

## FY2003 DEFENSE AUTHORIZATION BILL MEMBER-ADDS NOT REQUESTED BY THE DEPARTMENT OF DEFENSE

### SEAPOWER PB SASC Total

#### NAVY AIRCRAFT PROCUREMENT

MH-60R Airborne low frequency sonar (ALFS)  
Nonrecurring costs/ dipping sonar AN/ANQS 5.0  
Allegheny, WV Ballistics Lab Facilities Restoration 20.0

#### NAVY SHIPBUILDING AND CONVERSION

Accelerate CVNX-1 to Original Schedule 229.0

#### NAVY OTHER PROCUREMENT

Stainless Steel Sanitary Spaces 6.0  
Ship Integrated Condition Assessment System (ICAS) 11.0  
Joint Engineering Data Management Information and  
Control System (JEDUICS) 3.0  
SPQ-9B Solid State Transmitter 10.0  
Aegis Support Equipment  
- Food Service Technology 2.0  
- Integrated Bridge System 19.8  
-Submarine Training Device Maps Deployable 17.3, 5.0, 22.3

#### AIR FORCE AIRCRAFT PROCUREMENT

##### C-17A

- Aircraft Engine Trainer (ACT) 9.2  
- Software Enhancements for Existing Trainers 2.1

#### NAVY RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Ship Laser Welding and Cutting Demonstration 6.0  
Shipboard System Component Development  
- Electric Start for Gas Turbine Engines 5.0  
- Cots-Style Airbag Technology for  
Surface Torpedo Launch 5.0  
Advanced Submarine System Development  
- Electro mechanical Actuator Development 1.9  
- Electric Motor Brush Technology 4.0  
Facilities Improvement  
- Continue Ongoing Demonstration of Renewable  
Energy Use 2.5  
SC-21 Total Ship System Engineering  
- Power Node Control Center (PNCC) 3.0  
Surface Combatant Combat System Engineering  
- DDG Optimized Manning Initiative 5.0  
Standard Missile Improvements

-Advanced Optical Correction	5.0
Submarine Tactical Warfare System	
- Upgrade Submarine Combat Control Software to Commercial Architecture	14.0, 20.0, 34.0
Lightweight Torpedo Development	
- Align Lightweight and Heavyweight Baselines for Commonality	7.8, 5.5, 13.3
Battle group Passive Horizon Extension	
- Cooperative Outboard Logistics Update (COBLU)	
Digital Upgrade	5.0
Ship Self Defense	
- Radar Tiles for Reduced Surface Ship Signatures	1.0
Electronic Warfare (EW) Readiness Support	
- Virtual Environment for Warfighter (VIEW)	6.2, 2.0, 8.2
Joint C4ISR Battle Center (JBC)	
- Strategic Interoperability Initiative	3.3, 5.0, 8.3
Modeling and Simulation Support	
- Modeling and Simulation Initiatives for Interoperability	7.8, 4.7, 12.5

#### EMERGING THREATS AND CAPABILITIES PB SASC Total

#### DEFENSE WIDE PROCUREMENT

MK VIII MOD 1 Seal Delivery Vehicle (SDV)	8.5, 4.5, 13.0
Communication Equip and Electronics	
- Multi-Band Multimission Radios	5.0
M48 Masks	0.5
Decontamination	
- M12 Decon System Upgrades made in Arkansas	6.0
Collective Protection	
- Chem-Bio Protective Shelters	7.0

#### ARMY RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Defense Research Sciences	
- Animal Modeling Genetics Research	1.0
- Desert Terrain Analysis	4.0
- Center for Optical Research	1.5
University and Industry Research Center	
- Armor Materials Modeling and Simulation	2.5
- Ferroelectric Materials Nanofabrication	1.5
Materials Technology	
- Composite Materials Technology for FCS	3.0
- Advanced Materials Processing	4.0
- Electronic Components Reliability	2.5
- Multifunctional Composite Materials	3.0
Missile Technology	

