

**FISCAL YEAR 2006/2007  
BIANNUAL BUDGET ESTIMATE  
SUBMISSION**

**February 2005**



**CHEMICAL AGENTS AND MUNITIONS DESTRUCTION**

**Program:** Chemical  
Demilitarization

**Agency:** Department of Defense--Military

**Bureau:** Procurement

**Rating:** Ineffective

**Program Type:** Capital Assets and Service Acquisition

**Last Assessed:** 2 years ago

<i>Key Performance Measures from Latest PART</i>	<i>Year</i>	<i>Target</i>	<i>Actual</i>
Long-term Measure: Capital cost of fuel cell generating equipment (\$/kW)	2012	100%	
Annual Measure: Measure Under Development	2002	25%	25%
	2004	45%	TBD
	2005	45%	
	2006	45%	
Annual Measure: Measure Under Development			

**Recommended Follow-up Actions**

**Status**

Approve a destruction process and proceed with planning efforts for the Blue Grass, KY site and work with the community groups at all sites to ensure that safety concerns are met.	Action taken, but not completed
Focus on maintaining the schedule and efficiency goals.	Action taken, but not completed
Manage the program according to milestones DoD recently developed for each site.	Action taken, but not completed

**Update on Follow-up Actions:**

The Key Performance Measures for the Chemical Demilitarization program are based on the Chemical Weapons treaty with the Former Soviet Union and call for destroying specific amounts of materials on given dates. The program has recently been restructured to emphasize near-term destruction of stockpiles to ensure the maximum amount of munitions are destroyed by 2012. The goals and measures for the program are being reassessed to account for actual destruction rates. The priority for operations remains safety for the plant environments and the immediately surrounding communities.

**Program Funding Level (in millions of dollars)**

<u>2004 Actual</u>	<u>2005 Estimate</u>	<u>2006 Estimate</u>
1,620	1,454	1,406

DEPARTMENT OF THE ARMY  
BUDGET ESTIMATE SUBMISSION FOR FY 2006/2007  
CHEMICAL AGENTS AND MUNITIONS DESTRUCTION

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**JUSTIFICATION OF FY 2006/2007 BUDGET ESTIMATE SUBMISSION  
CHEMICAL AGENTS AND MUNITIONS DESTRUCTION**

**APPROPRIATION LANGUAGE**

For expenses, not otherwise provided for, necessary for the destruction of the United States stockpile of lethal chemical agents and munitions in accordance with the provisions of Section 1412 of the National Defense Authorization Act, 1986 (50 U.S.C. 1521), and for the destruction of other chemical warfare materiel that are not in the chemical weapon stockpile, \$1,405,827,000 to become available on October 1, 2005 of which \$1,241,514,000 shall be for Operation and Maintenance, to remain available until September 30, 2006; \$47,786,000 shall be for Research and Development, to remain available until September 30, 2007; and \$116,527,000 shall be for Procurement, to remain available until September 30, 2008.

Further, for the foregoing purposes, as follows: \$1,388,571,000 to become available on October 1, 2006 of which \$1,236,056,000 shall be for Operation and Maintenance, to remain available until September 30, 2007; \$43,789,000 shall be for Research and Development, to remain available until September 30, 2008; and \$108,726,000 shall be for Procurement, to remain available until September 30, 2009.

DEPARTMENT OF THE ARMY  
JUSTIFICATION OF FY 2006/2007 BUDGET ESTIMATE SUBMISSION  
CHEMICAL AGENTS AND MUNITIONS DESTRUCTION

APPROPRIATION JUSTIFICATION

(In Thousands of Dollars)

FY 2007 Estimate	\$1,388,571
FY 2006 Estimate	\$1,405,827
FY 2005 Budget	\$1,372,990
FY 2004 Actual	\$1,500,260

Part I – Purpose and Scope

On 1 December 2003, the Chemical Materials Agency (CMA) was formally established with the mission for safe and secure storage of the chemical stockpile and to safely and quickly destroy all chemical warfare and related material, while ensuring maximum protection for the public, the personnel involved in the destruction effort, and the environment. The Chemical Demilitarization Program is a national program of high significance to the Army, the Departments of Defense and State, the Administration, the Congress, and the world. This is a congressionally mandated program. The objective of the Chemical Demilitarization Program is to destroy the U.S. inventory of lethal chemical agents and munitions and related (non-stockpile) materiel, thus avoiding future risks and costs associated with its continued storage. The Chemical Demilitarization Program supports the international initiatives to rid the world of chemical weapons, as enunciated in the Chemical Weapons Convention (CWC).

The Chemical Demilitarization Program is based on Section 1412 of the National Defense Authorization Act for Fiscal Year 1986 (Public Law 99-145) which directs the Department of Defense to destroy the complete unitary chemical stockpile by September 30, 1994 or the date established by a U.S. ratified treaty banning the possession of chemical agents and munitions. Public Law 99-145 was subsequently amended by the National Defense Authorization Act for Fiscal Year 1989 (Public Law 100-456), the National Defense Authorization Act for Fiscal Year 1992 (Public Law 102-190), and the National Defense

Authorization Act for Fiscal Year 1993 (Public Law 102-484), which extended program completion to April 30, 1997; July 31, 1999; and December 31, 2004, respectively.

