \$2,500,000 is a general program increase for the Navy's marine mammal research program. In addition, \$1,000,000 would establish a new stranded mammal auditory electro-physiological (AEP) testing program. This program would allow significantly improved data on the potential effect of Navy sonar on marine mammals. Because of a lack of field data, the Navy currently extrapolates from one species of marine mammal to another when projecting the effects of sonar. Under the AEP program, hardware kits would be developed by the Navy Marine Mammal Program and transitioned for use by national marine mammal stranding network personnel in affected locations throughout the United States. The data collected through this program will im-

prove the Navy's understanding of the effect of sonar on specific species, allowing the service to respond more accurately to the concerns of local communities, environmental groups and other federal agencies.

#### SURFACE AND SHALLOW WATER MINE COUNTERMEASURES

The Committee recommends a rescission of \$16,879,000 in fiscal year 2006 funds reflecting delays in the award of development contracts for the 21-inch Mission Reconfigurable Unmanned Undersea Vehicle. Preliminary design for this effort has slipped from fiscal year 2006 to 2007, freeing up these funds for other needs.

#### 76 MILLIMETER SUPER RAPID MEDIUM CALIBER GUN

The Committee recommends \$1,800,000 to continue the 76 Millimeter Super Rapid Medium Caliber Gun program. The Committee expects the Navy to proceed in fiscal year 2007 with Weapon System Explosives Safety Review Board (WSESRB) qualification of this gun system and its associated ammunition.

#### DD(X) RESEARCH AND DEVELOPMENT

Consistent with the provisions of H.R. 5122, the National Defense Authorization Act for Fiscal Year 2007, the Committee urges the Secretary of the Navy to review the continuing need for additional research and development of a permanent magnet motor for the DD(X) destroyer, and to provide sufficient funds under this heading to maintain development of such an engine, if warranted.

#### CONVENTIONAL TRIDENT MODIFICATION

Consistent with the House-passed bill authorizing appropriations for the Defense Department, the Committee recommends \$30,000,000 in RDT&E, Navy for development of a modification to the Trident Weapon System to accommodate non-nuclear payloads. The President's budget included \$127,000,000 for this program, including \$77,000,000 in research and development and \$50,000,000 in procurement accounts. The Committee believes the proposed schedule for this program is unrealistic, and prejudices the outcome of internal planning and programming reviews, including the analysis of alternatives and the vetting and documentation of operational requirements. While agreeing to provide some funds for this new start, the Committee remains concerned that important strategic, international, and operational considerations have not been fully addressed, and the Department's acquisition community has not completed its review.

#### BONE MARROW REGISTRY

The Committee provides \$31,500,000, to be administered by the C. W. Bill Young Marrow Donor Recruitment and Research Program, also known and referred to, within the Naval Medical Research Center, as the Bone Marrow Registry. This DoD donor center has recruited more than 375,000 DoD volunteers, and provides more marrow donors per week than any other donor center in the Nation. More than 2,100 service members and other DoD volunteers from this donor center have provided marrow to save the lives

of patients. The Committee is aware of the continuing success of this national and international life saving program for military contingencies and civilian patients, which now includes more than 6,000,000 potential volunteer donors, and encourages agencies involved in contingency planning to continue to include the C. W. Bill Young Marrow Donor Recruitment and Research Program in the development and testing of their contingency plans. DD Form 1414 shall show this as a congressional special interest item, and the Committee directs that all of the funds appropriated for this purpose be released to the C.W. Bill Young Marrow Recruitment and Research Program within 60 days of enactment of the Department of Defense Appropriations Act, 2007.

UNMANNED COMBAT AIR VEHICLE ADVANCED COMPONENT  
DEVELOPMENT

The Committee recommends \$189,163,000 for Unmanned Combat Air Vehicle—Navy (UCAV–N), a reduction of \$50,000,000 from the budget estimate. This program has experienced significant delays during fiscal year 2006, as the Department of Defense restructures the now-terminated Joint Unmanned Combat Air System (J–UCAS) into a Navy-only effort called UCAV–N. Because of these delays and significant funding remaining from the fiscal year 2006 appropriation, the Committee believes a lower funding level will be sufficient for the program in fiscal year 2007.

PROGRAM RECOMMENDED

The total program recommended in the bill will provide the following in fiscal year 2007:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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RESEARCH, DEVELOPMENT, TEST & EVAL., NAVY			
BASIC RESEARCH			
UNIVERSITY RESEARCH INITIATIVES.....	73,322	96,822	+23,500
IN-HOUSE LABORATORY INDEPENDENT RESEARCH.....	15,916	15,916	---
DEFENSE RESEARCH SCIENCES.....	366,649	386,149	+19,500
TOTAL, BASIC RESEARCH.....	455,887	498,887	+43,000
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APPLIED RESEARCH			
POWER PROJECTION APPLIED RESEARCH.....	84,914	116,714	+31,800
FORCE PROTECTION APPLIED RESEARCH.....	123,443	123,243	-200
MARINE CORPS LANDING FORCE TECHNOLOGY.....	37,741	38,741	+1,000
MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY.....	---	1,000	+1,000
COMMON PICTURE APPLIED RESEARCH.....	68,352	74,241	+5,889
WARFIGHTER SUSTAINMENT APPLIED RESEARCH.....	89,964	115,664	+25,700
RF SYSTEMS APPLIED RESEARCH.....	42,619	47,619	+5,000
OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH.....	48,718	55,718	+7,000
JOINT NON-LETHAL WEAPONS APPLIED RESEARCH.....	6,036	6,036	---
UNDERSEA WARFARE APPLIED RESEARCH.....	83,435	85,235	+1,800
MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH.....	53,435	63,135	+9,700
TOTAL, APPLIED RESEARCH.....	638,657	727,346	+88,689
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ADVANCED TECHNOLOGY DEVELOPMENT			
POWER PROJECTION ADVANCED TECHNOLOGY.....	76,806	89,306	+12,500
FORCE PROTECTION ADVANCED TECHNOLOGY.....	61,504	162,104	+100,600
COMMON PICTURE ADVANCED TECHNOLOGY.....	61,725	63,725	+2,000
WARFIGHTER SUSTAINMENT ADVANCED TECHNOLOGY.....	82,035	89,735	+7,700
RF SYSTEMS ADVANCED TECHNOLOGY.....	45,317	77,417	+32,100
MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION (ATD)...	59,170	78,670	+19,500
JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT.....	1,405	1,405	---
WARFIGHTER PROTECTION ADVANCED TECHNOLOGY.....	17,982	58,482	+40,500
UNDERSEA WARFARE ADVANCED TECHNOLOGY.....	35,055	35,055	---
NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS.....	41,308	41,308	---
MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY....	21,326	24,926	+3,600
JOINT COMMAND AND CONTROL PROGRAM (JC2).....	1,001	1,001	---
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	504,634	723,134	+218,500
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(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
DEMONSTRATION & VALIDATION			
AIR/OCEAN TACTICAL APPLICATIONS.....	31,778	28,278	-3,500
AVIATION SURVIVABILITY.....	6,177	31,377	+25,200
DEPLOYABLE JOINT COMMAND AND CONTROL.....	16,383	16,383	---
ASW SYSTEMS DEVELOPMENT.....	16,782	22,782	+6,000
TACTICAL AIRBORNE RECONNAISSANCE.....	3,959	3,959	---
ADVANCED COMBAT SYSTEMS TECHNOLOGY.....	12,398	12,398	---
SURFACE AND SHALLOW WATER MINE COUNTERMEASURES.....	130,265	134,765	+4,500
SURFACE SHIP TORPEDO DEFENSE.....	40,627	55,027	+14,400
CARRIER SYSTEMS DEVELOPMENT.....	153,894	158,394	+4,500
SHIPBOARD SYSTEM COMPONENT DEVELOPMENT.....	14,135	34,235	+20,100
PILOT FISH.....	134,550	134,550	---
RETRACT LARCH.....	87,180	87,180	---
RETRACT JUNIPER.....	38,462	38,462	---
RADIOLOGICAL CONTROL.....	1,901	1,901	---
SURFACE ASW.....	38,696	42,696	+4,000
SSGN CONVERSION.....	25,953	25,953	---
ADVANCED SUBMARINE SYSTEM DEVELOPMENT.....	140,432	155,432	+15,000
SUBMARINE TACTICAL WARFARE SYSTEMS.....	10,357	10,357	---
SHIP CONCEPT ADVANCED DESIGN.....	21,549	14,721	-6,828
SHIP PRELIMINARY DESIGN & FEASIBILITY STUDIES.....	21,314	24,314	+3,000
ADVANCED NUCLEAR POWER SYSTEMS.....	174,648	174,648	---
ADVANCED SURFACE MACHINERY SYSTEMS.....	---	5,800	+5,800
CHALK EAGLE.....	139,017	139,017	---
LITTORAL COMBAT SHIP (LCS).....	319,671	332,271	+12,600
COMBAT SYSTEM INTEGRATION.....	62,095	74,745	+12,650
CONVENTIONAL MUNITIONS.....	22,385	23,885	+1,500
MARINE CORPS ASSAULT VEHICLES.....	188,306	194,906	+6,600
MARINE CORPS MINE/COUNTERMEASURES SYSTEMS - ADV DEV...	3,777	3,777	---
MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM.....	503	2,003	+1,500
JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	24,467	24,467	---
COOPERATIVE ENGAGEMENT.....	53,406	67,406	+14,000
OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT.....	16,324	18,324	+2,000
ENVIRONMENTAL PROTECTION.....	20,271	26,771	+6,500

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
NAVY ENERGY PROGRAM.....	1,600	1,600	---
FACILITIES IMPROVEMENT.....	4,194	6,194	+2,000
CHALK CORAL.....	28,578	28,578	---
NAVY LOGISTIC PRODUCTIVITY.....	6,306	26,206	+19,900
RETRACT MAPLE.....	344,912	344,912	---
LINK PLUMERIA.....	80,662	70,662	-10,000
RETRACT ELM.....	64,133	64,133	---
SHIP SELF DEFENSE.....	8,897	8,897	---
LINK EVERGREEN.....	55,051	55,051	---
SPECIAL PROCESSES.....	47,180	47,180	---
NATO RESEARCH AND DEVELOPMENT.....	9,784	9,784	---
LAND ATTACK TECHNOLOGY.....	18,571	48,171	+29,600
NONLETHAL WEAPONS.....	44,815	48,515	+3,700
JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	41,242	41,242	---
SINGLE INTEGRATED AIR PICTURE (SIAP) SYSTEM ENGINEER..	50,282	42,500	-7,782
COUNTER-DRUG RDT&E PROJECTS.....	---	4,000	+4,000
TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES ....	20,527	20,527	---
HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS)..	77,000	30,000	-47,000
SPACE & ELECTRONIC WARFARE (SEW) ARCHITECTURE/ENGINE..	43,909	43,909	---
<b>TOTAL, DEMONSTRATION &amp; VALIDATION.....</b>	<b>2,919,305</b>	<b>3,063,245</b>	<b>+143,940</b>
ENGINEERING & MANUFACTURING DEVELOPMENT			
OTHER HELO DEVELOPMENT.....	86,197	86,197	---
AV-8B AIRCRAFT - ENG DEV.....	13,878	13,878	---
STANDARDS DEVELOPMENT.....	112,257	92,257	-20,000
MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT.....	19,259	19,259	---
AIR/OCEAN EQUIPMENT ENGINEERING.....	5,578	5,578	---
P-3 MODERNIZATION PROGRAM.....	16,139	16,139	---
WARFARE SUPPORT SYSTEM.....	2,203	2,203	---
TACTICAL COMMAND SYSTEM.....	74,225	60,625	-13,600
ADVANCED HAWKEYE.....	497,842	497,842	---
H-1 UPGRADES.....	7,844	7,844	---
ACOUSTIC SEARCH SENSORS.....	36,764	47,064	+10,300
V-22A.....	268,461	268,461	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
AIR CREW SYSTEMS DEVELOPMENT.....	12,434	14,234	+1,800
EA-18.....	372,363	375,363	+3,000
ELECTRONIC WARFARE DEVELOPMENT.....	39,842	41,042	+1,200
VHXX EXECUTIVE HELO DEVELOPMENT.....	682,597	682,597	---
JOINT TACTICAL RADIO SYSTEM - NAVY (JTRS-NAVY).....	1,153	1,153	---
SC-21 TOTAL SHIP SYSTEM ENGINEERING.....	817,528	831,528	+14,000
SURFACE COMBATANT COMBAT SYSTEM ENGINEERING.....	190,059	191,059	+1,000
LPD-17 CLASS SYSTEMS INTEGRATION.....	5,960	5,960	---
SMALL DIAMETER BOMB (SDB).....	10,021	10,021	---
STANDARD MISSILE IMPROVEMENTS.....	186,144	187,244	+1,100
AIRBORNE MCH.....	56,145	62,145	+6,000
NAVAL INTEGRATED FIRE CONTROL-COUNTER AIR SYSTEMS ENG.	14,792	14,792	---
SSN-688 AND TRIDENT MODERNIZATION.....	94,839	109,139	+14,300
AIR CONTROL.....	4,603	4,603	---
SHIPBOARD AVIATION SYSTEMS.....	33,392	35,392	+2,000
COMBAT INFORMATION CENTER CONVERSION.....	6,708	7,708	+1,000
NEW DESIGN SSN.....	169,580	189,980	+20,400
SSN-21 DEVELOPMENTS.....	3,260	3,260	---
SUBMARINE TACTICAL WARFARE SYSTEM.....	51,656	54,156	+2,500
SHIP CONTRACT DESIGN/ LIVE FIRE T&E.....	72,055	73,855	+1,800
MINE DEVELOPMENT.....	5,631	5,631	---
LIGHTWEIGHT TORPEDO DEVELOPMENT.....	40,540	40,540	---
JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT.....	10,026	10,026	---
PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS....	8,754	9,754	+1,000
BATTLE GROUP PASSIVE HORIZON EXTENSION SYSTEM.....	---	1,000	+1,000
JOINT STANDOFF WEAPON SYSTEMS.....	27,524	27,524	---
SHIP SELF DEFENSE (DETECT & CONTROL).....	10,050	25,650	+15,600
SHIP SELF DEFENSE (ENGAGE: HARD KILL).....	46,390	50,890	+4,500
SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW).....	11,513	12,913	+1,400
INTELLIGENCE ENGINEERING.....	4,865	4,865	---
MEDICAL DEVELOPMENT.....	7,663	35,263	+27,600
NAVIGATION/ID SYSTEM.....	47,070	47,070	---
DISTRIBUTED SURVEILLANCE SYSTEM.....	58,273	60,773	+2,500