- Advanced Composite Chassis	2.0
- Short Range Air Defense Radar	3.0
Advanced Concepts and Simulation	
- Interactive Training Technology Transition	2.5
Combat Vehicle and Automotive Technology	
- Advanced Coatings Research	1.5
- Fastening and Joining Research	1.8
- 21st Century Truck	17.0
- Combat Truck Initiative (COMBATT)	
Hybrid Vehicle	5.0
- Advanced Manufacturing Technology Center	5.0
Weapons and Munitions Technology	
- Tungsten Kinetic Energy Projectile	1.0
- Warhead Technology for FCS	2.4
- Countermobility Systems	3.0
Electronics and Electronic Devices	
- Portable Hybrid Electric Power Systems	2.0
Countermine Systems	
- Polymer-based Landmine Detection	2.0
- Acoustic Landmine Detection Systems	3.0
- Airborne Landmine Detection Systems	7.5
Environmental Quality Technology	
- Environmental Restoration Technology	4.0
Military Engineering Technology	
- Geo-sciences Research	2.0
- Stationary Fuel Cell Initiative	10.0
Warfighter Technology	
- Heavy Precision Airdrop Technology	2.5
Warfighter Advanced Technology	
- Personal Navigation of the Future Warfighter	5.0
- Warfighter Position, Location, and	
Tracking Sensor	3.0
Aviation Advanced Technology	
- UAV datalinks	3.0
Combat Vehicle and Automotive Advanced Technology	
- Multi-fuel APU Program	3.0
- Improved Materials and Powertrain Arch for 21st	
Century Truck (IMPACT)	3.0
- Mobile Parts Hospital	8.0
- Rapid Prototyping	2.0
- Networked Standardized Exchange of	
Product Data	5.0
Command, Control, Communications Advanced	
- Hybrid Electric Vehicles	7.5
- Unmanned Ground Vehicles	5.0
- Active Protection System	7.5
Manpower, Personnel and Training Advanced	

- Aircrew Coordination Training	2.0
Missile and Rocket Advanced Technology	
- Loiter Attack Munition	15.0
Night Vision Advanced Technology	
- Sensors for Micro Air Vehicles	5.0
- High Speed Target Recognition of Infrared Sensor Systems	2.8
Military Engineering Advanced Technology	
- Proton Exchange Membrane Fuel Cell	5.0
Environmental Quality Technology Dem/Val	
- Army Technology Environmental Enhancement	1.0
Threat Simulator Development	
- Multi-mode Top Attack Threat Simulators	3.0
Concepts Experimentation Program	
- Battle Lab Cooperative Research and Development	3.0
Information Systems Security Program	
- Integrated Information Security Research	3.5

#### NAVY RESEARCH, DEVELOPMENT, TEST AND EVALUATION

##### Defense Research Sciences

- Robotic Countermeasure Technologies	3.0
- Marine Mammal Detection and Mitigation	2.0
- Corrosion Research and Development	5.0

##### Force Protection Applied Research

- Data Fusion Processor	3.0
- Corrosion Maintenance and Airframe	

##### Readiness Technologies

- Information Assurance Research	2.5
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##### Advanced Power Systems

- Power Semiconductors, Superconductors, and Control Systems	2.0
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##### Urban Operation Environment Research

- Demonstration and Validation of Env. Remediation	
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##### Capabilities for Use in Non-Lethal Weapons

##### Materials, Electronics and Computer Technology

- Wide Bandgap Silicon Carbide Semi Conductor Research Initiative	2.5
- Nanoscience and Technology	3.0
- Silicon Carbide Research and Technology	2.5
- High Brightness Electron Sources	3.0

##### Warfighter Sustainment Applied Research

- Ceramic and Carbon-Based Materials	3.0
- Integrated Bio-Environmental Hazards	

##### Research Program

RF Systems Applied Research	2.0
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- Low Acoustic Signature Motors and Propulsors	3.5
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##### Force Protection Advanced Technology