The United States ratified the Chemical Weapons Convention (CWC) on April 25, 1997. The CWC is an international treaty banning development, production, stockpiling and use of chemical weapons. More specifically, each ratifying country is prohibited, under any circumstances, from: developing, producing, acquiring, retaining or transferring chemical weapons to anyone; using chemical weapons; engaging in any military preparations to use chemical weapons; and from assisting, encouraging or inducing, in any way, anyone engaging in any activity prohibited under the CWC. The CWC also requires each ratifying country possessing chemical weapons to destroy them in an environmentally safe manner. It specifically forbids the disposal of chemical weapons by open pit burning, land burial, or dumping in any body of water. Under the treaty, chemical weapons are to be destroyed by April 29, 2007, with a possible one-time extension until April 29, 2012. All nations that are party to the CWC must comply with international law and are subject to a stringent inspection regime conducted by an international agency, the Organization for the Prohibition of Chemical Weapons. The Department's policy is to safely destroy the U.S. lethal chemical stockpile as soon as possible.

The Chemical Demilitarization Program consists of the Chemical Stockpile Disposal Project, the Chemical Stockpile Emergency Preparedness Project, the Non-Stockpile Chemical Materiel Project, the Alternative Technologies and Approaches Project, and the Assembled Chemical Weapons Alternatives Program. The Director, Chemical Materials Agency has the mission to execute chemical materiel destruction by providing centralized management of the demilitarization and disposal of the United States' stockpile of lethal chemical warfare agents and munitions and all non-stockpile chemical materiel. The Program is a Major Defense Acquisition Program (Acquisition Category ID), and the Defense Acquisition Executive is the milestone decision authority.

**The Chemical Stockpile Disposal Project (CSDP):** The Project Manager for the CSDP is responsible for the safe and environmentally sound destruction of the United States unitary chemical stockpiles located at Johnston Atoll (completed), Utah, Alabama, Oregon and Arkansas. To accomplish this mission, the Project Manager plans, budgets, executes, measures performance and coordinates all phases of the chemical disposal project. This includes design, construction, equipment acquisition and installation, training,

systemization testing, operations, and closure. The Project Manager also ensures that physical security, safety, and environmental requirements associated with the project are identified, are in compliance with all Department of Defense and Department of the Army directives and Federal, State, and local laws, and are integrated into the entire technical effort.

**The Chemical Stockpile Emergency Preparedness Project (CSEPP):** The CSEPP is an effort complementary to the Chemical Stockpile Disposal Project to enhance protection of the civilian population during storage and destruction of the United States' chemical weapons stockpile. The U.S. Army and the Department of Homeland Security, Federal Emergency Management Agency (DHS/FEMA) provide emergency response/preparedness to the communities surrounding the eight continental United States (CONUS) disposal sites, and jointly manage the projects. DHS/FEMA has total responsibility and accountability for working with State, Tribal, and local governments to enhance the required off-post emergency preparedness within established resources. The Army manages on-post emergency preparedness and provides technical support for both on-post and off-post emergency preparedness. An Integrated Process Team (IPT) concept is the primary management tool used by the Army, DHS/FEMA, State, Tribal and local governments to address their concerns and meet Defense Acquisition Program requirements.

**The Non-Stockpile Chemical Materiel Project (NSCMP):** In 1991, the Deputy Secretary of Defense directed that the Department of the Army be fully accountable for all Department of Defense chemical warfare related materiel destruction and designated the Secretary of the Army as Defense Executive Agent. The Project Manager for NSCMP, under the supervision of the Program Manager for the Elimination of Chemical Weapons, provides centralized management and direction to the Department of Defense Agencies for disposal of non-stockpile chemical materiel in a safe, environmentally sound, and cost effective manner. The Army has defined four broad categories of non-stockpile materiel: binary chemical weapons, recovered chemical weapons, (support to recoveries and remediation) miscellaneous chemical warfare materiel, and former production facilities.

Major NSCMP functions include: Identifying the magnitude of the future non-stockpile program in terms of locations, types of agents and materiel, and quantities that require treatment (sometimes referred to as the contingent liability or unfunded part of the program); developing and implementing transportation, characterization, and destruction equipment and procedures; supporting ratified treaties; providing for the destruction of



environmentally sensitive and contaminated materiel not covered by treaty but identified as part of the funded baseline; and developing and implementing schedule and cost estimates.

**The Alternative Technologies and Approaches Project:** In August 1994, based on recommendations in the National Research Council's Report, "Recommendations for the Disposal of Chemical Agents and Munitions," the Army initiated an aggressive research and development project on two low-temperature, low-pressure alternative technologies to the baseline process. Three additional commercial technologies were selected for consideration in November 1995 and were evaluated for potential use to destroy the stockpile at the two bulk-only sites, Aberdeen Proving Ground (APG), Maryland and Newport Chemical Depot (NECD), Indiana. In February 2002, the Aberdeen Site was approved for accelerated agent destruction in order to reduce risk to the public. The Aberdeen process involves hot water neutralization of HD (mustard) agent, off-site shipment of the effluent to a permitted treatment, storage and disposal facility, and ton container cleanout operations. In May 2002, the Newport site also was approved for accelerated agent neutralization. The destruction process at Newport involves neutralization of VX (nerve) agent with hot aqueous sodium hydroxide, off-site shipment of the effluent to a permitted treatment, storage and disposal facility, and ton container cleanout operations.