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
JOINT STRIKE FIGHTER (JSF).....	2,030,979	2,033,679	+2,700
INFORMATION TECHNOLOGY DEVELOPMENT.....	13,326	14,326	+1,000
INFORMATION TECHNOLOGY DEVELOPMENT.....	88,323	92,323	+4,000
MULTINATIONAL INFORMATION SHARING (MNIS).....	20,856	20,856	---
CH-53X.....	362,672	362,672	---
MULTI-MISSION MARITIME AIRCRAFT (MMA).....	1,131,655	1,131,655	---
TACTICAL CRYPTOLOGIC SYSTEMS.....	23,526	27,526	+4,000
<b>TOTAL, ENGINEERING &amp; MANUFACTURING DEVELOPMENT.....</b>	<b>7,915,414</b>	<b>8,027,514</b>	<b>+112,100</b>
RDT&E MANAGEMENT SUPPORT			
THREAT SIMULATOR DEVELOPMENT.....	23,668	23,668	---
TARGET SYSTEMS DEVELOPMENT.....	45,666	45,666	---
MAJOR T&E INVESTMENT.....	39,750	47,250	+7,500
STUDIES AND ANALYSIS SUPPORT - NAVY.....	7,093	7,093	---
CENTER FOR NAVAL ANALYSES.....	48,900	48,900	---
FLEET TACTICAL DEVELOPMENT.....	2,595	2,595	---
TECHNICAL INFORMATION SERVICES.....	670	9,170	+8,500
MANAGEMENT, TECHNICAL & INTERNATIONAL SUPPORT.....	47,213	47,213	---
STRATEGIC TECHNICAL SUPPORT.....	3,347	3,347	---
RDT&E SCIENCE AND TECHNOLOGY MANAGEMENT.....	67,328	67,328	---
RDT&E INSTRUMENTATION MODERNIZATION.....	1,243	1,243	---
RDT&E SHIP AND AIRCRAFT SUPPORT.....	83,140	83,140	---
TEST AND EVALUATION SUPPORT.....	328,276	328,276	---
OPERATIONAL TEST AND EVALUATION CAPABILITY.....	11,532	11,532	---
NAVY SPACE AND ELECTRONIC WARFARE (SEW) SUPPORT.....	2,904	2,904	---
SEW SURVEILLANCE/RECONNAISSANCE SUPPORT.....	20,073	20,073	---
MARINE CORPS PROGRAM WIDE SUPPORT.....	25,343	31,343	+6,000
TACTICAL CRYPTOLOGIC ACTIVITIES.....	1,004	1,004	---
SERVICE SUPPORT TO JFCOM, JNTC.....	5,202	12,802	+7,600
<b>TOTAL, RDT&amp;E MANAGEMENT SUPPORT.....</b>	<b>764,947</b>	<b>794,547</b>	<b>+29,600</b>

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
OPERATIONAL SYSTEMS DEVELOPMENT			
HARPOON MODIFICATIONS.....	36,284	28,000	-8,284
UNMANNED COMBAT AIR VEHICLE (UCAV) ADVANCED COMPONENT.	239,163	189,163	-50,000
STRATEGIC SUB & WEAPONS SYSTEM SUPPORT.....	124,522	129,522	+5,000
SSBN SECURITY TECHNOLOGY PROGRAM.....	42,869	42,869	---
SUBMARINE ACOUSTIC WARFARE DEVELOPMENT.....	2,131	2,131	---
NAVY STRATEGIC COMMUNICATIONS.....	37,464	37,464	---
RAPID TECHNOLOGY TRANSITION (RTT).....	39,285	44,285	+5,000
F/A-18 SQUADRONS.....	31,098	38,698	+7,600
E-2 SQUADRONS.....	1,540	6,240	+4,700
FLEET TELECOMMUNICATIONS (TACTICAL).....	27,189	27,189	---
TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER (TMPC)...	18,635	25,635	+7,000
INTEGRATED SURVEILLANCE SYSTEM.....	30,740	42,540	+11,800
AMPHIBIOUS TACTICAL SUPPORT UNITS.....	1,812	1,812	---
CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT.....	17,857	19,857	+2,000
CRYPTOLOGIC DIRECT SUPPORT.....	1,425	1,425	---
ELECTRONIC WARFARE (EW) READINESS SUPPORT.....	20,673	20,673	---
HARM IMPROVEMENT.....	99,208	105,208	+6,000
TACTICAL DATA LINKS.....	41,967	41,967	---
SURFACE ASW COMBAT SYSTEM INTEGRATION.....	9,417	21,667	+12,250
MK-48 ADCAP.....	24,988	24,988	---
AVIATION IMPROVEMENTS.....	71,612	80,412	+8,800
NAVY SCIENCE ASSISTANCE PROGRAM.....	3,376	3,376	---
OPERATIONAL NUCLEAR POWER SYSTEMS.....	69,350	69,350	---
MARINE CORPS COMMUNICATIONS SYSTEMS.....	218,460	241,160	+22,700
MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS....	47,592	68,892	+21,300
MARINE CORPS COMBAT SERVICES SUPPORT.....	17,524	17,524	---
TACTICAL AIM MISSILES.....	7,946	7,946	---
ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM)....	6,705	6,705	---
JOINT HIGH SPEED VESSEL (JHSV).....	14,163	14,163	---
SATELLITE COMMUNICATIONS (SPACE).....	748,662	751,662	+3,000
INFORMATION SYSTEMS SECURITY PROGRAM.....	23,037	27,037	+4,000
JOINT COMMAND AND CONTROL PROGRAM (JC2).....	5,073	5,073	---
COBRA JUDY.....	135,372	135,372	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
NAVY METEOROLOGICAL AND OCEAN SENSORS-SPACE (METOC)...	7,307	9,307	+2,000
JOINT MILITARY INTELLIGENCE PROGRAMS.....	6,793	6,793	---
TACTICAL UNMANNED AERIAL VEHICLES.....	115,950	118,950	+3,000
ENDURANCE UNMANNED AERIAL VEHICLES.....	26,357	26,357	---
AIRBORNE RECONNAISSANCE SYSTEMS.....	35,038	36,838	+1,800
MANNED RECONNAISSANCE SYSTEMS.....	22,815	35,815	+13,000
DISTRIBUTED COMMON GROUND SYSTEMS.....	16,587	18,587	+2,000
AERIAL COMMON SENSOR (ACS) .....	17,182	17,182	---
MODELING AND SIMULATION SUPPORT.....	7,503	7,503	---
DEPOT MAINTENANCE (NON-IF).....	2,960	6,960	+4,000
AVIONICS COMPONENT IMPROVEMENT PROGRAM.....	1,375	1,375	---
INDUSTRIAL PREPAREDNESS.....	55,048	63,848	+8,800
MARITIME TECHNOLOGY (MARITECH).....	---	22,000	+22,000
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	2,532,054	2,651,520	+119,466
CLASSIFIED PROGRAMS.....	1,181,325	1,168,325	-13,000
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, NAVY.....	16,912,223	17,654,518	+742,295

RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR  
FORCE

Fiscal year 2006 appropriation .....	\$21,779,654,000
Fiscal year 2007 budget request .....	24,396,767,000
Committee recommendation .....	24,457,062,000
Change from budget request .....	+60,295,000

This appropriation finances the research, development, test and evaluation activities of the Department of the Air Force.

COMMITTEE RECOMMENDATION

The Committee recommends an appropriation of \$24,457,062,000 for Research, Development, Test and Evaluation, Air Force which is \$2,677,408,000 more than the amount provided in fiscal year 2006 and \$60,295,000 more than the request for fiscal year 2007.

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
 [In thousands of dollars]

<b>R-1</b>		<b>Budget Request</b>	<b>Committee Recommended</b>	<b>Change from Request</b>
<b>1</b>	<b>DEFENSE RESEARCH SCIENCES</b>	<b>250,232</b>	<b>259,832</b>	<b>9,600</b>
	Fully-Integrated Solar-Powered Interior Lighting Technology		1,000	
	NanoPhotonic Components		3,000	
	Coal-Based Jet Fuel (Note: only for the continuation of efforts between the Energy Institute and the USAF)		3,600	
	National Hypersonic Research Center		2,000	
<b>2</b>	<b>UNIVERSITY RESEARCH INITIATIVES</b>	<b>107,571</b>	<b>112,571</b>	<b>5,000</b>
	Single Chip Multi-modal Nanosensors		5,000	
<b>4</b>	<b>MEDICAL DEVELOPMENT</b>	<b>0</b>	<b>24,300</b>	<b>24,300</b>
	National Diabetes Model Program		22,000	
	Retinal Eye Scan for Pilots		500	
	Assessment and Demonstration Center for USAF Surgeon General		1,800	
<b>5</b>	<b>MATERIALS</b>	<b>111,073</b>	<b>144,273</b>	<b>33,200</b>
	Secure Coating Systems Technology		2,000	
	NanoMaterials Commercialization Center		1,000	
	Chrome Free Environmentally Friendly Corrosion Protection for Aircraft		2,000	
	Integral Fuel Tank Protective Coating System		1,000	
	Consortium for Nanomaterials for Aerospace Commerce and Technology (CONTACT)		3,000	
	Accelerated Insertion of Advanced Materials for Materials Substitution and Repair - National Institute for Aviation Research		2,000	
	Wide Bandgap Materials Integration for Power Electronic, Sensor, and Optical Devices		3,600	
	Power Electronics Reliability		1,800	
	Fabrication and Processing of Adaptive Optics and Optical Materials		1,800	
	Electronic Type-specific Buckytubes for Next Generation Defense Electronics		3,000	
	Life Shield Blast Resistant Panels for Buildings, Shelters, and Vehicles		2,000	
	High Temperature Aerogel Materials for Global Strike Vehicles		2,000	
	Hybrid Materials Integration		2,000	
	Domestic High Modulus PAN Carbon Fiber Qualification Initiative		2,000	
	Domestic Titanium Powder Manufacturing Initiative		1,000	
	ONAMI Safer Nanomaterials and Nanomanufacturing		2,000	
	Quantum Wire Program for Defense		1,000	
<b>6</b>	<b>AEROSPACE VEHICLE TECHNOLOGIES</b>	<b>112,751</b>	<b>124,351</b>	<b>11,600</b>
	AIRPRINT		3,000	
	Neurobiologically Enabled Autonomous Vehicle Operations		3,000	
	Advanced Coating Technologies for JSF and F-22			
	Survivability		3,600	
	C4ISR Fusion System		2,000	

R-1		Budget Request	Committee Recommended	Change from Request
<b>7</b>	<b>HUMAN EFFECTIVENESS APPLIED RESEARCH</b>	<b>92,991</b>	<b>104,691</b>	<b>11,700</b>
	Active Combustion Control Systems for Military Aircraft		4,000	
	Bio Medical DNA Program		1,000	
	Battlefield Automatic Life Status Monitor		2,000	
	Miniature Tri-Axial Accelerometer		1,000	
	Eyewear Display for Battlefield Operations		1,200	
	Unmasking Deception and Denial		1,000	
	Networked Warfighter Decision Support		1,500	
<b>8</b>	<b>AEROSPACE PROPULSION</b>	<b>170,885</b>	<b>204,835</b>	<b>33,950</b>
	Advanced High Speed Propulsion Development		1,000	
	MEPS Thermal Management		2,000	
	Integrated Electrical Starter/Generator		1,000	
	Methane Second Stage Rocket Engine		2,000	
	High-Energy Laser for Detection, Inspection, and Non-destructive Testing		1,000	
	Intelligent Engine Technology Development for UAV's		3,000	
	Chemical Hydride Power System		2,550	
	Solid Boost Propulsion Technology - Technology for the Sustainment of Strategic Systems		1,000	
	VAAATE-TMC FLADE Technology Demonstration		2,000	
	Advanced Vehicle and Propulsion Center		4,000	
	High Flux ESC System with TES for Military High Energy Laser		1,400	
	Advanced Liquid Rocket Booster Propulsion Technology		3,000	
	Military Purpose Electrolyte Supported Fuel Cells		1,000	
	Aerospace Lab Equipment Upgrade		1,000	
	Advanced Affordability Assurance Tools for the Versatile Affordable Advanced Turbine Engine (VAAATE) Initiative		1,500	
	Center for Solar Electricity and Hydrogen		5,500	
	Ultrafast, Ultraintense Laser Microfabrication and Diagnostics		1,000	
<b>9</b>	<b>AEROSPACE SENSORS</b>	<b>117,553</b>	<b>132,553</b>	<b>15,000</b>
	Optically Pumped Atomic Laser		3,000	
	Compact, Ultra-sensitive Optical Receiver for Smart and Loitering Standoff Weapons		2,000	
	Hanscom AFB Collaboration on Meta-Materials and Conformal Antenna Technologies		1,000	
	Phased Array Antenna Control Computer		1,000	
	3-D Packaging Technology for High Speed RF Communications		2,500	
	Center for Advanced Sensor and Communication Antennas		2,500	
	WBI LADAR Development and Demonstration		3,000	
<b>10</b>	<b>MULTI-DISCIPLINARY SPACE TECHNOLOGY</b>	<b>0</b>	<b>3,500</b>	<b>3,500</b>
	Engineering Tool Improvement Program		3,500	
<b>11</b>	<b>SPACE TECHNOLOGY</b>	<b>85,594</b>	<b>90,344</b>	<b>4,750</b>
	Elastic Memory Composites		1,000	
	Multicontinuum Technology for Space Structures		1,000	
	Three Dimensional Deployable Structure Systems for Space		2,500	
	Shielding Rocket Payloads		250	

R-1		Budget Request	Committee Recommended	Change from Request
13	<b>DIRECTED ENERGY TECHNOLOGY</b>	48,422	57,422	9,000
	Adaptive Optics Lasercom System		2,500	
	Digital Free Space Optical Laser Transmitter Modems		2,500	
	Ceramics for Next-Generation Tactical Lasers Systems		4,000	
14	<b>COMMAND CONTROL AND COMMUNICATIONS</b>	119,267	122,267	3,000
	MASINT Warfighter Visualization Tools		3,000	
16	<b>HIGH ENERGY LASER RESEARCH</b>	50,166	51,166	1,000
	Quantitative Inspection Techniques for Assessing Aging Military Aircraft		1,000	
18	<b>ADVANCED MATERIALS FOR WEAPON SYSTEMS</b>	48,901	66,501	17,600
	Large Panel Sapphire Producibility		2,700	
	Metals Affordability Initiative		3,500	
	Encapsulated Ballistic Protection System		2,000	
	Combined Agent Fire Fighting System		1,000	
	Continuous Integrated Vehicle Health Monitoring System		1,400	
	Aging Aircraft Fleet Support - National Institute for Aviation Research		3,000	
	Low Observable Multi-Purpose Inspection Tool		1,500	
	Coated Field Repair		1,500	
	Optical Filters for Hardened Night Vision Goggles		1,000	
19	<b>ADVANCED AEROSPACE SENSORS</b>	55,150	60,450	5,300
	TACNODES		1,500	
	National Operational Radar Signature Production and Research Capability (Combat Identification Signature Center)		2,000	
	Precision Image Tracking and Registration Program		1,800	
	<b>AEROSPACE TECHNOLOGY DEVELOPMENT/DEMONSTRATION</b>			
20	<b>DEVELOPMENT/DEMONSTRATION</b>	27,424	69,548	42,124
	Advanced Aerospace Titanium Structures (AATS) Initiative		1,300	
	ARES Transfer from Line 61, RDTE, AF		12,024	
	National Aerospace Leadership Initiative		25,000	
	Advanced Satellite Thermal Control Program		1,800	
	Large Scale Affordable Composite Structures		2,000	
	<b>AEROSPACE PROPULSION AND POWER TECHNOLOGY</b>			
21	<b>TECHNOLOGY</b>	115,546	141,546	26,000
	Research Institute for Environmental Studies (TRIES)		2,000	
	Versatile Affordable Advanced Turbine Engines (Note: only for project 681B)		4,000	
	Field Renewable Energy System Hybrids Li Ion Battery Program		2,000	
	Flexible JP-8 Military Fuel Certification		3,000	
	XTC58F Technology Versatile Affordable Advanced Turbine Engine Program		8,000	
	Assured Fuels Process Demonstration Unit		7,000	
	<b>CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOGY</b>			
22	<b>TECHNOLOGY</b>	32,156	49,006	16,850
	Authentic Tactical Flight Simulator for JSF		2,000	
	Full Spectrum Laser Eye Protection		1,000	
	Variable Transmittance Visor		2,000	
	Virtual Medical Trainer		2,700	