- Ship Service Fuel Cell	2.0
Warfighter Sustainment Advanced Technology	
- Corrosion-resistant Glass Technologies	2.5
RF Systems Advanced Technology	
- Multi-Function Antenna Systems	2.0
Environmental Quality and Logistics Advanced	
- National Surface Treatment Center	4.0
Mine and Expeditionary Warfare Advanced Technology	
- Mine Counter Measures	3.0
Navy Energy Program	
- Navy Fuel Cell Technology Program	5.0
Information Technology and Development	
- Human Resource Enterprise Strategy	7.0

#### Management, Technical and International Support

- Combating Terrorism Wargaming and Research	2.0
Maritime Technology (Maritech)	
- Maritime Technology Research	4.0

#### AIR FORCE RESEARCH, DEVELOPMENT, TEST AND EVALUATION

##### Materials

- Hybrid Coatings for Aircraft Systems	3.0
- Composite Materials for UAVs	2.5
- Metals Affordability Initiative	3.0
- Weathering and Corrosion on Aircraft Surfaces and Parts	1.0
- Nano-Structured Protective Coatings	2.0
- Free Electron Laser Materials Technology	1.0
- Closed Cell Foam Material Technology	1.0
Aerospace Propulsion	
- Lithium Ion Batteries	1.0
Aerospace Sensors	
- Wireless ISR Technology	3.0
Space Technology	
- Microsatellite Cluster Technology	3.0
- Lightweight Structures for Space	1.0
- Integrated Control for Autonomous Space Systems	2.0
Command, Control and Communications	
- Information Protection and Authentication	3.0
- Cyber Security Research and Development	5.0
Aerospace Technology Integration	
- Advanced Aluminum Aerostructures Initiatives	4.0
Aerospace Materials Manufacturing and Research	
- Manufacturing of Specialty Aerospace Materials	3.0
- High Power, Turnable UV Laser Processing Tool for The Fabrication of Micro-Engineered Components	3.0
- Wear-resistant, Nanostructured Materials that can	

protect mechanical parts and extend their operational lives	2.0
- Aircraft Coating Systems	3.0
- Low-Cost Materials for Use on Unmanned Aircraft	2.5
- Fire-Retardant Polymer Materials	1.0
 Crew Systems and Personnel Protection Technology	
- Logistics Technologies	1.5
Flight Vehicle Technology Integration	
- Total Atmosphere Liquefaction System	2.5
Maglev Upgrade Program	2.5
Joint Directed Energy Combat Operations and Employment	
Information Systems Security	
- Cyber Security Research	7.5
Industrial Preparedness	
- Bipolar Wafer-cell NIMH Aircraft Battery	2.0
Defense Research Services	
- University Optoelectronic Centers	3.0
- Nanotechnology for Advanced Biomedical Sensors and Devices	4.0
- Molecular Electronics	2.0
- Advanced Photonic Composite Research	2.5
Medical Free Electron Laser	
- Medical Free Electron Laser Program	8.0
Chemical and Biological Defense	
- Nanosystem Detection and Deactivation of Biowarfare Agents	2.0
- Nanoemulsions for Decontamination	5.0
- Detection of Chemical, Biological and Pollutant Agents In Water	5.0
- Nanoparticle Responses to Chemical and Biological Threats	5.0
- Nanotechnology Biological Agent Sensor	2.5
- Bioinformatics	3.0
- Materials Fabrication for Biosensors	1.0
- Chemical Agent Exposure	1.2
WMD Defeat Technology	
- Discrete Particle Method	3.0
- Deep Digger	3.0
University Research Initiatives	
- Advanced Remote Sensing Systems for Environment	5.0
- Military Transformation Optimization of Military Personnel Management	2.0
Combating Terrorism Technology Support	
- Blast Mitigation Testing	5.0
Chemical and Biological Defense Program	
- Electrostatic Decontamination system	5.0