**The Assembled Chemical Weapons Alternatives Program:** The Omnibus Consolidated Appropriation Act for FY 1997 (Public Law 104-208) directed that the Under Secretary of Defense for Acquisition and Technology (USD A&T), now Under Secretary of Defense for Acquisition, Technology and Logistics (USD AT&L), conduct a program to identify and demonstrate not less than two alternatives to the baseline incineration process for the demilitarization of assembled chemical munitions. In compliance with Public Law 104-208, a Program Manager for the Assembled Chemical Weapons Alternatives Program (PMACWA) was selected. Public Law 105-261 authorized PMACWA to continue to manage the development and testing (including demonstration and pilot-scale testing) of technologies for the destruction of lethal chemical munitions that are potential or demonstrated alternatives to the baseline incineration program. In 2002, Public Law 107-248 assigned the PMACWA the responsibility for the destruction of the chemical weapons stockpiles at the Pueblo Chemical Depot in Colorado and the Blue Grass Army Depot in Kentucky.

## Part II – Justification of Funds Required

The funds requested in this budget submission are required to carry out the Congressional mandate of public law 99-145 and support the commitments of this nation under the Chemical Weapons Convention. This document provides justification for FY 2006-2007 financial requirements in support of the Chemical Demilitarization Program, which is budgeted in the Chemical Agents and Munitions Destruction appropriation.

In FY 2006, Chemical Stockpile Disposal Project activities will include the following items: continue post-closure environmental monitoring activities at the Johnston Atoll Chemical Agent Disposal System (JACADS); continue agent destruction operations at Tooele Chemical Agent Disposal Facility (TOCDF), Anniston Chemical Agent Disposal Facility (ANCDF), Umatilla Chemical Agent Disposal Facility (UMCDF) and Pine Bluff Chemical Agent Disposal Facility (PBCDF); and begin closure activities at the Chemical Agent Munitions Disposal System, Deseret Chemical Depot, Utah, while supporting the Chemical Stockpile Disposal Project.

The Alternative Technologies and Approaches Project will complete ton container cleanout operations and begin closure activities at the Aberdeen Proving Ground Facility and continue VX agent destruction and ton container cleanout operations at Newport Chemical Depot, Indiana.

The Chemical Stockpile Emergency Preparedness Project will continue to sustain emergency preparedness activities at its on-post installations and continue to support CSEPP activities at CSEPP States, a Tribal government, and local communities.

The Assembled Chemical Weapons Alternatives (ACWA) program will continue actions initiated in FY 2005 to determine potential alternatives that are safe, technically executable, and cost-effective for the destruction of the chemical weapons stockpiles at Pueblo, CO and Blue Grass, KY. Based on the results of review of alternatives, the Department will determine the path forward for the ACWA program

The Non-Stockpile Chemical Materiel Project (NSCMP) will include the following activities: continue destruction of former production facilities at Newport Chemical Depot (NECD) and Pine Bluff Arsenal (PBA); continue planning efforts for the destruction of the ancillary buildings associated with facilities (Pilot Plant) at Aberdeen Proving

Grounds (APG); complete destruction of binary DF and QL; complete assessment of Recovered Chemical Weapon Materiel (RCWM) at PBA; begin destruction of RCWM using the Pine Bluff Explosive Destruction System (PBEDS); continue Munitions Assessment and Processing System (MAPS) operations at APG; continue Chemical Agent Identification Sets (CAIS) destruction operations at PBA; begin procurement of EDS Phase 3 Units 3 and 4 and one RRS unit; continue development of improved technologies for treatment of neutralized waste; continue PBA ton container decontamination operations and begin cut and clean operations; continue Chemical Samples operations; provide Mobile Munitions Assessment System (MMAS), Rapid Response System (RRS) and Explosive Destruction System (EDS) crew sustainment, training, and emergency response capability.

In FY 2007 Chemical Stockpile Disposal Project activities will continue as follows: post-closure environmental monitoring activities at the Johnston Atoll Chemical Agent Disposal System (JACADS); agent destruction operations at Tooele Chemical Agent Disposal Facility (TOCDF), Anniston Chemical Agent Disposal Facility (ANCDF), Umatilla Chemical Agent Disposal Facility (UMCDF) and Pine Bluff Chemical Agent Disposal Facility (PBCDF); and continue closure activities at Chemical Agent Munitions Disposal System while supporting the Chemical Stockpile Disposal Project.

The Alternative Technologies and Approaches Project will continue closure activities at the Aberdeen Proving Ground Facility and continue VX agent destruction and ton container cleanout operations at Newport Chemical Depot, Indiana.

The Chemical Stockpile Emergency Preparedness Project will continue to sustain emergency preparedness activities at its on-post installations and continue to support CSEPP activities at CSEPP States, a Tribal government, and local communities.

The Assembled Chemical Weapons Alternatives (ACWA) program funds will be used to continue work initiated in FY 2006 for destruction of the chemical weapons stockpiles at Pueblo, CO and Blue Grass, KY.