R-1	Budget Request	Committee Recommended	Change from Request
		1,000	
		1,500	
<b>32 CSI ADVANCED DEVELOPMENT</b>	<b>35,785</b>	<b>48,535</b>	<b>12,750</b>
Advanced Course in Engineering		1,000	
Advanced Fusion for Urban Operations for Forensic Anticipation of Insurgent Activity (Note: Only to expand the recently demonstrated Intelligence Fusion System to provide dynamic situational awareness of insurgent activities as precursors to critical events.)		6,000	
Non-Traditional Intelligence Surveillance and Reconnaissance		1,500	
Semantic SOA for Dynamic Intelligence Fusion Program		2,250	
National Center for Multi-Source Information Fusion Research		2,000	
<b>40 INTELLIGENCE ADVANCED DEVELOPMENT</b>	<b>4,776</b>	<b>6,776</b>	<b>2,000</b>
TASS Advanced Communications Module		2,000	
<b>49 TRANSFORMATIONAL SATCOM (TSAT)</b>	<b>867,102</b>	<b>767,102</b>	<b>-100,000</b>
Unexecutable Growth		-100,000	
<b>51 INTERCONTINENTAL BALLISTIC MISSILE</b>	<b>45,538</b>	<b>65,038</b>	<b>19,500</b>
Conventional Ballistic Missile Systems Engineering Studies		15,000	
InfraLynx Security Vehicle		4,500	
<b>53 SPACE-BASED RADAR</b>	<b>266,401</b>	<b>200,000</b>	<b>-66,401</b>
Program moderation		-66,401	
<b>54 POLLUTION PREVENTION (DEM/VAL)</b>	<b>2,853</b>	<b>7,553</b>	<b>4,700</b>
Assessment of Alternate Energy for Aircraft Ground Equipment		2,000	
Automating Department of Defense Processes to Fulfill Depot Transformation and Maintenance Needs		2,700	
<b>61 OPERATIONALLY RESPONSIVE SPACE</b>	<b>35,625</b>	<b>23,601</b>	<b>-12,024</b>
ARES Transfer to Line 20, RDTE, AF		-12,024	
<b>64 GLOBAL BROADCAST SERVICE (GBS)</b>	<b>23,599</b>	<b>25,599</b>	<b>2,000</b>
Global Broadcast Service		2,000	
<b>70 B-2 ADVANCED TECHNOLOGY BOMBER</b>	<b>224,177</b>	<b>240,177</b>	<b>16,000</b>
SDB Integration		16,000	
<b>71 PERSONNEL RECOVERY SYSTEMS</b>	<b>254,310</b>	<b>224,310</b>	<b>-30,000</b>
Contract Award Delays		-30,000	
<b>72 ELECTRONIC WARFARE DEVELOPMENT</b>	<b>87,784</b>	<b>92,184</b>	<b>4,400</b>
Air Force requested transfer from APAF Line 53		4,400	
<b>75 SMALL DIAMETER BOMB (SDB)</b>	<b>104,080</b>	<b>106,080</b>	<b>2,000</b>
High Pressure Pure Air Generator		2,000	
<b>80 ALTERNATIVE INFRARED SPACE SYSTEM (AIRSS)</b>	<b>102,962</b>	<b>67,962</b>	<b>-35,000</b>
Program moderation		-35,000	

R-1		Budget Request	Committee Recommended	Change from Request
87	<b>LIFE SUPPORT SYSTEMS</b>	12,370	14,170	1,800
	ACES II Ejection Seat Improvement		1,800	
88	<b>COMBAT TRAINING RANGES</b>	14,363	17,363	3,000
	National Training Center Air Warrior Training Range		3,000	
89	<b>INTEGRATED COMMAND &amp; CONTROL APPLICATIONS</b>	167	17,467	17,300
	Distributed Mission Interoperability Toolkit (DMIT)		5,000	
	Airborne Web Services (AWS) Spiral 4		1,800	
	MEDSTARS		3,500	
	Integration of Force Protection Enterprise Systems		1,800	
	Program Engineering Interoperability Framework		2,500	
	Enterprise Services for Reach Back Capabilities		2,700	
90	<b>INTELLIGENCE EQUIPMENT</b>	1,426	3,426	2,000
	Hard and Deeply Buried Targets		2,000	
	<b>COMMON LOW OBSERVABLES VERIFICATION</b>			
91	<b>SYSTEM</b>	0	4,500	4,500
	Air Force requested transfer from APAF Line 70		4,500	
92	<b>JOINT STRIKE FIGHTER (JSF)</b>	1,999,068	2,200,568	201,500
	Alternate Engine		200,000	
	Second Source Tire Research		1,500	
94	<b>EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM</b>	18,513	20,513	2,000
	Evolved Expendable Launch Vehicle Program		2,000	
95	<b>RDT&amp;E FOR AGING AIRCRAFT</b>	25,490	26,490	1,000
	Common Reconfigurable Advanced Thermal Management System		1,000	
97	<b>LINK-16 SUPPORT AND SUSTAINMENT</b>	172,625	174,625	2,000
	Suitcase Pocket J for Continuity of Homeland Air Defense		2,000	
101	<b>FULL COMBAT MISSION TRAINING</b>	32,243	35,843	3,600
	Distributed Mission Training		3,600	
105	<b>MAJOR T&amp;E INVESTMENT</b>	58,506	63,506	5,000
	Enterprise Test Data Management System (ETDMS) at Edwards AFB		3,000	
	High Resolution Optical Sensor for Test and Evaluation Eglin Air Armament Center		1,000	
			1,000	
106	<b>RAND PROJECT AIR FORCE</b>	25,211	28,211	3,000
	RAND Project Air Force		3,000	
111	<b>ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)</b>	14,704	29,704	15,000
	Space Launch Advanced Technology Research Demonstration		2,000	
	Ballistic Missile Range Safety Technology (BMRST) Program		13,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>FACILITIES RESTORATION &amp; MODERNIZATION - TEST &amp; EVALUATION</b>			
113	54,683	55,683	1,000
		1,000	
<b>FACILITIES SUSTAINMENT - TEST AND EVALUATION</b>			
114	25,579	29,579	4,000
		4,000	
121	71,379	77,379	6,000
		6,000	
129	80,771	16,771	-64,000
		-64,000	
130	148,373	152,373	4,000
		4,000	
131	125,062	138,062	13,000
		13,000	
133	584,290	484,290	-100,000
		-100,000	
140	4,469	15,969	11,500
		10,000	
		1,500	
144	87,483	77,483	-10,000
		-10,000	
149	0	3,250	3,250
		3,250	
153	168,168	101,168	-67,000
		-67,000	
159	23,470	28,970	5,500
		1,000	
		2,500	
		2,000	
162	146,396	129,896	-16,500
		-16,500	
171	183,523	185,523	2,000
		2,000	
173	3,348	15,848	12,500
		2,500	
		10,000	
183	34,899	35,899	1,000
		1,000	
<b>AIR TRAFFIC CONTROL, APPROACH, AND LANDING</b>			
184	0	2,000	2,000
		2,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)</b>			
192 Satellite Assets for Joint Navigation Warfare Center	131,083	133,083	2,000
197 <b>SPACELIFT RANGE SYSTEM (SPACE)</b>	38,044	39,044	1,000
California Space Infrastructure Program Continuity		1,000	
201 <b>MANNED RECONNAISSANCE SYSTEMS</b>	10,132	13,132	3,000
Combat Sent Tactical ELINT System Modernization		3,000	
202 <b>DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS</b>	120,777	124,577	3,800
Distributed Common Ground Station (DCGS) Formal Training Unit		3,800	
203 <b>PREDATOR UAV (JMIP)</b>	61,466	63,966	2,500
Sense and Avoid for Predator		1,500	
Selectively Targeted Skeet Munition		1,000	
204 <b>GLOBAL HAWK UAV</b>	247,665	248,665	1,000
Night Hunter II Integration on RQ-4 Global Hawk		1,000	
207 <b>NCMC - TW/AA SYSTEM</b>	50,908	16,308	-34,600
CCIC2S		-34,600	
215 <b>C-130 AIRLIFT SQUADRON</b>	248,283	213,783	-34,500
Avionics Modernization Program		-20,000	
AMP Training Systems Development		-20,000	
STOL Herk I Continuation		2,500	
C-130 Automated Inspection, Repair, Corrosion, and Aircraft Tracking		3,000	
216 <b>C-5 AIRLIFT SQUADRONS</b>	150,209	152,209	2,000
Inductive Thermography Systems Inspections		2,000	
218 <b>C-130J PROGRAM</b>	40,542	44,542	4,000
Aerial Multi-Axis Platform		4,000	
220 <b>LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM)</b>	34,916	39,916	5,000
Large Aircraft Infrared Countermeasures (LAIRCM) for Air Force Special Operations Forces (AFSOC) AC-130U		5,000	
224 <b>AIR MOBILITY TACTICAL DATA LINK</b>	32,099	20,099	-12,000
Program scope		-12,000	
225 <b>SPECIAL TACTICS / COMBAT CONTROL</b>	1,024	3,024	2,000
Biostatic Protective Clothing		2,000	
229 <b>INDUSTRIAL PREPAREDNESS</b>	36,673	54,473	17,800
Technology Insertion Demonstration and Evaluation		3,000	
Ceramic Ballistic Armor for Soldier and Vehicle Protection		2,000	
WBI-RFID Rapid Adoption Initiative Phase 2		4,000	
Laser Peening Fatigue Life Extension Technology for Military Aircraft Landing Gear		3,000	
Improving MANPADS Survivability Coatings		1,800	
F-35 Joint Strike Fighter Composite Engine Case		4,000	

R-1	Budget Request	Committee Recommended	Change from Request
<b>230 LOGISTICS SUPPORT ACTIVITIES</b>	<b>0</b>	<b>2,000</b>	<b>2,000</b>
REMIS		2,000	
<b>231 LOGISTICS INFORMATION TECHNOLOGY (LOGIT)</b>	<b>166,338</b>	<b>136,338</b>	<b>-30,000</b>
Expeditionary Combat Support System		-30,000	
<b>232 SUPPORT SYSTEMS DEVELOPMENT</b>	<b>10,596</b>	<b>26,696</b>	<b>16,100</b>
Heavy Duty Hybrid Electric Vehicle		3,000	
Air Force Advanced Power and Energy Initiative		3,600	
Production of Alternative Energy for Defense from Alaskan Raw Materials		1,000	
Composite Occupational Health and Operational Risk Tracking System		1,000	
Air Force Medical Service Personal Health Record		2,500	
Fuel Cell Power - Non Tactical Vehicle		1,000	
WR-ALC C-5 Maintenance Transformation		4,000	
<b>New</b>			
<b>Line LIGHT CARGO AIRCRAFT</b>	<b>0</b>	<b>15,783</b>	<b>15,783</b>
Air Force requested transfer from APAF, Line 14		15,783	

## JOINT STRIKE FIGHTER ALTERNATE ENGINE DEVELOPMENT AND COST ANALYSIS

The budget request provided no funding for development of the F-136 engine for the Joint Strike Fighter program. The Committee recommends an additional \$200,000,000 for continued development of this alternate engine source. The Committee directs the Under Secretary of Defense for Acquisition, Technology and Logistics to sponsor a comprehensive independent cost analysis of the Joint Strike Fighter engine program to be conducted by a federally funded research and development center (FFRDC) with demonstrated competence in this area. This analysis shall include but not be limited to: (1) a comparison of costs associated with the development of the F-135 and F-136 engines; (2) an evaluation of potential savings achieved by eliminating or continuing the development and production of an alternate engine over the program's life cycle; and (3) the potential effects on the industrial base of eliminating or continuing the development and production of an alternate engine over the program's life cycle. This analysis shall be transmitted to the congressional defense committees not later than March 15, 2007.

The Committee is supportive of required studies included in the House-passed version of the National Defense Authorization Act, 2007, and intends that this cost analysis be complementary to those studies.

PERSONNEL RECOVERY SYSTEMS—COMBAT SEARCH AND RESCUE—X  
(CSAR-X)

The Committee recommends \$224,310,000 for Personnel Recovery Systems, which is \$133,203,000 more than the amount provided in fiscal year 2006, and \$30,000,000 less than the request for fiscal year 2007.

The Committee is concerned about continued delays in implementing the Combat Search and Rescue Program (CSAR-X). The Committee provided clear direction to the Department of Defense regarding an acquisition strategy in the statement of the managers accompanying the conference report on the Department of Defense Appropriations Act, 2006. The Committee reiterates its strong support for this strategy that minimizes risk and controls research and development cost by advocating, to the maximum extent possible, the integration and procurement of off-the-shelf (OTS) technologies.

The Committee notes that ongoing delays in the award of a system development and demonstration contract have made a significant amount of the fiscal year 2007 request early to need. The Committee has reduced the budget request by \$30,000,000 accordingly. This reduction is taken without prejudice to the program or the requirement.

## KC-135 TANKER REPLACEMENT

The fiscal year 2007 budget request included \$203,932,000 for development of the KC-135 tanker replacement. The Committee has fully funded the request.

The Committee's action should be taken as an indication of its strong support for expediting a development and subsequent procurement program to begin replacement of these aging assets. The

Committee directs that the funds provided are only for development of a tanker replacement and shall not be used as a source for reprogramming.