- Weaponization of Nanoparticles for the Neutralization of Facility Threats	3.0
-Biological Process Development Facility	7.0
- Argoterrorism Prediction and Risk Assessment	5.0
- Chem-bio Emergency Response Technologies	2.3
Generic Logistics Research and Development Technology Demonstration	
- Vehicle Fuel Cell Program	10.0
Strategic Environmental Research Program	
- UXO Remediation Technology Development	3.0
Quick Reaction Special Projects	
- Technology Transition Initiative	25.0
Joint Wargaming Simulation Management Office	
- Information Technology for WMD Medical Response	4.0
Environmental Security Technical Certification Program	
- UXO Remediation	5.0
Information Security Scholarships	10.0
Information Systems Protection Research	4.0
Industrial Preparedness	
- Laser Additive Manufacturing Program	5.0
Special Operations Technology and Tactical Systems Development	
- Advanced Technologies for Special Ops	5.0
- Joint Threat Warning System	1.8
Special Operations Intelligence Systems Development	
- Embedded Integrated Broadcast Service (IBS) Receivers	2.2

#### DEFENSE OPERATIONAL, TEST AND EVALUATION

Test and Evaluation Science and Technology	5.0
Central Test and Evaluation Investment Development	
- Big Crow Test Support Activities	5.0
- Digital Video Laboratory	3.0
Live Fire Testing	
- Live Fire Test and Training Program	5.0
Fire Fighting Training System	1.5

#### STRATEGIC PB SASC Total

#### AIR FORCE AIRCRAFT PROCUREMENT

B-2A UHF SatCom Airborne Integrated Terminals	25.2
B-52 ALQ-172 Electronic Countermeasures Improvement (ECMI)	20.0

#### ARMY RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

- Low Cost Interceptor (LCI) Technology	10.0
- Supercluster Distribution Memory Technology (SDMI)	5.0

Security and Intelligence Activities	
- Language Software and Training	5.2
AEROSTAT Design and Manufacturing	29.1, 4.0, 33.1
Family of Systems Simulation (FOSSIM)	2.0

#### AIR FORCE RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Advanced Spacecraft Technology	
- Thin Film Amorphous Silicon Arrays	10.0
B-2 Advanced Technology Bomber	
- LO Improvements	10.0
AFTENCAP	
-Global Positioning System (GPS) Jammer	3.0

#### DEFENSE-WIDE RESEARCH, DEVELOPMENT, TESTING AND EVALUATION

Ballistic Missile Technology	
- Wafer-scale Planarization	5.0
- Bottom Anti-Reflective Coatings for Circuit Boards	5.0
- Nanophotonic Lab Facility	3.7
- Wide Bandgap Semiconductors	10.0
Ballistic Missile Defense Midcourse Defense Segment	
- NTW/ Sea-based Midcourse X-band High Power Discriminator Radar on Aegis Ship	40.0
- Small kill Vehicle Technology Development	10.0
Defense National Imagery and Mapping Program	
- Geospatial Data Integration Technologies	1.0
- Future Level Data Base	4.1
- Broadcast-Request Imagery Technology Experiment (BRITE)	4.0

#### STRATEGIC OPERATIONS AND MAINTENANCE

Navy Operations and Maintenance Security Programs	
- Critical Infrastructure Protection	6.0

#### DEFENSE-WIDE OPERATIONS AND MAINTENANCE

Commercial Imagery	30.0
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#### DEFENSE-WIDE RESEARCH, DEVELOPMENT, TESTING AND EVALUATION

Intelligent Spatial Technologies for Smart Maps	1.0
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#### DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS

Operations of Facilities in Nevada (NCCT)	949.9, 40.0, 989.5
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#### AIRLAND PB SASC Total

#### ARMY AIRCRAFT PROCUREMENT

UH-60 Blackhawk	153.4, 96.3, 249.7
Fort Knox, KY Range Instrumentation	1.4

#### NAVY AIRCRAFT PROCUREMENT

Common Remote Stabilized Sensor System 3.0

#### ARMY OTHER PROCUREMENT

Combat Medical Support

- Rapid Intravenous Infusion Pumps 5.7

#### AIR FORCE AIRCRAFT PROCUREMENT

EC-130J Commando Solo A/C 110.0

F-16 Engines (F-100-PW-229 engines) for block 42

F-16 aircraft 60.0

C-130 Eight Bladed Propellor 10.0

Air National Guard Litening II Targeting Pod Upgrades 20.0

Upgrade Theater Airborne Reconnaissance System  
(TARS) Pods 11.6

#### ARMY RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Advanced Tank Armament System

- Common remote Stabilized Sensor System 3.0

Joint Simulation System (JSIMS) Core Program

Automatic Test Equipment Development

- Digital Source Collector - Health and Monitoring  
System (DCS-HUMS) 3.6, 4.0, 7.6