The Non-Stockpile Chemical Materiel Project (NSCMP) will include the following activities: complete destruction of former production facilities at Newport Chemical Depot (NECD) and Pine Bluff Arsenal (PBA); begin destruction of ancillary buildings associated with facilities (Pilot Plant) at Aberdeen Proving Ground (APG); complete destruction of RCWM using the Pine Bluff Explosive Destruction System (PBEDS); begin and

complete BREA destruction operations at PBA; continue Munitions Assessment and Processing System (MAPS) operations at APG; complete CAIS destruction operations at PBA; complete procurement of EDS Phase 2 Units 3 and 4 and one RRS unit; begin procurement of EDS Phase 2 Unit5; continue development of improved technologies for treatment of neutralized waste; complete PBA ton container decontamination operations and continue cut and clean operations; continue Chemical Samples operations; provide Mobile Munitions Assessment System (MMAS), Rapid Response System (RRS) and Explosive Destruction System (EDS) crew sustainment, training, and emergency response capability.

**Part III Milestones**

**Major Milestones for the Chemical Stockpile Disposal Project are as follows:**

**Johnston Atoll Chemical Agent Disposal System (JACADS):**

Began and continue post closure environmental monitoring      January 2004 to 4th Qtr FY 2007

**Tooele Chemical Agent Disposal Facility (TOCDF):**

Process VX-filled munitions	March 2003 to 2nd Qtr FY 2005
Complete VX to Mustard agent changeover	2nd Qtr FY 2005 to 4th Qtr FY 2005
Process Mustard-filled munitions	4th Qtr FY 2005 to TBD

**Anniston Chemical Agent Disposal Facility:**

Process GB filled munitions	August 2003 to 1st Qtr FY 2006
Complete GB to VX agent changeover	1st Qtr FY 2006 to 3rd Qtr FY 2006
Process VX-filled munitions	3rd Qtr FY 2006 to 2nd Qtr FY 2009

**Umatilla Chemical Agent Disposal Facility:**

Complete systemization	4th Qtr FY 2004
Process GB filled munitions	4th Qtr FY 2004 to 3rd Qtr FY 2006
Complete GB to VX Agent changeover	3rd Qtr FY 2006 to 2nd Qtr FY 2007

Process VX Filled Munitions 2nd Qtr FY 2007 to 3rd Qtr FY 2008

**Pine Bluff Chemical Agent Disposal Facility:**

Complete systemization	2nd Qtr FY 2005
Process GB filled rockets	2nd Qtr FY 2005 to 2nd Qtr FY 2007
Complete GB to VX Changeover	2nd Qtr FY 2007 to 3rd Qtr FY 2007
Process VX Filled Munitions	3rd Qtr FY 2007 to 3rd Qtr FY 2008

**Major Milestones for the Alternative Technologies and Approaches Project are as follows:**

**Aberdeen Chemical Agent Neutralization Facility**

Start agent neutralization operations	April FY 2003
End agent neutralization operations	2nd Qtr FY 2005
Begin empty ton container operations	2nd Qtr FY 2005
End Empty ton container operations 1stQtr FY 2006	
Start Closure	2nd Qtr FY 2006

**Newport Chemical Agent Neutralization Facility**

Start agent neutralization operations	3rd Qtr FY 2005
End Agent Neutralization Operations	1st Qtr FY 2008
Start Closure	1st Qtr FY 2008

**Major Milestones for Chemical Stockpile Emergency Preparedness Project are as follows:**

Essential emergency preparedness systems in place and operational	September 2004
Close out of response capabilities following the completion of demilitarization operations at:	

Aberdeen Proving Ground, Maryland

4th Qtr FY 2005

**Major Milestones for the Non-Stockpile Chemical Materiel Project are as follows:**

**Explosive Destruction System (EDS):**

Conduct Dev/Op Testing of Phase 2, Unit 1	April 2003 to May 2004
Phase 2 Unit 1 Operational IPR	September 2004
Procure two EDS Phase 2 Systems	1st Qtr FY 2006
Procure one EDS Phase 2 System	1st Qtr FY 2007

**Rapid Response System (RRS):**

Procure one RRS	1st Qtr FY 2006
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**Munitions Assessment and Processing System (MAPS):**

Initiate Systemization	January 2004
Operational IPR	3rd Qtr FY 2005
Begin MAPS Operations	3rd Qtr FY 2005

**Binary Materiel:**

Destroy Bulk DF and QL	1st Qtr FY 2006 to 2nd Qtr FY 2006
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**Former Production Facility:**

Complete 80% Destruction of U.S. Production Capacity *	December 2003
Complete 100% Destruction of U.S. Production Capacity *	3rd Qtr FY 2007

\*NOTE: Chemical Warfare Convention Milestone

**Destruction of Chemical Warfare Materiel (CWM) and Facilities [Missions]:**

Demolish NCD Production Facility Steps 0, I, II	October 1999 to 4th Qtr FY 2005
Demolish NCD Production Facility Step III	August 2002 to 3rd Qtr FY 2007
Demolish PBA Integrated Binary Facility	October 2003 to 3rd Qtr FY 2007
Demolish APG Ancillary Buildings	1st Qtr FY 2007 to 3rd Qtr FY 2008