#### MODERNIZATION CENTERS

The Committee commends the Air Force and its Air Logistics Centers for the initial efforts to inject new technology into aging weapon system parts in order to substantially increase reliability, decrease operational costs, and improve overall weapon system availability. This innovative application of available technology is key to ensuring future performance of these rapidly aging systems while attacking the ever increasing complexity of the sustainment of these systems due to the diminishing vendor situation. The Air Force is encouraged to effect policies and procedures to institutionalize this modernization practice by utilizing industry, academia, and organic repair centers.

#### NATIONAL AEROSPACE LEADERSHIP INITIATIVE

As charged by Congress, the National Aerospace Leadership Initiative (NALI) has been initiated under the direction of the Secretary of the Air Force. This initiative is designed to counter the pervasive and growing global challenge to United States aerospace leadership and the potential adverse effects on our national defense. A primary focus of NALI is to develop programs that will enhance the U.S. aerospace manufacturing supply chain and attract qualified scientists and engineers into the aerospace field. The Committee appreciates the Air Force's response to this initiative and strongly encourages the service to continue to work with the Committee and the participating public and private sector entities to further the goals of this program. As such, the Committee recommends an additional \$25,000,000 under this heading for NALI. However, the Committee anticipates that future funding for NALI will be included in the Air Force's fiscal year 2008 budget request and subsequent requests.

#### COMBATANT COMMANDERS' INTEGRATED COMMAND AND CONTROL SYSTEM (CCIC2S)

The budget requests \$50,908,000 for the CCIC2S. CCIC2S will provide combatant commanders a command and control system for threat warning that incorporates air, missile defense, and space components. The Committee notes that separate but similar and related efforts are currently in development (e.g., Joint Space Operation Center for Space and Joint National Integration Center for Missile Defense). The Committee believes that the Department of Defense has not facilitated sufficient communication between the multiple stakeholders involved in CCIC2S for the current plan to be coordinated across the Department, free of duplication, optimized for the users, and planned in the most efficient and cost effective manner. Therefore the Committee recommends \$16,408,000 for core recapitalization and current operations, a reduction of \$34,600,000. A similar reduction is made in Other Procurement, Air Force based on the same criteria.

The Committee directs the Secretary of Defense initiate a working group to develop a comprehensive and coordinated plan for the Department. The plan, which should be delivered to the congressional defense committees by February 28, 2007, should include the system capability objectives, a nominal information technology architecture, and the resources required to execute the plan. Further, the Committee directs the Department delay further development and integration of the missile defense and space components. The Department should focus on core recapitalization and current operations until this plan has been approved and funds for it are provided.

#### OPERATIONALLY RESPONSIVE SPACE

The budget requests \$35,386,000 for Operationally Responsive Space, of which \$19,524,000 are for the Affordable Responsive Space-lift (ARES) program and \$16,000,000 are for the FALCON small launch vehicle program. The Committee is pleased to see the Air Force initiate a program element for this project, but is concerned with the current structure.

The Committee notes that several entities have attempted to frame their projects as Operationally Responsive Space and is not convinced that ARES fits the definition. The Committee believes that ARES is a general technology development project outside of responsive space and should be funded as such. Therefore, the Committee has transferred \$12,024,000 of the \$19,524,000 budgeted for the ARES program from PE 604857F to PE 603211F to execute the program, but these funds are fenced until the Air Force meets the request for a suitable description of a comprehensive plan for the future of space launch. Future technology development towards any demonstration should be funded from this program element. Additionally, the Committee directs that the remaining \$7,500,000 be used for the purposes described in the classified annex.

The Committee recognizes, within the FALCON small launch vehicle program, that phase 2 has not been completed and insufficient funding has been allocated to complete the program. However, preparation for launch is prematurely funded in fiscal year 2007. The Committee directs the all \$3,240,000 associated with the launch preparation be applied to the completion of phase 2 in order to reach a demonstration launch as soon as possible.

#### SPACE RADAR

The budget requests \$266,401,000 for Space Radar, an increase of \$166,401,000 or 166% over the appropriated level for fiscal year 2006. The Committee is concerned about the executability of such a large increase and therefore recommends \$200,000,000, a reduction of \$66,401,000.

The Committee is pleased with the restructuring of the program that has occurred beginning in late fiscal year 2005. However, the Committee is concerned about the possibility of a premature decision to initiate an operational system. For a successful Space Radar program, the Air Force must fully leverage all current or planned—radar systems—ground, air, or space—to pursue the development of ground exploitation capabilities, horizontal integration, radar

technology maturation, and new technology breakthroughs that will achieve program affordability.

PROGRAM RECOMMENDED

The total program recommended in the bill will provide the following in fiscal year 2007:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
-----			
RESEARCH, DEVELOPMENT, TEST & EVAL, AF			
BASIC RESEARCH			
DEFENSE RESEARCH SCIENCES.....	250,232	259,832	+9,600
UNIVERSITY RESEARCH INITIATIVES.....	107,571	112,571	+5,000
HIGH ENERGY LASER RESEARCH INITIATIVES.....	12,403	12,403	---
TOTAL, BASIC RESEARCH.....	370,206	384,806	+14,600
-----			
APPLIED RESEARCH			
MEDICAL DEVELOPEMENT.....	---	24,300	+24,300
MATERIALS.....	111,073	144,273	+33,200
AEROSPACE VEHICLE TECHNOLOGIES.....	112,751	124,351	+11,600
HUMAN EFFECTIVENESS APPLIED RESEARCH.....	92,991	104,691	+11,700
AEROSPACE PROPULSION.....	170,885	204,835	+33,950
AEROSPACE SENSORS.....	117,553	132,553	+15,000
MULTI-DISCIPLINARY SPACE TECHNOLOGY.....	---	3,500	+3,500
SPACE TECHNOLOGY.....	85,594	90,344	+4,750
CONVENTIONAL MUNITIONS.....	62,105	62,105	---
DIRECTED ENERGY TECHNOLOGY.....	48,422	57,422	+9,000
COMMAND CONTROL AND COMMUNICATIONS.....	119,267	122,267	+3,000
HIGH ENERGY LASER RESEARCH.....	50,166	51,166	+1,000
JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS).....	2,287	2,287	---
TOTAL, APPLIED RESEARCH.....	973,094	1,124,094	+151,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ADVANCED TECHNOLOGY DEVELOPMENT			
ADVANCED MATERIALS FOR WEAPON SYSTEMS.....	48,901	66,501	+17,600
ADVANCED AEROSPACE SENSORS.....	55,150	60,450	+5,300
AEROSPACE TECHNOLOGY DEV/DEMO.....	27,424	69,548	+42,124
AEROSPACE PROPULSION AND POWER TECHNOLOGY.....	115,546	141,546	+26,000
CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOGY.....	32,156	49,006	+16,850
ELECTRONIC COMBAT TECHNOLOGY.....	24,436	30,436	+6,000
BALLISTIC MISSILE TECHNOLOGY.....	---	9,000	+9,000
ADVANCED SPACECRAFT TECHNOLOGY.....	68,026	92,926	+24,900
MAUI SPACE SURVEILLANCE SYSTEM (MSSS).....	6,074	6,074	---
CONVENTIONAL WEAPONS TECHNOLOGY.....	19,658	45,958	+26,300
ADVANCED WEAPONS TECHNOLOGY.....	51,336	62,336	+11,000
C3I ADVANCED DEVELOPMENT.....	35,785	48,535	+12,750
SPECIAL PROGRAMS.....	316,605	316,605	---
HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM.....	3,713	3,713	---
TACTICAL AIRBORNE CONTROL SYSTEMS.....	26	26	---
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	804,836	1,002,660	+197,824
DEMONSTRATION & VALIDATION			
INTELLIGENCE ADVANCED DEVELOPMENT.....	4,776	6,776	+2,000
PHYSICAL SECURITY EQUIPMENT.....	298	298	---
NAVSTAR GLOBAL POSITIONING SYSTEM III.....	315,314	315,314	---
ADVANCED EHF MILSATCOM (SPACE).....	633,258	633,258	---
POLAR MILSATCOM (SPACE).....	35,685	35,685	---
SPACE CONTROL TECHNOLOGY.....	27,076	27,076	---
COMBAT IDENTIFICATION TECHNOLOGY.....	26,517	26,517	---
NATO RESEARCH AND DEVELOPMENT.....	4,095	4,095	---
INTERNATIONAL SPACE COOPERATIVE R&D.....	593	593	---
TRANSFORMATIONAL SATCOM (TSAT).....	867,102	767,102	-100,000
INTEGRATED BROADCAST SERVICE.....	20,592	20,592	---
INTERCONTINENTAL BALLISTIC MISSILE.....	45,538	65,038	+19,500
WIDEBAND GAFILLER SYSTEM RDT&E (SPACE).....	37,672	37,672	---
SPACE-BASED RADAR.....	266,401	200,000	-66,401
POLLUTION PREVENTION (DEM/VAL).....	2,853	7,553	+4,700
JOINT PRECISION APPROACH AND LANDING SYSTEMS.....	10,011	10,011	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
NEXT GENERATION BOMBER.....	25,598	25,598	---
COMMON AERO VEHICLE (CAV).....	33,386	33,386	---
OPERATIONALLY RESPONSIVE SPACE.....	35,625	23,601	-12,024
NATIONAL POLAR-ORBITING OPERATIONAL ENVIRONMENTAL SAT.....	349,311	349,311	---
TOTAL, DEMONSTRATION & VALIDATION.....	2,741,701	2,589,476	-152,225
ENGINEERING & MANUFACTURING DEVELOPMENT			
GLOBAL BROADCAST SERVICE (GBS).....	23,599	25,599	+2,000
JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS).....	2,792	2,792	---
NUCLEAR WEAPONS SUPPORT.....	14,895	14,895	---
B-1B.....	130,546	130,546	---
SPECIALIZED UNDERGRADUATE FLIGHT TRAINING.....	3,703	3,703	---
B-2 ADVANCED TECHNOLOGY BOMBER.....	224,177	240,177	+16,000
PERSONNEL RECOVERY SYSTEMS.....	254,310	224,310	-30,000
ELECTRONIC WARFARE DEVELOPMENT.....	87,784	92,184	+4,400
PHYSICAL SECURITY EQUIPMENT.....	93	93	---
SMALL DIAMETER BOMB (SDB).....	104,080	106,080	+2,000
COUNTERSPACE SYSTEMS.....	47,292	47,292	---
SPACE SITUATION AWARENESS SYSTEMS.....	121,157	121,157	---
AIRBORNE ELECTRONIC ATTACK.....	12,421	12,421	---
SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD.....	668,902	668,902	---
ALTERNATIVE INFRARED SPACE SYSTEM (AIRSS).....	102,962	67,962	-35,000
ARMAMENT/ORDNANCE DEVELOPMENT.....	5,039	5,039	---
SUBMUNITIONS.....	5,759	5,759	---
AGILE COMBAT SUPPORT.....	10,095	10,095	---
JOINT DIRECT ATTACK MUNITION.....	15,450	15,450	---
LIFE SUPPORT SYSTEMS.....	12,370	14,170	+1,800
COMBAT TRAINING RANGES.....	14,363	17,363	+3,000
INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A).....	167	17,467	+17,300
INTELLIGENCE EQUIPMENT.....	1,426	3,426	+2,000
COMMON LOW OBSERVABLES VERIFICATION SYSTEM (CLOVERS).....	---	4,500	+4,500
JOINT STRIKE FIGHTER (JSF).....	1,999,068	2,200,568	+201,500
EVOLVED EXPENDABLE LAUNCH VEHICLE PROGRAM (SPACE).....	18,513	20,513	+2,000
RDT&E FOR AGING AIRCRAFT.....	25,490	26,490	+1,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
TEST AND EVALUATION SUPPORT .....	2,388	2,388	---
LINK-16 SUPPORT AND SUSTAINMENT .....	172,625	174,625	+2,000
E-10 SQUADRONS .....	390,896	390,896	---
SINGLE INTEGRATED AIR PICTURE (SIAP) .....	40,124	40,124	---
FULL COMBAT MISSION TRAINING .....	32,243	35,843	+3,600
CV-22 .....	26,601	26,601	---
<b>TOTAL, ENGINEERING &amp; MANUFACTURING DEVELOPMENT .....</b>	<b>4,571,330</b>	<b>4,769,430</b>	<b>+198,100</b>
RDT&E MANAGEMENT SUPPORT THREAT SIMULATOR DEVELOPMENT .....	38,131	38,131	---
MAJOR T&E INVESTMENT .....	58,506	63,506	+5,000
RAND PROJECT AIR FORCE .....	25,211	28,211	+3,000
INITIAL OPERATIONAL TEST & EVALUATION .....	34,802	34,802	---
TEST AND EVALUATION SUPPORT .....	740,134	740,134	---
ROCKET SYSTEMS LAUNCH PROGRAM (SPACE) .....	14,704	29,704	+15,000
SPACE TEST PROGRAM (STP) .....	46,310	46,310	---
FACILITIES RESTORATION & MODERNIZATION - TEST & EVAL ..	54,683	55,683	+1,000
FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT ..	25,579	29,579	+4,000
GENERAL SKILL TRAINING .....	305	305	---
INTERNATIONAL ACTIVITIES .....	3,911	3,911	---
<b>TOTAL, RDT&amp;E MANAGEMENT SUPPORT .....</b>	<b>1,042,276</b>	<b>1,070,276</b>	<b>+28,000</b>
OPERATIONAL SYSTEMS DEVELOPMENT ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY .....	8,014	8,014	---
B-52 SQUADRONS .....	71,379	77,379	+6,000
ADVANCED CRUISE MISSILE .....	6,983	6,983	---
AIR-LAUNCHED CRUISE MISSILE (ALCM) .....	3,736	3,736	---
STRAT WAR PLANNING SYSTEM - USSTRATCOM .....	27,285	27,285	---
NIGHT FIST - USSTRATCOM .....	5,162	5,162	---
ADVANCED STRATEGIC PROGRAMS .....	22,423	22,423	---
REGION/SECTOR OPERATION CONTROL CENTER MODERNIZATION ..	14,853	14,853	---
WARFIGHTER RAPID ACQUISITION PROCESS (WRAP) RAPID TRAN	30,584	30,584	---
A-10 SQUADRONS .....	80,771	16,771	-64,000
F-16 SQUADRONS .....	148,373	152,373	+4,000
F-15E SQUADRONS .....	125,062	138,062	+13,000