Aircraft Engine Component Improvement Program

- FADEC Digital Flight Controller 5.0

- LOLA Boost Pump 3.0

#### NAVY RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Aviation Survivability

- Aircrew Modular Helmet 4.0

#### AIR FORCE RESEARCH, DEVELOPMENT, TEST AND EVALUATION

Precision Location and Identification Program (PLAID) 10.6, 14.7, 25.3

Agile Combat Support

- Deployable O2 Systems 0.3, 2.5, 2.8

- Integrated Medical Information Technology System 6.0

Life Support Systems

- Fixed Aircrew Standardized Seats (FASS) 2.5

- Survival Gear - Aircrew Rescue Signaling System 4.0

Common Low Observables

Verification System (CLOVERS) 4.8, 13.0, 17.8

Podded Reconnaissance Systems

- Upgrade Theater Airborne Reconnaissance Systems  
(TARS) pods 13.6

## READINESS PB SASC Total

### ARMY AMMUNITION PROCUREMENT

Conventional Ammunition Demilitarization	50.0, 10.0 (1.9), 60.0
Special Equipment for Ammunition Depots	4.8, 3.0, 7.8
.50-cal Saboted Light Armor Penetrator	4.1, 4.0, 8.1
155mm HE M107	30.2, 1.0, 31.2
Modern Demolition Initiators (MDIs)	28.0, 4.0, 32.0
Bunker Defeat Munition	7.8, 5.0, 12.8

### MARINE CORPS AMMUNITION PROCUREMENT

.50-cal Saboted Light Armor Penetrator	0.3, 0.3, 0.6
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### AIR FORCE AMMUNITION PROCUREMENT

MJU052/B F-15 infrared countermeasures	1.0
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### ARMY OPERATIONAL MAINTENANCE

Corrosion Initiative	
- Corrosion Control for Vehicles	6.0
Combat Training Center	1.3
M-Gators, Lightweight Tactical Utility Vehicles	5.0

### NAVY OPERATION AND MAINTENANCE

Corrosion Initiative	
- Ambient Temperature Cure Glass Coatings	2.0
Fleet Range Operations Support	8.0
Fleet Training Resource Strategy	15.0
Improved Shipboard Combat Information Center (CIC)	8.0
MK 45 Overhauls	5.0
Submarine Broadcast Support	
- Accelerate Paint Removal from Naval Communications Towers in Maine	1.0
Configuration Management for Navy	
- Weapons Systems	13.5

### DEFENSE WIDE OPERATIONS AND MAINTENANCE

Range Enhancement Fund	20.0
Legacy Resource Management Program	3.3
Procurement Technical Assistance Program	5.0

### MARINE CORPS RESERVE OPERATIONS AND MANAGEMENT

Initial Issue Personal Clothing	
- Polar Fleece Pullovers	5.0

AIR FORCE RESERVE OPERATIONS AND MAINTENANCE

Command Server Consolidation 8.0

ARMY NATIONAL GUARD OPERATIONS AND MAINTENANCE

Extended Cold Weather Clothing System (ECWCS) 12.0

AIR NATIONAL GUARD OPERATIONS AND MAINTENANCE

Medical Equipment

- Expeditionary Medical Support (EMEDS) Units 0.35

Extended Cold Weather Clothing System (ECWCS) 4.0

TOTAL= \$1.7 Billion

MILCON= \$580 Million

TOTAL FY2003 MARKUP MEMBER ADDS= \$2.3 Billion