**Chemical Samples\* (CS):**

Destroy Aberdeen Proving Ground (APG) CS	January 2000 to 3rd Qtr FY 2006
Destroy Pine Bluff Arsenal (PBA) CS*	FY 2006
Destroy Pueblo Chemical Depot (PUCD) CS*	FY 2008
Destroy Anniston Army Depot (ANAD) CS*	FY 2007
Destroy Umatilla Chemical Depot (UMCD) CS*	FY 2005 to FY 2006
Destroy Blue Grass Chemical Depot (BGAD) CS*	FY 2009

\*NOTE: Schedules under study due to change in public law allowing use of Chemical Demilitarization Facilities

**Empty Ton Containers (TCs):**

APG Empty TCs:	
Destruction Operations	1st Qtr FY 2003 to 2nd Qtr FY 2005
PBA Empty TCs:	
Decontamination	4th Qtr FY 2003 to 3rd Qtr FY 2007
Cut & Clean Operations	1st Qtr FY 2006 to 1st Qtr FY 2008

**Recovered CWM (RCWM)**

Begin RCWM Operations at:	
APG (MAPS)	2nd Qtr FY 2005 to 4th Qtr FY 2009
PBA (PBEDS)*	4th Qtr FY 2005 to 3rd Qtr FY 2007
DPG	September 2004

\*NOTE: Pine Bluff Explosive Destruction System (PBEDS) deployment of multiple EDS units to destroy RCWM located at PBA.

**Recovered Chemical Agent Identification Sets (CAIS):**

Destruction of Recovered CAIS at:	
Pine Bluff Arsenal	3rd Qtr FY 2005 to 1st Qtr FY 2008

**Major Milestones for Assembled Chemical Weapons Alternatives Program are as follows:**

**Program**

Program Inception

1997

Criteria Development, Assessment, Demonstration of Alternative Technologies	1997 to 2002
Published Pueblo Draft Environmental Impact Statement	May 2001
Published Blue Grass Draft Environmental Impact Statement	May 2002
Received Pueblo Record of Decision and Technology Selection	July 2002
Received Blue Grass Record of Decision and Technology Selection	February 2003

**Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP)**

Record of Decision and Technology Selection	July 2002
Systems Contract Award	September 2002
RCRA Permit Application Submittal	December 2003
RCRA RD&D Permit Approval, Stage I	July 2004
Limited Notice to Proceed Issued for Facility Construction, Stage I	August 2004
RCRA RD&D Permit Application Submittal, Stage II	August 2004

**Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP)**

Record of Decision and Technology Selection	January 2003
Systems Contract Award	June 2003
RCRA Permit Application Submittal	March 2004
Limited Notice to Proceed Issued for Early Construction	September 2004
Record of Decision for Tiered Environmental Assessment	2nd Qtr FY 2005



**BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

(In Thousands of Dollars)

<b>FY 2007 Estimate</b>	<b>\$1,236,056</b>
<b>FY 2006 Estimate</b>	<b>\$1,241,514</b>
<b>FY 2005 Budget</b>	<b>\$1,088,801</b>
<b>FY 2004 Actual</b>	<b>\$1,169,168</b>

**Purpose and Scope**

This budget activity provides for the management, technical and operational support required for chemical demilitarization under the Chemical Stockpile Disposal Project (CSDP), Alternative Technologies & Approaches Project (ATAP), and emergency response activities under the Chemical Stockpile Emergency Preparedness Project (CSEPP). It also provides for the support required for remediation of other chemical warfare materiel under the Non-Stockpile Chemical Materiel Project (NSCMP).

**Justification of Funds Required**

Operations financed by this budget activity in FY 2006-2007 include: program management for the Chemical Demilitarization Program and Chemical Stockpile Disposal Project (CSDP); program and integration support including public affairs, safety and quality assurance; program oversight, environmental and engineering services; continuation of post-closure environmental monitoring at the Johnston Atoll Chemical Agent Disposal System (JACADS); continuation of facility closure at Chemical Agent Munitions Disposal System (CAMDS); continuation of training activities at the Chemical Demilitarization Training Facility (CDTF); and continuation of disposal operations at Tooele Chemical Agent Disposal Facility (TOCDF), Anniston Chemical Agent Disposal Facility (ANCDF), Umatilla Chemical Agent Disposal Facility (UMCDF), and Pine Bluff Chemical Agent Disposal Facility (PBCDF).

In addition, the FY 2006-2007 budget provides for Alternative Technologies and Approaches requirements for program management, supports ton container cleanout activities and closure at the Aberdeen, MD site; supports VX neutralization activities at the Newport, IN Site; continued support of emergency response capabilities at the state, tribal, and local levels of government and at the chemical stockpile storage installations; and Non-Stockpile Chemical Materiel requirements for destroying chemical

**BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

warfare-related materiel which includes costs for Program Management, Recovered Chemical Warfare Materiel (CWM), Miscellaneous CWM, binary chemical weapons, continued destruction of Former Production Facilities, emergency response capability and programmatic support activities which include regulatory requirements, public affairs, program integration, support equipment, and logistics support.

**BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
	<b>Actual</b>	<b>Budget</b>	<b>Estimate</b>	<b>Estimate</b>
<b>Cnl Demil--Program Management</b>	<b>9,951</b>	<b>11,094</b>	<b>12,415</b>	<b>13,110</b>
<b>Cnl Demil Programmatic Support Activities</b>	<b>13,019</b>	<b>19,370</b>	<b>19,629</b>	<b>19,151</b>
Cnl Stockpile Disposal--Program Mgmt	11,460	16,750	14,653	15,480
CSD Programmatic Support Activities	28,472	33,011	26,111	25,014
Johnston Atoll Chemical Agent Disposal System	16,245	572	542	556
Chemical Agent Munitions Disposal System	27,790	29,378	35,895	11,921
Chemical Demilitarization Training Facility	3,381	5,809	3,565	3,627
Tooele Chemical Agent Disposal Facility	170,068	134,985	149,502	169,771
Anniston Chemical Agent Disposal Facility	132,646	126,085	161,100	174,900
Umatilla Chemical Agent Disposal Facility	154,964	150,025	163,900	179,625
Pine Bluff Chemical Agent Disposal Facility	144,492	118,190	149,600	168,000
Pueblo Chemical Agent Disposal Facility	0	0	0	0
Blue Grass Chemical Agent Disposal Facility	0	0	0	0
<b>Subtotal Chemical Stockpile Disposal</b>	<b>689,518</b>	<b>614,805</b>	<b>704,868</b>	<b>748,894</b>
Alternative Technologies and Approaches - Program Management	6,353	6,125	7,800	7,796
Alternative Technologies and Approaches - Mission Aberdeen, MD	75,306	84,999	116,294	74,300
Alternative Technologies and Approaches - Mission Newport Ind	106,504	122,528	139,006	139,700
<b>Subtotal Alternative Tech and Approaches</b>	<b>188,163</b>	<b>213,652</b>	<b>263,100</b>	<b>221,796</b>
Cnl Stockpile Emergency Preparedness Project On-Post-- Prgm Mgmt	1,458	1,735	1,757	1,810
Cnl Stockpile Emergency Preparedness Project On-Post--Mission	40,672	42,819	40,243	40,090
Cnl Stockpile Emergency Preparedness Project Off-Post--Mission	97,681	55,714	69,500	67,839
<b>Subtotal Chemical Stockpile Emergency Preparedness Proj</b>	<b>139,811</b>	<b>100,268</b>	<b>111,500</b>	<b>109,739</b>
<b>Non-Stockpile Chemical Materiel--Program Management</b>	<b>5,522</b>	<b>5,470</b>	<b>5,535</b>	<b>5,616</b>
Recovered Chemical Warfare Materiel (CWM)	40,930	50,099	52,440	48,063
Miscellaneous CWM	14,882	5,651	20,704	18,000
Binary CWM	6,058	12,745	2,618	0
Former Production Facility	49,409	41,807	34,701	34,219
Programmatic Support Activities	11,905	13,840	14,004	17,468
<b>Mission Subtotal</b>	<b>123,184</b>	<b>124,142</b>	<b>124,467</b>	<b>117,750</b>
<b>Subtotal Non-Stockpile Chemical Materiel Product</b>	<b>128,706</b>	<b>129,612</b>	<b>130,002</b>	<b>123,366</b>
<b>Total Funded</b>	<b>1,169,168</b>	<b>1,088,801</b>	<b>1,241,514</b>	<b>1,236,056</b>

**BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

**Program Manager for Elimination of Chemical Weapons (PMECW)--Program Management:** This area provides for total management of the demilitarization and disposal of the U.S. chemical weapons stockpile and non-stockpile materiel. In addition, this activity provides the programmatic direction and matrix support required by the three project managers who execute the program. The FY 2006 and FY 2007 budget request includes labor, training, awards and overtime; base support; other support and contractual costs, which include travel, transportation, materials and supplies, equipment and rentals; and matrix support from U.S. Army Research Development & Engineering Command for labor.

**Chemical Demilitarization Programmatic Support Activities:** This element will fund programmatic management integration activities by contractor and support activities, and oversight and technical efforts by government performers or contractors, which will benefit the entire CMA mission. Performers will conduct programmatic studies and evaluations; collect, organize, format and maintain data; and consolidate and prepare acquisition, technical and management reports; provide contract support; information management; and other programmatic costs of the program. The FY 2006 and FY 2007 budget request includes safety and quality functions; program integration efforts such as acquisition program reporting, project monitoring, decision support, life-cycle-cost database support, and information management and support; system engineering support; material management, litigation support, facility management training program, and contracting support from U.S. Army Materiel Command; and program oversight, studies and evaluations.

**Project Manager for Chemical Stockpile Disposal (PMCS D)--Program Management:** Program Management includes implementation and execution, as well as management of the design, development, and acquisition of equipment and facilities, on-site movement of chemical munitions and agents for disposal, demilitarization operations, disposal of waste products, post-operational cleanup activities, and plant closure. The FY 2006 and FY 2007 budget request includes labor, awards and overtime; base support; other support and contractual costs which include travel, transportation, materials and supplies, equipment and rentals; and for matrix support from U.S. Army Research Development & Engineering Command for labor.