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
MANNED DESTRUCTIVE SUPPRESSION.....	515	515	---
F-22 SQUADRONS.....	584,290	484,290	-100,000
F-117A SQUADRONS.....	14,093	14,093	---
TACTICAL AIM MISSILES.....	8,850	8,850	---
ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE (AMRAAM).....	43,417	43,417	---
AF TENCAP.....	11,202	11,202	---
SPECIAL EVALUATION PROGRAM.....	530,038	530,038	---
COMPASS CALL.....	4,469	15,969	+11,500
AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM.....	154,319	154,319	---
CSAF INNOVATION PROGRAM.....	1,612	1,612	---
JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM).....	40,881	40,881	---
AIR AND SPACE OPERATIONS CENTER (AOC).....	87,483	77,483	-10,000
CONTROL AND REPORTING CENTER (CRC).....	8,798	8,798	---
AIRBORNE WARNING AND CONTROL SYSTEM (AWACS).....	165,820	165,820	---
TACTICAL AIRBORNE CONTROL SYSTEMS.....	2,286	2,286	---
ADVANCED COMMUNICATIONS SYSTEMS.....	53,093	53,093	---
EVALUATION AND ANALYSIS PROGRAM.....	---	3,250	+3,250
ADVANCED PROGRAM TECHNOLOGY.....	313,251	313,251	---
THEATER BATTLE MANAGEMENT (TBM) C4I.....	31,835	31,835	---
FIGHTER TACTICAL DATA LINK.....	113,388	113,388	---
BOMBER TACTICAL DATA LINK.....	168,168	101,168	-67,000
C2ISR TACTICAL DATA LINK.....	4,338	4,338	---
COMMAND AND CONTROL (C2) CONSTELLATION.....	44,027	44,027	---
JOINT SURVEILLANCE AND TARGET ATTACK RADAR SYSTEM .....	152,696	152,696	---
SEEK EAGLE.....	16,426	16,426	---
ADVANCED PROGRAM EVALUATION.....	437,057	437,057	---
USAF MODELING AND SIMULATION.....	23,470	28,970	+5,500
WARGAMING AND SIMULATION CENTERS.....	6,595	6,595	---
DISTRIBUTED TRAINING AND EXERCISES.....	6,138	6,138	---
MISSION PLANNING SYSTEMS.....	146,396	129,896	-16,500
INFORMATION WARFARE SUPPORT.....	24,758	24,758	---
E-4B NATIONAL AIRBORNE OPERATIONS CENTER (NAOC).....	283	283	---
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK ...	64,109	64,109	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
INFORMATION SYSTEMS SECURITY PROGRAM.....	183,523	185,523	+2,000
GLOBAL COMBAT SUPPORT SYSTEM.....	19,895	19,895	---
GLOBAL COMMAND AND CONTROL SYSTEM.....	3,348	15,848	+12,500
JOINT COMMAND AND CONTROL PROGRAM (JC2).....	5,818	5,818	---
MILSATCOM TERMINALS.....	271,562	271,562	---
AIRBORNE SIGINT ENTERPRISE.....	117,834	117,834	---
GLOBAL AIR TRAFFIC MANAGEMENT (GATH).....	6,620	6,620	---
SATELLITE CONTROL NETWORK (SPACE).....	19,907	19,907	---
WEATHER SERVICE.....	34,899	35,899	+1,000
AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM (ATC AERIAL TARGETS.....	---	2,000	+2,000
5,203	5,203	---	
SECURITY AND INVESTIGATIVE ACTIVITIES.....	509	509	---
DEFENSE METEOROLOGICAL SATELLITE PROGRAM (SPACE).....	969	969	---
NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)....	131,083	133,083	+2,000
NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE AND CONTROL)...	177,792	177,792	---
SPACE AND MISSILE TEST AND EVALUATION CENTER.....	4,675	4,675	---
SPACE WARFARE CENTER.....	726	726	---
SPACELIFT RANGE SYSTEM (SPACE).....	38,044	39,044	+1,000
INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS.....	3,813	3,813	---
AIRBORNE RECONNAISSANCE SYSTEMS.....	52,824	52,824	---
MANNED RECONNAISSANCE SYSTEMS.....	10,132	13,132	+3,000
DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	120,777	124,577	+3,800
PREDATOR UAV (JMIP).....	61,466	63,966	+2,500
GLOBAL HAWK UAV.....	247,665	248,665	+1,000
NETWORK-CENTRIC COLLABORATIVE TARGET (TIARA).....	8,499	8,499	---
INTELLIGENCE SUPPORT TO INFORMATION WARFARE.....	5,163	5,163	---
NCMC - TW/AA SYSTEM.....	50,908	16,308	-34,600
NUDET DETECTION SYSTEM (SPACE).....	60,281	60,281	---
NATIONAL SECURITY SPACE OFFICE.....	13,437	13,437	---
SPACE SITUATION AWARENESS OPERATIONS.....	31,401	31,401	---
NASS, IO TECHNOLOGY INTEGRATION & TOOL DEV.....	15,449	15,449	---
SHARED EARLY WARNING (SEW).....	2,999	2,999	---
C-130 AIRLIFT SQUADRON.....	248,283	213,783	-34,500

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
C-5 AIRLIFT SQUADRONS.....	150,209	152,209	+2,000
C-17 AIRCRAFT.....	173,781	173,781	---
C-130J PROGRAM.....	40,542	44,542	+4,000
LARGE AIRCRAFT IR COUNTERMEASURES (LAIRCM).....	34,916	39,916	+5,000
KC-135S.....	1,126	1,126	---
KC-10S.....	4,781	4,781	---
KC-135 TANKER REPLACEMENT.....	203,932	203,932	---
AIR MOBILITY TACTICAL DATA LINK.....	32,099	20,099	-12,000
SPECIAL TACTICS / COMBAT CONTROL.....	1,024	3,024	+2,000
DEPOT MAINTENANCE (NON-IF).....	1,457	1,457	---
ACQUISITION AND MANAGEMENT SUPPORT.....	17,706	17,706	---
INDUSTRIAL PREPAREDNESS.....	36,673	54,473	+17,800
LOGISTICS SUPPORT ACTIVITIES.....	---	2,000	+2,000
LOGISTICS INFORMATION TECHNOLOGY (LOGIT).....	166,338	136,338	-30,000
SUPPORT SYSTEMS DEVELOPMENT.....	10,596	26,696	+16,100
JOINT NATIONAL TRAINING CENTER.....	3,073	3,073	---
OTHER PERSONNEL ACTIVITIES.....	113	113	---
JOINT PERSONNEL RECOVERY AGENCY.....	992	992	---
CIVILIAN COMPENSATION PROGRAM.....	7,779	7,779	---
PERSONNEL ADMINISTRATION.....	18,262	18,262	---
FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT..	27,541	27,541	---
LIGHT CARGO AIRCRAFT.....	---	15,783	+15,783
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	6,697,170	6,467,303	-229,867
CLASSIFIED PROGRAMS.....	7,196,154	7,049,017	-147,137
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, AF.....	24,396,767	24,457,062	+60,295

RESEARCH, DEVELOPMENT, TEST AND EVALUATION,  
DEFENSE-WIDE

Fiscal year 2006 appropriation .....	19,600,607,000
Fiscal year 2007 budget request .....	20,809,939,000
Committee recommendation .....	21,208,264,000
Change from budget request .....	+398,325,000

The appropriation provides funds for the research, development, test and evaluation activities of the Department of the Defense for defense-wide activities.

COMMITTEE RECOMMENDATION

The Committee recommends an appropriation of \$21,208,264,000 for Research, Development, Test and Evaluation, Defense-Wide. The following report and project level tables provide a summary of the Committee's recommendation.

**EXPLANATION OF PROJECT LEVEL ADJUSTMENTS**  
[in thousands of dollars]

	Budget	Committee	Change from
	Request	Recommended	Request
<b>DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC</b>			
<b>1 RESEARCH PROGRAM</b>	<b>5,000</b>	<b>12,300</b>	<b>7,300</b>
WMD Technologies for Defense		4,500	
Dual Use Technologies Project for Defense at FGCU		1,500	
Biomedical Engineering Initiative for Defense Use (Note: for continuation only)		1,300	
<b>2 DEFENSE RESEARCH SCIENCES</b>	<b>150,690</b>	<b>173,190</b>	<b>22,500</b>
Alternative Futures at the Range-Complex Level for the Southwest US		1,000	
Focus Center Defense Research Program		10,000	
Institute of Comparative Genomics: Advanced Research to Further National Security Goals		3,000	
John H. Hopps Defense Research Scholars Program		2,000	
India/Industry Collaborative Effort for Defense Research		5,000	
Drug Discovery and Development Initiative for National Security		1,500	
<b>GOVERNMENT/INDUSTRY COSPONSORSHIP OF</b>			
<b>3 UNIVERSITY RESEARCH</b>	<b>0</b>	<b>2,700</b>	<b>2,700</b>
Bio/Nano Electronic Defense Devices and Sensors		2,700	
<b>6 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>99,182</b>	<b>117,782</b>	<b>18,600</b>
CB Initiative Program		5,000	
Detection of Biological Agents in Water for National Security		1,500	
Anthrax Vaccine Research		500	
New York Structural Biology Center for Chem-Bio Defense (Note: only for Department of Defense military activities)		2,600	
High Speed, High Volume Laboratory Network for Infectious Disease - UCLA/LANL (Note: only for Department of Defense military activities)		6,000	
Northeast Biodefense Center for National Security (Note: only for Department of Defense military activities)		1,000	
Mismatch Repair Derived Medicines to Treat Clostridium, Staphylococcus and Bacillus Bioweapons		2,000	
<b>HISTORICALLY BLACK COLLEGES &amp; UNIVERSITY</b>			
<b>9 (HBCU) SCIENCES</b>	<b>14,423</b>	<b>17,923</b>	<b>3,500</b>
Center for Human and Material Science Performance for National Security (Note: only for Department of Defense military activities)		1,000	
Nanoscience and Biotechnology Laboratory Research Program (Note: only for Department of Defense military activities)		1,500	
The Defense Leadership and Technology Initiative		1,000	
<b>12 COGNITIVE COMPUTING SYSTEMS</b>	<b>220,085</b>	<b>222,085</b>	<b>2,000</b>
SOSI -- Secure Open Systems Institute for Defense		2,000	

	Budget Request	Committee Recommended	Change from Request
<b>14 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>280,422</b>	<b>284,822</b>	<b>4,400</b>
TMTI		-30,000	
CB Initiative Program		10,000	
Asymmetrical Protocols for Biological Defense Enhancement		2,400	
Alternative Delivery Methods for Recombinant Protein Vaccines		1,500	
Chemical Warfare Agent Fate Model Verification and Validation Phase II		2,000	
Fault Protected Drives for Laser Diodes for Defense Use		1,000	
Low-cost Protective Chem-bio Shelter		4,000	
Multipurpose Biodefense Immunoarray		2,000	
National Center for Integrated Civilian-Military Medical Response and Homeland Defense (Note: only for Department of Defense military activities)		1,500	
ND Center for Environmental Networked Embedded Sensor Technology (CENEST) (Note: only for Department of Defense military activities)		3,000	
Theater-Level Modeling of Chemical and Biological Operational Effects		1,000	
Zumwalt National Program for Countermeasures to Biological and Chemical Threats		2,000	
Botulinum Neurotoxin Research		3,000	
Specific Gas Detector		1,000	
<b>15 TACTICAL TECHNOLOGY</b>	<b>383,680</b>	<b>388,280</b>	<b>4,600</b>
NASEC Representing Enriched Context (RECON) & Robust, Responsive, Reconfigurable Invisible (r3I) Antenna Systems		1,800	
Extreme Light Sources for Defense Applications		1,800	
Optical Sensor System		1,000	
<b>17 WMD DEFEAT TECHNOLOGY</b>	<b>213,152</b>	<b>215,552</b>	<b>2,400</b>
Center for Nonproliferation Studies, Monterey Institute for International Affairs		2,000	
MMI Nanotechnology		400	
<b>18 ELECTRONICS TECHNOLOGY</b>	<b>246,978</b>	<b>248,978</b>	<b>2,000</b>
Secure Advanced Electronics Fabrication "SAEF" (Note: only for Department of Defense military activities)		2,000	
<b>19 WMD DEFENSE TECHNOLOGIES</b>	<b>105,021</b>	<b>111,021</b>	<b>6,000</b>
Comprehensive National Incident Characterization and Management Systems (Note: only for Department of Defense military activities)		4,000	
Center for Blast Mitigation and Protection		1,000	
Real-time Bio Detection System (RTBDS)		1,000	
<b>21 SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT</b>	<b>12,698</b>	<b>22,698</b>	<b>10,000</b>
Close-in Layered Shield		5,000	
Global Observer Hydrogen Fueled Unmanned Aircraft System		5,000	
<b>24 SO/LIC ADVANCED DEVELOPMENT</b>	<b>30,575</b>	<b>41,575</b>	<b>11,000</b>
Day/Night Wide Area Surveillance System		2,000	
Multiband BIGFOOT Tag		3,000	
Day/Night Wide Area Surveillance Systems (DNWASS)		2,000	

	Budget Request	Committee Recommended	Change from Request
Explosive Ordnance Disposal/Low Conflict (EOD/LIC)			
Advanced Robotic Vehicle Development		3,000	
Aerial Canopy Sensor Delivery System		1,000	
<b>25 COMBATING TERRORISM TECHNOLOGY SUPPORT</b>	<b>65,768</b>	<b>121,018</b>	<b>55,250</b>
Counter Terrorism Quality Assurance Science (CT-QAS) Program		2,000	
Asymmetric Warfare		3,600	
Civil Support Teams - Tactical Support Surveys for Alaska National Guard		1,000	
Bioterrorism Operations Policy for Public Emergency Response (BOPPER) (Note: only for Department of Defense military activities)		2,000	
Distributed Intrinsic Chemical Agent Sensing and Transmission		1,000	
Language Learning Center (LLC) (Note: only for Department of Defense military activities)		700	
Early Responders Distance Learning Center (Note: only for Department of Defense military activities)		1,750	
Roll-On, Roll-Off Reconnaissance Pallet Improvements		3,600	
Autonomous Re-Supply UAS		1,800	
TSWG Information Sharing Pilot Project (Note: for continuation only)		2,700	
U.S. and Iraqi Force Protection Program		3,000	
Defense Against Explosive Effects Explosive Loading Laboratory		5,000	
Facility Security (Note: only for Department of Defense military activities)		10,000	
Port and Hull Security 3D, Real Time Sonar System - Echoscope		4,000	
DoD Portable Armor Wall System		1,800	
Comprehensive Port and Maritime Domain Awareness		7,300	
National Terrorism Preparedness Institute/WMD Military and Emergency Responder Training		4,000	
<b>26 COUNTERPROLIFERATION INITIATIVES-- PROLIFERATION PREVENTION &amp; DEFEAT</b>	<b>104,582</b>	<b>114,682</b>	<b>10,100</b>
Near Infrared Imaging Experiment		2,000	
Open Source Intelligence Center		3,000	
New Technology for Detecting Nuclear Weapons Materials		1,000	
National Nuclear Security Agency (NNSA) Metals Declassification for reuse by DoD in Armament		1,600	
Connectory Expansion for Rapid Identification of Technology Sources for DoD		500	
Continuation of Advanced Materials (Mercuric Iodide) research for Nuclear Detection, Counter-proliferation and Imaging for CBRNE Special Operations		2,000	
<b>27 BALLISTIC MISSILE DEFENSE TECHNOLOGY</b>	<b>206,676</b>	<b>189,076</b>	<b>-17,600</b>
High Altitude Airship		-20,000	
Advanced Processing Architecture		2,400	