**Project Manager for Chemical Stockpile Disposal (PMCS D)--Programmatic Support:** This element will fund programmatic technical and management integration activities by contractors. Contractors will conduct programmatic studies and evaluations; collect, organize, format

**BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

and maintain data; conduct technical services such as medical support; and consolidate and prepare technical and management reports. This element will also fund oversight and technical efforts by government performers or contractors. Activities include oversight by the Department of Health and Human Services and the National Academy of Sciences; acquisition of substitute munitions for use in equipment prove-out, pre-operational test and training exercises; administrative and technical support to design efforts; and other programmatic costs of the program. The FY 2006 and FY 2007 budget request includes safety and quality functions; program integration efforts such as acquisition program reporting, project monitoring, decision support, life-cycle-cost database support, and information management and support; and public outreach offices and public affairs initiatives such as videos, newsletters, publicity and exhibits. The budget request also includes engineering services in support of design, model and simulation, agent monitoring, environmental support, and litigation support; National Environmental Policy Act documentation; contracting support from the U.S. Army Field Support Command and the U.S. Army Materiel Command; substitute munitions; program oversight, studies and evaluations; and demilitarization support.

**Johnston Atoll Chemical Agent Disposal System (JACADS)**: This item includes funding to continue post closure activities. The FY 2006 and FY 2007 budget request will fund the continuation of post-closure environmental monitoring activities.

**Chemical Agent Munitions Disposal System (CAMDS)**: This prototype facility will support the stockpile program, secondary waste destruction and closure activities. The FY 2006 and FY 2007 budget request includes labor to support the CAMDS work; other support costs which includes materials/supplies, travel, training, and contracts; depot support/base support which includes labor and utilities; other government agency support; and environmental support.

**Chemical Demilitarization Training Facility (CDTF)**: This item includes funding required to continue operation of the chemical demilitarization training facility located at Edgewood Area, Aberdeen Proving Ground, Maryland, through FY 2007. The FY 2006 and FY 2007 budget request will fund the systems contract that includes labor and other non-labor items, depot support/base operations, and contracting and site support.

**Tooele Chemical Agent Disposal Facility (TOCDF)**: This item includes funding required to continue operations at the chemical demilitarization facility located at Tooele, Utah

**BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

through FY 2007. The FY 2006 and FY 2007 budget request will fund the systems contract that includes labor, waste disposal, mitigation fees, materials and supplies, equipment rental, spare parts and refractory; training; and other non-labor items. It will fund environmental support/fees and cooperative agreements; depot support/base operations; and contracting and site support.

**Anniston Chemical Agent Disposal Facility (ANCDF):** This item includes funding required to continue agent demilitarization operations at the chemical demilitarization facility located at Anniston, Alabama through FY 2007. The FY 2006 and FY 2007 budget request will fund the systems contract that includes labor, waste disposal, mitigation fees, materials and supplies, equipment rental, spare parts and refractory; training; and other non-labor items. It will fund environmental support/fees and cooperative agreements; depot support/base operations; and contracting and site support.

**Umatilla Chemical Agent Disposal Facility (UMCDF) O&M Requirements:** This item includes funding required to continue operations at the chemical demilitarization facility located at Hermiston, Oregon through FY 2007. The FY 2006 and FY 2007 budget request will fund the systems contract that includes labor, waste disposal, mitigation fees, materials and supplies, equipment rental, spare parts and refractory; training; and other non-labor items. It will fund environmental support/fees and cooperative agreements; depot support/base operations; and contracting and site support.

**Pine Bluff Chemical Agent Disposal Facility (PBCDF):** This item includes funding required to continue agent disposal activities at the chemical demilitarization facility located in Pine Bluff, Arkansas through FY 2007. The FY 2006 and FY 2007 budget request will fund the systems contract that includes labor, waste disposal, mitigation fees, materials and supplies, equipment rental, spare parts and refractory; training; and other non-labor items. It will fund environmental support/fees and cooperative agreements; depot support/base operations; and contracting and site support.

**Alternative Technologies and Approaches Project Program Management:** The FY 2006 and FY 2007 budget request for program management includes internal operating budget costs for labor, awards and overtime, travel, other costs such as contractual services, training, and supplies; and programmatic mission support costs for program oversight; public outreach support; program integration and cost support; and contract management and technical support.

## **BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

**Aberdeen Chemical Agent Neutralization Facility (ABCDF):** This item includes funding required for ton container cleanout and closure operations at the chemical demilitarization facility located at Aberdeen Proving Ground, Maryland. The FY 2006 budget request includes requirements for system contractor activities to complete ton container cleanout operations and to support closure; and non-system contractor activities such as field office/technical support/contracting support; hazardous waste disposal; scrap metal disposal; and other government agency support. The FY 2007 budget request includes requirements for system contractor activities to support closure; and non-system contractor activities such as field office/technical support/contracting support; hazardous waste disposal; scrap metal disposal; and other government agency support.

**Newport Chemical Agent Neutralization Facility (NECDF):** This item includes funding required to continue agent disposal activities at the chemical demilitarization facility located in Newport, Indiana through FY 2007. The FY 2006 and FY 2007 budget request includes requirements for systems contractor activities in support of agent neutralization operations; and non-systems contractor activities such as field office/technical support/contracting support; depot support and other government agency support. The FY 2007 budget request also includes completion of ton container cleanout operations

**Chemical Stockpile Emergency Preparedness Project (CSEPP) On-Post Program Management:** The FY 2006 and FY 2007 budget request includes funding for labor, awards, overtime, travel, training, and contractual services.