	Budget Request	Committee Recommended	Change from Request
<b>CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM -</b>			
<b>31 ADVANCED DEVELOPMENT</b>	<b>207,114</b>	<b>238,714</b>	<b>31,600</b>
TMTI		-20,000	
CB Initiative Program		10,000	
Anthrax and A. Baumannii Research		1,000	
Anthrax Monoclonal Antibody Therapeutic and Prophylaxis Program		2,000	
Antioxidant Micronutrient Therapeutic Countermeasures for Chemical Agents		3,000	
Bioterrorism Preparedness		2,600	
Carbon Nanotube Bio-Chem Detector		2,000	
Chem-bio Preparedness Center (Note: only for DoD military activities)		2,000	
Chemical/Biological Defense Program - Advanced Development		2,300	
Hand-Held Biosensor and Continuous Monitor for Biodetection		1,800	
Immunological Biological/Chemical Agent Detection System		1,000	
Liquid Crystal Sensor Technology Research and Development for Force Protection		1,000	
Modular Chemical and Biological Detection System		1,000	
Next Generation Threat Detection		2,600	
Novel Viral Biowarfare Agent ID and Treatment		4,000	
Portable Rapid Bacterial Warfare Detection Unit		1,500	
Protective Self-Decontaminating Surfaces		2,800	
Rapid Response Database Systems Initiative (Note: only for Department of Defense military activities)		2,000	
Rapid Response Sensor Networking for Multiple DoD Applications Phase 3		1,000	
Rapid Response Therapeutic Platform for Biodefense		2,000	
Removal of NBC Agents in Drinking Water		2,000	
Small Accelerators and Detection Systems for Defense Applications		2,000	
Unmanned Vehicle CBRNE Unitary Sensor Suite Development and Demonstration		2,000	
<b>33 JOINT ELECTRONIC ADVANCED TECHNOLOGY</b>	<b>9,400</b>	<b>11,400</b>	<b>2,000</b>
Counter-Man Portal Air Defense System (MANPADS)			
Airspace Protection (CMAPS)		2,000	
<b>34 JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS</b>	<b>35,553</b>	<b>38,053</b>	<b>2,500</b>
Computer Assisted Threat Exploitation System		2,500	
<b>GENERIC LOGISTICS R&amp;D TECHNOLOGY</b>			
<b>36 DEMONSTRATIONS</b>	<b>23,437</b>	<b>63,737</b>	<b>40,300</b>
Defense Technology Showcase Initiative		3,000	
Distributed Inventory Management System (DIMS) (Note: only for Department of Defense military activities)		1,000	
Emerging Critical Interconnection Technology Program - Embedded Passives Test Bed (Note: only for Department of Defense military activities)		4,300	
Locust MAV Enhancement Program (LME) Extended Warfighter Capability		2,000	

	Budget Request	Committee Recommended	Change from Request
Networked Micro-Sensors Technology Testbed at UTD (Note: only for Department of Defense military activities)		2,500	
Secure Digital Coherent Optical Communication		3,000	
Spintronics Memory Storage Technology		10,000	
California Center for Nanoscience Innovations for Defense (CALCNID)		12,000	
Florida Defense Manufacturing Initiative		2,500	
<b>38 STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM</b>	<b>67,149</b>	<b>68,149</b>	<b>1,000</b>
CMU Research Corporation Dendrimer Enhanced Water Remediation		1,000	
<b>MICROELECTRONIC TECHNOLOGY DEVELOPMENT</b>			
<b>39 AND SUPPORT</b>	<b>0</b>	<b>46,600</b>	<b>46,600</b>
DoD Advanced Filter Program		1,000	
Mode 5 / Mode S Identification Friend or Foe (IFF) System Technology		2,000	
Regional Defense Command Integration Center at Forbes Field (ANG) (Note: only for Department of Defense military activities)		4,500	
DoD Advanced Dynamic Technology Optics Program		1,000	
SuperLattice Nanotechnology		4,000	
Ultra-High Energy Micro Fuel Cell		4,000	
University Materials Characterization and Metrology Center		1,000	
Semiconductor Photomask Technology Defense Initiative		4,500	
DMEA Core Research Funding		20,000	
DoD Advanced Beam Steering Program		1,000	
Foliage-Penetrating Acoustically Cued Imagery Sensor (FACIS)		3,600	
<b>41 ADVANCED ELECTRONICS TECHNOLOGIES</b>	<b>248,627</b>	<b>250,627</b>	<b>2,000</b>
Center for Advanced Microelectronics Manufacturing		2,000	
<b>ADVANCED CONCEPT TECHNOLOGY</b>			
<b>42 DEMONSTRATIONS</b>	<b>158,334</b>	<b>162,834</b>	<b>4,500</b>
Processing Fuel Cell Components for Light Weight, Low Cost Transportation System using a 3+ Ring Extruder (Note: only for Department of Defense military activities)		3,000	
Special Operations Command Target Tracking and Knowledge Discovery System		1,500	
<b>HIGH PERFORMANCE COMPUTING MODERNIZATION</b>			
<b>43 PROGRAM</b>	<b>175,313</b>	<b>189,313</b>	<b>14,000</b>
Data Intensive, High Performance Computing, Phase 3		4,000	
High Performance Computational Design of Novel Materials (Note: only for Department of Defense military activities)		1,000	
High Performance Computer Prototype - Naval Research Lab		5,000	
High Performance Computing for Modeling and Simulation Research (Note: only for Department of Defense military activities)		2,000	
W-P HPC Modernization		2,000	
<b>DISTRIBUTED LEARNING ADVANCED TECHNOLOGY</b>			
<b>50 DEVELOPMENT</b>	<b>14,918</b>	<b>18,518</b>	<b>3,600</b>
Immersive Learning Environments (ILES)		3,600	

	Budget Request	Committee Recommended	Change from Request
<b>57 TECHNOLOGY LINK</b>	<b>6,822</b>	<b>9,622</b>	<b>2,800</b>
Techlink Southeast		1,000	
IEE Technology Transfer Project		1,800	
<b>59 SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT</b>	<b>80,402</b>	<b>152,352</b>	<b>71,950</b>
Advanced Multi-Purpose Microdisplay System		1,800	
Fuel Cell Power Systems for SOCOM Applications		2,400	
Field Experimentation Program for Special Operations		1,500	
High Altitude Long Endurance Airship (note only for the development of a fully-automated synthesis device for producing electronically and optically active nanostructures)		1,500	
Satellite Synthetic Aperture Radar (SATSAR) Phase II		4,500	
Special Operations Portable Power Source		2,000	
Transliteration and Genealogical Search Tools		1,500	
USSOCOM Tele-training System (SOFTS) for Foreign Language Training		2,000	
Partnership for Defense Innovations WI-FI Test Laboratory		2,400	
Remote Video Weapons Sight		4,000	
Field-Deployable Digital Holographic Imager (FDDHI)		3,000	
Improved Materials for Fireproof Protective Clothing		1,800	
Improved Special Operations Fast Rope (Soft Rope) Kit		1,800	
Airborne Psychological Operations Modernization Program		1,800	
Waterfront Perimeter Intrusion Detection		1,800	
Short Wave Infrared Technologies		1,350	
Autonomous Navigation Sensor Suites		1,800	
Counter Sniper & Surveillance Detection System (CSS)		2,500	
Life Cycle Support for Unmanned Systems		2,700	
Army DRAMA/Composer Integration & Development		1,800	
Target Location, Identification, and Engagement with Unmanned Systems		2,000	
Improved Information Transfer for Special Forces		7,000	
Multimode Radar with Low Probability of Intercept/ Low Probability of Detection Capability		3,000	
A-160 UAV Program		8,000	
Improvised Rapid Install Aircraft Self Defense EW Mounting System for USSOCOM/USMC		6,000	
UAV Situational Awareness System		2,000	
<b>60 NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT</b>	<b>33,890</b>	<b>36,890</b>	<b>3,000</b>
Integrated High Activity Response System (INHARS)		2,000	
Digital Network Centric Remotely Operated Weapons System		1,000	
<b>63 JOINT ROBOTICS PROGRAM</b>	<b>12,210</b>	<b>22,010</b>	<b>9,800</b>
Joint Robotics Program		5,000	
Autonomous Machine Vision for Mapping and Investigation		1,000	
National Robotics Training Center of Excellence		2,000	
CU of PA/CMU Robotics Workforce Curriculum Partnership		1,800	
<b>64 ADVANCED SENSOR APPLICATIONS PROGRAM</b>	<b>18,820</b>	<b>20,320</b>	<b>1,500</b>
Subterranean Defense Communications System		1,500	

	Budget	Committee	Change from
	Request	Recommended	Request
<b>ENVIRONMENTAL SECURITY TECHNICAL</b>			
<b>65 CERTIFICATION PROGRAM</b>	<b>28,841</b>	<b>35,841</b>	<b>7,000</b>
Inland Empire Wellhead Treatment of Perchlorate Contaminated Wells		2,500	
UXO Innovative Technology Transfer		2,500	
Detection and Recovery of UXO		2,000	
<b>BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE</b>			
<b>67 SEGMENT</b>	<b>1,038,310</b>	<b>1,008,310</b>	<b>-30,000</b>
Unexecutable Test Program (1 test)		-30,000	
<b>BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE</b>			
<b>68 SEGMENT</b>	<b>2,876,972</b>	<b>2,758,072</b>	<b>-118,900</b>
Block 2010		-55,800	
Long Lead Interceptors 41-50		-63,100	
Concurrent Test		(20,000)	
<b>70 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>73,111</b>	<b>87,111</b>	<b>14,000</b>
Naval Postgraduate School Coalition and Operating Area Surveillance and Targeting System (COASTS) Field Experimentation Program and Special Operations Advanced Technology Development		1,600	
Photovoltaic Power Supply for Autonomous Sensors		2,000	
Secure Airborne Freespace Optical Comm		5,000	
Chemical/Biological Defense (ACDandP) MR4		1,400	
Radiation Countermeasure - Adult-derived Hematopoietic Progenitor Cells to Treat Acute Radiation Syndrome		1,000	
Wide-Spectrum Bio-ID		3,000	
<b>71 BALLISTIC MISSILE DEFENSE SENSORS</b>	<b>514,510</b>	<b>460,010</b>	<b>-54,500</b>
FBX-T #4		-54,500	
<b>74 BALLISTIC MISSILE DEFENSE PRODUCTS</b>	<b>506,840</b>	<b>0</b>	<b>-506,840</b>
C2BMC		-263,906	
Hercules		-50,562	
Joint Warfighter Support		-53,350	
Joint National Integration Center (JNIC)		-99,481	
Concurrent Test and Operations		-22,500	
Program Wide Support		-17,061	
<b>BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT AND</b>			
<b>74A COMMUNICATIONS (C2BMC)</b>		<b>242,789</b>	<b>242,789</b>
Program		263,906	
Program Wide Support		8,883	
Program Reduction		-30,000	
<b>74B BALLISTIC MISSILE DEFENSE HERCULES</b>		<b>52,264</b>	<b>52,264</b>
Program		50,562	
Program Wide Support		1,702	
<b>BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER</b>			
<b>74C SUPPORT</b>		<b>55,146</b>	<b>55,146</b>
Program		53,350	
Program Wide Support		1,796	

	Budget Request	Committee Recommended	Change from Request
<b>BALLISTIC MISSILE DEFENSE JOINT NATIONAL</b>			
<b>74D INTEGRATION CENTER (JNIC)</b>		<b>102,809</b>	<b>102,809</b>
Program		99,461	
Program Wide Support		3,348	
<b>BALLISTIC MISSILE DEFENSE CONCURRENT TEST</b>			
<b>74E AND OPERATIONS</b>		<b>23,257</b>	<b>23,257</b>
Program		22,500	
Program Wide Support		757	
<b>75 BALLISTIC MISSILE DEFENSE SYSTEMS CORE</b>	<b>473,077</b>	<b>476,777</b>	<b>3,700</b>
Lean Applications through Distance Learning		1,000	
Sensor Reliability		2,700	
<b>77 AEGIS BMD</b>	<b>1,031,874</b>	<b>1,056,874</b>	<b>25,000</b>
Aegis BMD Spiral Processor and Migration of Aegis BMD into OA		20,000	
Asymmetric Missile Defense		5,000	
<b>78 SPACE TRACKING &amp; SURVEILLANCE SYSTEM</b>	<b>390,585</b>	<b>323,585</b>	<b>-67,000</b>
Block 2012		-67,000	
<b>79 MULTIPLE KILL VEHICLES</b>	<b>164,975</b>	<b>99,975</b>	<b>-65,000</b>
Excessive Program Growth		-65,000	
<b>82 DEPARTMENT OF DEFENSE CORROSION PROGRAM</b>	<b>4,966</b>	<b>7,666</b>	<b>2,700</b>
DoD Technology Demonstration for Prevention of Material Degradation (TDPMD)		2,700	
<b>JOINT ELECTROMAGNETIC TECHNOLOGY (JET)</b>			
<b>88 PROGRAM</b>	<b>3,672</b>	<b>4,672</b>	<b>1,000</b>
Wireless Power Platform RF Energy Harvesting Technology		1,000	
<b>91 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>212,072</b>	<b>219,072</b>	<b>7,000</b>
Joint Warning and Reporting Network (JWARN)		2,000	
Countermeasures to Biological and Chemical Control, Rapid Response		5,000	
<b>93 JOINT ROBOTICS PROGRAM</b>	<b>6,004</b>	<b>11,004</b>	<b>5,000</b>
Joint Robotics Program		5,000	
<b>BUSINESS TRANSFORMATION AGENCY R&amp;D</b>			
<b>101 ACTIVITIES</b>	<b>140,245</b>	<b>142,245</b>	<b>2,000</b>
DIMHRS (Note: Realigned from OM,DW BTA)		52,000	
Program Adjustment		-50,000	
<b>107 JOINT COMMAND AND CONTROL PROGRAM (JC2)</b>	<b>47,031</b>	<b>50,031</b>	<b>3,000</b>
Research on Secure Telecommunication Networks (FAU)		2,000	
Operations Security (OPSEC) Training Improvement Programs		1,000	
<b>112 TRAINING TRANSFORMATION (T2)</b>	<b>72,897</b>	<b>78,197</b>	<b>5,300</b>
Agile Software Capability Interventions (ASCI)		2,000	
JWARS: A Joint Simulation for Linking Campaign Analysis to Warfighter Mission Rehearsal		3,300	

	Budget Request	Committee Recommended	Change from Request
<b>115 DEFENSE READINESS REPORTING SYSTEM (DRRS)</b>	<b>10,322</b>	<b>13,922</b>	<b>3,600</b>
DRRS National Readiness Prototype		3,600	
<b>CENTRAL TEST AND EVALUATION INVESTMENT</b>			
<b>117 DEVELOPMENT</b>	<b>130,290</b>	<b>132,290</b>	<b>2,000</b>
Joint Gulf Range Complex Upgrade		1,000	
Range Tactical Data Link and Relay		1,000	
<b>120 TECHNICAL STUDIES, SUPPORT AND ANALYSIS</b>	<b>30,339</b>	<b>31,339</b>	<b>1,000</b>
Capabilities Study for Improvised Explosive Devices Detection		1,000	
<b>128 CLASSIFIED PROGRAM USD(P)</b>	<b>0</b>	<b>90,000</b>	<b>90,000</b>
<b>133 CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM</b>	<b>80,134</b>	<b>82,834</b>	<b>2,700</b>
Vacuum Sampling Pathogen Collection and Concentration		2,700	
<b>SMALL BUSINESS INNOVATION</b>			
<b>138 RESEARCH/CHALLENGE ADMINISTRATION</b>	<b>2,073</b>	<b>6,373</b>	<b>4,300</b>
Center for Pulsed Power and Power Electronics (Note: only for Department of Defense military activities)		1,800	
Electro-Magnetic Flak Impulse Systems Technology		2,500	
<b>140 FORCE TRANSFORMATION DIRECTORATE</b>	<b>20,404</b>	<b>50,404</b>	<b>30,000</b>
Operationally Responsive Satellite (Note: \$5M for Modular Bus; \$5M for Bus Technology Development; and \$15M for completion of Phase 3 Common Bus Effort)		25,000	
Project Sheriff/Full Spectrum Effects Platform		5,000	
<b>173 INFORMATION SYSTEMS SECURITY PROGRAM</b>	<b>14,856</b>	<b>18,456</b>	<b>3,600</b>
Code Assessment & Methodology Project (CAMP) (Note: only for Department of Defense military activities)		3,600	
<b>174 INFORMATION SYSTEMS SECURITY PROGRAM</b>	<b>404,337</b>	<b>405,337</b>	<b>1,000</b>
B-Secure Multi Media DigitalTerminals		1,000	
<b>178 GLOBAL COMMAND AND CONTROL SYSTEM</b>	<b>59,681</b>	<b>63,681</b>	<b>4,000</b>
Global Command & Control System - -Joint		4,000	
<b>186 CRITICAL INFRASTRUCTURE PROTECTION (CIP)</b>	<b>12,422</b>	<b>14,422</b>	<b>2,000</b>
Cyber Threat Validation Center		2,000	
<b>207 INDUSTRIAL PREPAREDNESS</b>	<b>18,748</b>	<b>33,848</b>	<b>15,100</b>
Copper Based Casting Technology		2,000	
Advanced Microcircuit Emulation (AME) Program		3,000	
Lithium Battery Systems for Asset Tracking		1,800	
Next Generation Manufacturing Technology Initiative (Note: only for Department of Defense military activities)		1,000	
Northwest Manufacturing Initiative (Note: only for Department of Defense military activities)		2,500	
4 Ship Network Training Center (Note: only for Department of Defense military activities)		3,000	
Joint Diminishing Manufacturing Sources and Material Shortages (DMSMS) Mitigation Capabilities (JDMC)		1,800	

	Budget Request	Committee Recommended	Change from Request
<b>213 SPECIAL OPERATIONS TACTICAL SYSTEMS</b>			
<b>DEVELOPMENT</b>	<b>45,241</b>	<b>88,241</b>	<b>43,000</b>
Artic Warfare Mountaineering Boot		1,000	
Full Range Oxygen Gas System Closed-Circuit Oxygen Rebreather		2,000	
Integrated Bridge System		1,000	
Nickel Boron Metal Coating Technology for USSOCOM Weapons		2,000	
Special Operations Forces Combat Assault Rifle		4,000	
Warrior Reach Project		1,500	
Covert WPM Waveform Modules		4,400	
Development, Production and Testing of a Prototype Advanced Design of Mark V Craft		5,000	
Advanced Combat Boot-Manufacturing Enhancements using Polyurethane Direct Injection		1,000	
Gunfire Detection System for Special Operations Combatant Craft		1,500	
U. S. Special Operations Command STAR-TEC Partnership Program		3,000	
Command and Control Mission Manager (C2MM) Spiral 4		1,000	
Integrated Warfighter Information System (IWIS) II		2,100	
Next Generation Navigation Computer System		1,000	
SOCOM Imagery Dissemination System (SIDS)		1,800	
Strategic Communications Support Initiative		3,500	
Tactical Communication Systems Testbed Initiative		1,800	
Small Boat Family Integrated Combat System		2,700	
MARSOC BRITE M22 Imagery Dissemination Systems		2,700	
<b>214 SPECIAL OPERATIONS INTELLIGENCE SYSTEMS</b>			
<b>DEVELOPMENT</b>	<b>29,011</b>	<b>96,711</b>	<b>67,700</b>
Optimal Placement of Unattended Sensors		2,500	
University Multi-Spectral Laboratory and Analytical Services Center		1,500	
Tactical Miniature Software Definable Receiver		2,000	
MEMS and Nanotechnology Defense Lab		2,300	
SOF Nanotechnology Integration Team		2,400	
SOCOM Power Sources Integration Team		2,500	
SOF Long Endurance Demonstrator (SLED)		5,000	
Special Ops Classified Activities Initiative		38,000	
Payload Interface Master Module		1,000	
SOF Tactical Interface (Note: only to continue development initiated on SBIR SOCOM 01-0006)		10,500	
<b>215 SOF OPERATIONAL ENHANCEMENTS</b>	<b>99,010</b>	<b>104,510</b>	<b>5,500</b>
Miniaturized Target Tracking and Locating Devices		3,000	
STOL Herk I continuation		2,500	
<b>220 UNMANNED VEHICLES (UV)</b>	<b>1,521</b>	<b>3,521</b>	<b>2,000</b>
Unmanned Logistics Support Vehicles for SOF Initiative		2,000	
<b>999 CLASSIFIED PROGRAMS</b>	<b>3,323,792</b>	<b>3,382,992</b>	<b>59,200</b>
Classified Adjustment		59,200	
<b>JOINT FORCES COMMAND EXPERIMENTATION AND T2 - Unjustified Program</b>		<b>-30,000</b>	<b>-30,000</b>

## MISSILE DEFENSE AGENCY PROGRAM ELEMENT RESTRUCTURE

As stated in the report accompanying the House version of the fiscal year 2006 Department of Defense Appropriations Act (House Report No. 109–119), the Missile Defense Agency has been allowed considerable financial flexibility by Congress in order for the agency to respond rapidly to achieve its Initial Defensive Capability. Now that a working system operated by trained warfighters has been fielded, the Committee is concerned about continuing to allow the Missile Defense Agency this financial flexibility. Accordingly, the committee has restructured the Products program element (PE–0603889C) to allow for greater visibility and oversight of programs and directs the Missile Defense Agency to follow the format in future budget submissions.

## MISSILE DEFENSE AGENCY

## SPACE TRACKING AND SURVEILLANCE SYSTEM (STSS)

The budget requested \$390,585,000 for STSS, including \$97,000,000 for the Block 2012 space system. The Committee recommends \$323,585,000, a reduction of \$67,000,000. The Committee notes that two demonstration satellites will be launched in fiscal year 2007 and that exploitation of data from these satellites will allow the Missile Defense Agency to develop sensor requirements and a concept of operations that will drive the Block 2012 space system. As a result, the Committee believes it is premature to award the Block 2012 space system contract and directs the Missile Defense Agency to pursue sensor technology development and risk reduction with the remaining Block 2012 funds.

## MISSILE DEFENSE AGENCY COST REPORTING

The Committee is concerned that funds appropriated for Blocks 2004 and 2006 are being moved between various elements and programs. While it was important for the Missile Defense Agency (MDA) to have a flexibility to optimize the use of funds to field an initial capability, it is equally important to have an audit trail for appropriated funds. During Block 2004, MDA requested funds to develop, deploy, verify, and characterize a Block 2004 fielded configuration of the Ballistic Missile Defense System. However, the Committee understands that MDA delayed some of these activities until Block 2006 to cover Block 2004 contractor cost issues. The Committee is concerned that MDA is requesting funds during Block 2006 for the delayed activities although funding was already provided for them during Block 2004. The Committee directs the Director, MDA to submit a report to the congressional defense committees no later than sixty days after the date of enactment of this Act that details the cost of all work that traveled from Block 2004 (as defined by the Block 2004 Fielding Goals submitted to Congress in February 2003) to Block 2006 and that explains how MDA used the funds originally appropriated for these activities. In addition, the report should identify the elements that lost funds appropriated for their use to other programs.

Additionally, it has also come to the Committee's attention that the Block 2006 fielded configuration baseline delivered to the Con-

gress with the fiscal year 2006 budget is also changing, which makes it difficult to account for the use of appropriated funds. To better understand the Block 2006 fielded configuration baseline, the Committee directs the Director, MDA to submit a report to the congressional defense committees no later than sixty days after the date of enactment of this Act that clarifies the cost of the Block 2006 fielded configuration as laid out in MDA's BMDS Block Statement of Goals and Baselines dated March 14, 2005 and ties the cost to specific quantities of assets being fielded and to specific activities for which the funds are requested. The report should (1) detail the cost of research, development, test, and evaluation, fielding, and operation and sustainment for each program that contributes to the Block 2006 fielded configuration; (2) considering these elements of cost, detail the cumulative cost of the Block 2006 fielded configuration; and (3) for fiscal years 2006 and 2007, identify the assets and major activities that the funds support. Further, the Director, MDA is directed to use the March 14, 2005 quantity, performance, and cost baseline as its fielded configuration baseline in the December 31, 2006 Selected Acquisition Report and to report all variances against this baseline.

The Committee expects MDA to follow this same format for all future Blocks of the Ballistic Missile Defense System.

#### AIRBORNE LASER (ABL)

The Committee is encouraged by the recent technical progress that the Airborne Laser (ABL) program has made over the last two years with the accomplishment of the firing of the high energy laser and the flight testing of the associated beam control/fire control system. The Committee also notes that these technical challenges were accomplished while the program stayed within the government determined schedule and budget.

As the acknowledged Primary Boost Phase Defense, the Committee is concerned by the recent decision of the Missile Defense Agency (MDA) to slip the planning for the development of an operational ABL by two years later than proposed in the fiscal year 2006 budget submittal. The Committee believes that if the ABL succeeds in the next two years of testing and accomplishes its main test objectives leading towards a lethal shoot down demonstration in late 2008, MDA should move the program into development of an operational ABL configuration at the earliest date.

Therefore, the Committee encourages MDA to re-evaluate funding in the Future Year Defense Plan to ensure that funding levels for ABL are consistent with its status as the Primary Boost Phase Defense. Further, the Committee recommends MDA develop a plan that would allow for the development of an advanced ABL configuration in the shortest time after a successful lethal shoot down demonstration. This plan should be delivered to the interested defense related committees 90 days after the enactment of this Act.

## MISSILE DEFENSE AGENCY

COMMAND AND CONTROL, BATTLE MANAGEMENT AND  
COMMUNICATIONS (C2BMC) PROGRAM

The Committee recommends \$239,906,000 for the Command and Control, Battle Management and Communications (C2BMC) program, which is a \$26,524,000 more than fiscal year 2006 and \$30,000,000 less than the President's request. In fiscal year 2006, funding for the C2BMC program was reduced by \$30,000,000; yet during the year of execution, the Missile Defense Agency increased funding for C2BMC by over \$50,000,000 by using funds in other program elements to restore the congressional reduction. The Committee is concerned about the use of funds from various other program elements being used to offset congressional reductions. Accordingly, the Committee reinstates the fiscal year 2006 congressional reduction and directs the Missile Defense Agency to fully comply with congressional intent. Additionally, the Committee directs the Missile Defense Agency to follow the reprogramming guidance specified in this report and in the report accompanying the House version of the fiscal year 2006 Department of Defense Appropriations Act (House Report No. 109-119) as it pertains to guidelines allowing agencies to reprogram funds from one program element or appropriation to another.

## AEGIS BALLISTIC MISSILE DEFENSE SYSTEM

The Committee commends the Missile Defense Agency (MDA) for showing progress and promise for continued success in its Aegis Ballistic Missile Defense System. The Committee strongly urges that MDA refrain from transferring funds out of the Aegis program to other missile defense programs during the year of execution and in the Future Years Defense Program (FYDP) and expects MDA shall fully fund and execute the Aegis program as Congress intends.

## CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM

The Committee commends the Department on the continued execution of the "Chem-Bio Defense Initiatives Fund" and recommends continuing the program within the Department's Chemical and Biological Defense Program. The Committee's recommendation provides an increase of \$25,000,000 for this fund. The Secretary of Defense is directed to allocate these funds among the programs that yield the greatest gain in our chem-bio defensive posture. The Committee further directs that funds cannot be obligated for the Chem-Bio Initiative Fund until 15 days after a report, including a description of projects to be funded, is provided to the congressional defense committees.

## PROGRAM RECOMMENDED

The total program recommended in the bill will provide the following in fiscal year 2007:

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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RESEARCH, DEVELOPMENT, TEST & EVAL, DW			
BASIC RESEARCH			
DTRA UNIVERSITY STRATEGIC PARTNERSHIP BASIC RESEARCH P	5,000	12,300	+7,300
DEFENSE RESEARCH SCIENCES.....	150,690	173,190	+22,500
GOVERNMENT/INDUSTRY COSPONSORSHIP OF UNIVERSITY RESEAR	---	2,700	+2,700
DEFENSE EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE	9,532	9,532	---
NATIONAL DEFENSE EDUCATION PROGRAM.....	19,532	19,532	---
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	99,182	117,782	+18,600
	-----		
TOTAL, BASIC RESEARCH.....	283,936	335,036	+51,100
APPLIED RESEARCH			
INSENSITIVE MUNITIONS--EXPLORATORY DEVELOPMENT.....	10,447	10,447	---
MEDICAL FREE ELECTRON LASER.....	10,255	10,255	---
HISTORICALLY BLACK COLLEGES & UNIV (HBCU) SCIENCE.....	14,423	17,923	+3,500
LINCOLN LABORATORY RESEARCH PROGRAM.....	28,975	28,975	---
INFORMATION AND COMMUNICATIONS TECHNOLOGY.....	242,852	242,852	---
COGNITIVE COMPUTING SYSTEMS.....	220,085	222,085	+2,000
BIOLOGICAL WARFARE DEFENSE.....	112,242	112,242	---
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	280,422	284,822	+4,400
TACTICAL TECHNOLOGY.....	383,680	388,280	+4,600
MATERIALS AND BIOLOGICAL TECHNOLOGY.....	297,277	297,277	---
WMD DEFEAT TECHNOLOGY.....	213,152	215,552	+2,400
ELECTRONICS TECHNOLOGY.....	246,978	248,978	+2,000
WMD DEFENSE TECHNOLOGIES.....	105,021	111,021	+6,000
SPECIAL OPERATIONS TECHNOLOGY DEVELOPMENT.....	12,698	22,698	+10,000
SOF MEDICAL TECHNOLOGY DEVELOPMENT.....	2,293	2,293	---
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TOTAL, APPLIED RESEARCH.....	2,180,800	2,215,700	+34,900

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
ADVANCED TECHNOLOGY DEVELOPMENT			
SO/LIC ADVANCED DEVELOPMENT.....	30,575	41,575	+11,000
COMBATING TERRORISM TECHNOLOGY SUPPORT.....	65,768	121,018	+55,250
COUNTERPROLIFERATION INITIATIVES--PROLIF PREV & DEFEAT			
BALLISTIC MISSILE DEFENSE TECHNOLOGY.....	104,582	114,682	+10,100
JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	206,676	189,076	-17,600
JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT.....	16,862	16,862	---
ADVANCED AEROSPACE SYSTEMS.....	115,829	115,829	---
SPACE PROGRAMS AND TECHNOLOGY.....	254,913	254,913	---
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM - ADVANCED DEV			
JOINT ELECTRONIC ADVANCED TECHNOLOGY.....	207,114	238,714	+31,600
JOINT ELECTRONIC ADVANCED TECHNOLOGY.....	9,400	11,400	+2,000
JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	35,553	38,053	+2,500
JOINT ROBOTICS PROGRAM/AUTONOMOUS SYSTEMS.....	7,700	7,700	---
GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS.....	23,437	63,737	+40,300
DISTRIBUTION PROCESS OWNER TECH. DEV. & IMPLEMENTATION			
STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	15,215	15,215	---
STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM.....	67,149	68,149	+1,000
MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT....	---	46,600	+46,600
JOINT WARFIGHTING PROGRAM.....	10,641	10,641	---
ADVANCED ELECTRONICS TECHNOLOGIES.....	248,627	250,627	+2,000
ADVANCED CONCEPT TECHNOLOGY DEMONSTRATIONS.....	158,334	162,834	+4,500
HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM.....	175,313	189,313	+14,000
COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS.....	232,489	232,489	---
LAND WARFARE TECHNOLOGY.....	48,975	48,975	---
CLASSIFIED DARPA PROGRAMS.....	151,598	151,598	---
NETWORK-CENTRIC WARFARE TECHNOLOGY.....	174,276	174,276	---
SENSOR TECHNOLOGY.....	205,519	205,519	---
GUIDANCE TECHNOLOGY.....	157,367	157,367	---
DISTRIBUTED LEARNING ADVANCED TECHNOLOGY DEVELOPMENT..	14,918	18,518	+3,600
SOFTWARE ENGINEERING INSTITUTE.....	26,594	26,594	---
QUICK REACTION SPECIAL PROJECTS.....	107,782	107,782	---
JOINT EXPERIMENTATION.....	115,684	115,684	---
JOINT WARGAMING SIMULATION MANAGEMENT OFFICE.....	36,179	36,179	---
TEST & EVALUATION SCIENCE & TECHNOLOGY.....	39,939	39,939	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
TECHNOLOGY LINK.....	6,822	9,622	+2,800
SPECIAL OPERATIONS ADVANCED TECHNOLOGY DEVELOPMENT....	80,402	152,352	+71,950
TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT.....	3,152,232	3,433,832	+281,600
DEMONSTRATION & VALIDATION			
NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT R	33,890	36,890	+3,000
RETRACT LARCH.....	22,383	22,383	---
JOINT ROBOTICS PROGRAM.....	12,210	22,010	+9,800
ADVANCED SENSOR APPLICATIONS PROGRAM.....	18,820	20,320	+1,500
ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	28,841	35,841	+7,000
BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT....	1,038,310	1,008,310	-30,000
BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT...	2,876,972	2,758,072	-118,900
BALLISTIC MISSILE DEFENSE BOOST DEFENSE SEGMENT.....	631,616	631,616	---
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	73,111	87,111	+14,000
BALLISTIC MISSILE DEFENSE SENSORS.....	514,510	460,010	-54,500
BALLISTIC MISSILE DEFENSE SYSTEM INTERCEPTOR.....	405,508	405,508	---
BALLISTIC MISSILE DEFENSE TEST & TARGETS.....	591,911	591,911	---
BALLISTIC MISSILE DEFENSE PRODUCTS.....	506,840	---	-506,840
BALLISTIC MISSILE DEFENSE C2BMC.....	---	242,789	+242,789
BALLISTIC MISSILE DEFENSE HERCULES.....	---	52,264	+52,264
BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT....	---	55,146	+55,146
BALLISTIC MISSILE DEFENSE JOINT NATIONAL INTERGRATION.	---	102,809	+102,809
BALLISTIC MISSILE DEFENSE CONCURRENT TEST AND OPERATIO	---	23,257	+23,257
BALLISTIC MISSILE DEFENSE SYSTEMS CORE.....	473,077	476,777	+3,700
SPECIAL PROGRAMS - MDA.....	374,532	374,532	---
AEGIS BMD.....	1,031,874	1,056,874	+25,000
SPACE TRACKING & SURVEILLANCE SYSTEM.....	390,585	323,585	-67,000
MULTIPLE KILL VEHICLES.....	164,975	99,975	-65,000
HUMANITARIAN DEMINING.....	14,489	14,489	---
COALITION WARFARE.....	5,878	5,878	---
DEPARTMENT OF DEFENSE CORROSION PROGRAM.....	4,966	7,666	+2,700
JOINT CAPABILITY TECHNOLOGY DEMONSTRATIONS.....	3,047	3,047	---
JOINT SYSTEMS INTEGRATION COMMAND (JSIC).....	20,755	20,755	---
JOINT FIRES INTEGRATION & INTEROPERABILITY TEAM.....	16,782	16,782	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
REDUCTION OF TOTAL OWNERSHIP COST.....	25,289	25,289	---
JOINT ELECTROMAGNETIC TECHNOLOGY (JET) PROGRAM.....	3,672	4,672	+1,000
TOTAL, DEMONSTRATION & VALIDATION.....	9,284,843	8,986,568	-298,275
ENGINEERING & MANUFACTURING DEVELOPMENT			
DEFENSE ACQUISITION CHALLENGE PROGRAM (DACP).....	29,500	29,500	---
NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT R	9,277	9,277	---
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	212,072	219,072	+7,000
JOINT ROBOTICS PROGRAM.....	6,004	11,004	+5,000
ADVANCED IT SERVICES JOINT PROGRAM OFFICE (AITS-JPO)..	9,392	9,392	---
JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS)	8,177	8,177	---
INFORMATION TECHNOLOGY DEVELOPMENT.....	11,005	11,005	---
BUSINESS TRANSFORMATION AGENCY R&D ACTIVITIES.....	140,245	142,245	+2,000
TRUSTED FOUNDRY.....	42,522	42,522	---
DEFENSE ACQUISITION EXECUTIVE (DAE) PILOT PROGRAM.....	6,015	6,015	---
DEFENSE MESSAGE SYSTEM.....	11,202	11,202	---
GLOBAL COMBAT SUPPORT SYSTEM.....	18,556	18,556	---
JOINT COMMAND AND CONTROL PROGRAM (JC2).....	47,031	50,031	+3,000
TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT.....	550,998	567,998	+17,000
RDT&E MANAGEMENT SUPPORT			
TRAINING TRANSFORMATION (T2).....	72,897	78,197	+5,300
DEFENSE READINESS REPORTING SYSTEM (DRRS).....	10,322	13,922	+3,600
JOINT SYSTEMS ARCHITECTURE DEVELOPMENT.....	9,390	9,390	---
CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT....	130,290	132,290	+2,000
THERMAL VICAR.....	7,492	7,492	---
JOINT MISSION ENVIRONMENT TEST CAPABILITY (JMETC).....	10,600	10,600	---
TECHNICAL STUDIES, SUPPORT AND ANALYSIS.....	30,339	31,339	+1,000
USD(A&T)--CRITICAL TECHNOLOGY SUPPORT.....	2,029	2,029	---
FOREIGN MATERIAL ACQUISITION AND EXPLOITATION.....	38,253	38,253	---
JOINT THEATER AIR AND MISSILE DEFENSE ORGANIZATION....	52,486	52,486	---
CLASSIFIED PROGRAM USD(P).....	---	90,000	+90,000
FOREIGN COMPARATIVE TESTING.....	31,995	31,995	---
NUCLEAR MATTERS - PHYSICAL SECURITY.....	4,285	4,285	---
SUPPORT TO NETWORKS AND INFORMATION INTEGRATION.....	10,990	10,990	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
GENERAL SUPPORT TO USD (INTELLIGENCE).....	5,637	5,637	---
CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM.....	80,134	82,834	+2,700
SMALL BUSINESS INNOVATION RESEARCH/CHALLENGE ADMINISTR	2,073	6,373	+4,300
DEFENSE TECHNOLOGY ANALYSIS.....	5,577	5,577	---
FORCE TRANSFORMATION DIRECTORATE.....	20,404	50,404	+30,000
DEFENSE TECHNICAL INFORMATION CENTER (DTIC).....	51,929	51,929	---
R&D IN SUPPORT OF DOD ENLISTMENT, TESTING & EVALUATION	9,348	9,348	---
DEVELOPMENT TEST AND EVALUATION.....	9,203	9,203	---
MANAGEMENT HEADQUARTERS (RESEARCH & DEVELOPMENT).....	50,951	50,951	---
INFORMATION TECHNOLOGY RAPID ACQUISITION.....	5,090	5,090	---
INTELLIGENCE SUPPORT TO INFORMATION OPERATIONS (IO)...	14,128	14,128	---
PENTAGON RESERVATION.....	15,586	15,586	---
MANAGEMENT HEADQUARTERS - MDA.....	87,389	87,389	---
IT SOFTWARE DEV INITIATIVES.....	1,412	1,412	---
TOTAL, RDT&E MANAGEMENT SUPPORT.....	770,229	909,129	+138,900
OPERATIONAL SYSTEMS DEVELOPMENT			
DEFENSE INFORMATION SYSTEM FOR SECURITY (DISS).....	35,439	35,439	---
PARTNERSHIP FOR PEACE (PFP) INFORMATION MANAGEMENT SYS	1,521	1,521	---
CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS D	7,035	7,035	---
JOINT INTEGRATION AND INTEROPERABILITY.....	66,906	66,906	---
JOINT STAFF ANALYTICAL SUPPORT.....	7,686	7,686	---
ISLAND SUN.....	1,662	1,662	---
C4I INTEROPERABILITY.....	84,313	84,313	---
NATIONAL MILITARY COMMAND SYSTEM-WIDE SUPPORT.....	721	721	---
DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGRATIO	34,007	34,007	---
LONG HAUL COMMUNICATIONS (DCS).....	1,523	1,523	---
MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK....	7,691	7,691	---
PUBLIC KEY INFRASTRUCTURE (PKI).....	14,240	14,240	---
KEY MANAGEMENT INFRASTRUCTURE (KMI).....	38,257	38,257	---
INFORMATION SYSTEMS SECURITY PROGRAM.....	14,856	18,456	+3,600
INFORMATION SYSTEMS SECURITY PROGRAM.....	404,337	405,337	+1,000
DISA MISSION SUPPORT OPERATIONS.....	1,224	1,224	---
C4I FOR THE WARRIOR.....	3,556	3,556	---

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
C4I FOR THE WARRIOR.....	6,551	6,551	---
GLOBAL COMMAND AND CONTROL SYSTEM.....	59,681	63,681	+4,000
JOINT SPECTRUM CENTER.....	12,448	12,448	---
NET-CENTRIC ENTERPRISE SERVICES (NCES).....	28,630	28,630	---
TELEPORT PROGRAM.....	14,424	14,424	---
CRITICAL INFRASTRUCTURE PROTECTION (CIP).....	12,422	14,422	+2,000
DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES.....	20,791	20,791	---
NET CENTRICITY.....	8,746	8,746	---
DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS.....	7,451	7,451	---
INDUSTRIAL PREPAREDNESS.....	18,748	33,848	+15,100
LOGISTICS SUPPORT ACTIVITIES.....	2,912	2,912	---
MANAGEMENT HEADQUARTERS (JCS).....	3,090	3,090	---
NATO JOINT STARS.....	41,670	41,670	---
SPECIAL OPERATIONS AVIATION SYSTEMS ADVANCED DEV.....	83,704	83,704	---
SPECIAL OPERATIONS TACTICAL SYSTEMS DEVELOPMENT.....	45,241	88,241	+43,000
SPECIAL OPERATIONS INTELLIGENCE SYSTEMS DEVELOPMENT...	29,011	96,711	+67,700
SOF OPERATIONAL ENHANCEMENTS.....	99,010	104,510	+5,500
SPECIAL OPERATIONS AIRCRAFT DEFENSIVE SYSTEMS.....	7,850	7,850	---
OPS ADVANCED SEAL DELIVERY SYSTEM (ASDS) DEVELOPMENT..	32,452	32,452	---
MISSION TRAINING AND PREPARATION SYSTEMS (MTPS).....	1,782	1,782	---
UNMANNED VEHICLES (UV).....	1,521	3,521	+2,000
TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT.....	1,263,109	1,407,009	+143,900
CLASSIFIED PROGRAMS.....	3,323,792	3,382,992	+59,200
JOINT FORCES COMMAND.....	---	-30,000	-30,000
TOTAL, RESEARCH, DEVELOPMENT, TEST & EVAL, DW.....	20,809,939	21,208,264	+398,325

## OPERATIONAL TEST AND EVALUATION, DEFENSE

Fiscal year 2006 appropriation .....	\$166,774,000
Fiscal year 2007 budget request .....	181,520,000
Committee recommendation .....	181,520,000
Change from budget request .....	.....

This appropriation funds the Operational Test and Evaluation activities of the Department of Defense.

## COMMITTEE RECOMMENDATION

The Committee recommends an appropriation of \$181,520,000 for Operational Test and Evaluation, Defense. The following report and project level tables provide a summary of the Committee's recommendation.

## PROGRAM RECOMMENDED

The total program recommended in the bill will provide the following in fiscal year 2007.

(DOLLARS IN THOUSANDS)

	BUDGET REQUEST	COMMITTEE RECOMMENDED	CHANGE FROM REQUEST
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OPERATIONAL TEST & EVAL, DEFENSE			
RDT&E MANAGEMENT SUPPORT			
OPERATIONAL TEST AND EVALUATION.....	50,161	50,161	---
LIVE FIRE TESTING.....	11,245	11,245	---
OPERATIONAL TEST ACTIVITIES AND ANALYSES.....	120,114	120,114	---
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TOTAL, RDT&E MANAGEMENT SUPPORT.....	181,520	181,520	---
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TOTAL, OPERATIONAL TEST & EVAL, DEFENSE.....	181,520	181,520	---