**Chemical Stockpile Emergency Preparedness Project (CSEPP) On-Post Mission:** The FY 2006 and FY 2007 budget request provides funding for the following requirements: Emergency planner/response personnel for the seven chemical stockpile storage installations; Army administration including base operations support, travel, and transportation; on-post training and annual joint exercises; Army public education and awareness projects; technical planning support; and operations and maintenance of on-post alert and notification systems, data automation systems, communications systems, Emergency Operation Centers, Joint Information Centers, and emergency response capabilities. This budget request also provides funding for Army managed technical support for sustaining both on-post and off-post emergency response capabilities.

## **BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

**Chemical Stockpile Emergency Preparedness Project (CSEPP) Off-post Mission:** The FY 2006 and FY 2007 budget request provides funding for the following requirements: Emergency planner/response personnel for DHS/FEMA, State, Tribal, and local governments; DHS/FEMA, State, Tribal, and local administration including travel and transportation; off-post training, local exercises, and annual joint exercises; DHS/FEMA, State, Tribal, and local public outreach/education projects; and operations and maintenance of off-post alert and notification systems, automation systems, communications systems, Emergency Operations Centers, Joint Information Centers, coordinated plans, medical support capabilities, and protective action capabilities including emergency response. This budget request also provides funding for DHS/FEMA managed technical support for off-post emergency response capabilities and joint on-post/off-post exercises.

**Non-Stockpile Chemical Materiel Project (NSCMP):** The FY 2006 and FY 2007 budget requests provide for the following activities and the completion of Treaty mission requirements:

**Program Management:** The FY 2006 and FY 2007 budget requests include labor, awards and overtime; base support; other support and contractual costs which include travel, transportation, materials and supplies, equipment rentals; and matrix labor support from U.S. Army Research, Development and Engineering Command.

**Recovered Chemical Warfare Materiel:** The FY 2006 budget request consists of continuing destruction operations at Aberdeen Proving Grounds (APG); continuing CAIS destruction operations at Pine Bluff Arsenal (PBA); continuing destruction operations and waste management activities for PBEDS; completing the assessment of chemical warfare materiel at PBA; MMAS, RRS and EDS crew sustainment and training; and purchasing replacement equipment in support of MMAS and EDS. The FY 2007 budget request consists of continuing destruction operations at APG; continue CAIS destruction operations at PBA; completing destruction operations and waste management activities at PBEDS; completing BREA operations; MMAS, RRS and EDS crew sustainment and training; and purchasing replacement equipment in support of MMAS and EDS.

**Miscellaneous Chemical Warfare Materiel:** The FY 2006 budget request consists of continuing empty Ton Container decontamination operations and beginning cut and clean operations at Pine Bluff Arsenal (PBA); and continuing chemical sample operations. The FY 2007 budget request consists of completing empty Ton Container decontamination operations



**BUDGET ACTIVITY 1: OPERATION AND MAINTENANCE**

and continuing cut and clean operations at Pine Bluff Arsenal (PBA) and continuing chemical sample operations.

**Binary Chemical Warfare Materiel:** The FY 2006 budget request consists of completing the destruction of DF and QL in the MLRS facility at PBA.

**Former Production Facility:** The FY 2006 budget request consists of continuing demolition efforts and waste management activities for former production facilities at NECD and PBA and completing environmental permitting activities for former production facilities at Aberdeen Proving Ground.

The FY 2007 budget request consists of the completing demolition efforts and waste management activities for former production facilities at NECD and PBA and beginning demolition efforts for former production facilities at Aberdeen Proving Ground.

**Programmatic Support Activities:** The FY 2006 and FY 2007 budget requests consist of project management activities such as: public outreach; program integration; engineering support; information management; configuration management; procurement and contract evaluation support; logistics, treaty, knowledge management and medical support; regulatory requirements to support PEIS and NEPA documentation, and state regulatory review agencies; programmatic training; and programmatic support equipment such as multiple round containers for recovered chemical munitions.

**BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

(In Thousands of Dollars)

<b>FY 2007 Estimate</b>	<b>\$ 43,789</b>
<b>FY 2006 Estimate</b>	<b>\$ 47,786</b>
<b>FY 2005 Budget</b>	<b>\$205,209</b>
<b>FY 2004 Actual</b>	<b>\$251,881</b>

**Purpose and Scope**

This budget activity provides resources for the development and testing of technologies for the destruction of chemical munitions that are alternatives to the baseline incineration program and the design, acquisition and testing of prototype equipment for the recovery and treatment of the non-stockpile chemical materiel.

**Justification of Funds Required**

Funds are required for the Non-Stockpile Chemical Materiel Program (NSCMP) in FY 2006 and FY 2007 to continue research and development efforts for innovative accessing and chemical treatment processes technologies; complete site preparation, setup and systemization of PBEDS. Funds are also required for environmental monitoring support to perform studies, provide technical assistance for compliance with Army regulations, and modernizing equipment for future needs. Funds are required for the Assembled Chemical Weapons Alternatives (ACWA) program to close out the Pueblo and Blue Grass projects.

**BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

Title	FY 2004 Actual	FY 2005 Budget	FY 2006 Estimate	FY 2007 Estimate
Alternative Technologies and Approaches - Program Management	0	0	0	0
Alternative Technologies and Approaches -Mission Aberdeen Proving Ground, MD	0	0	0	0
Newport Chemical Depot, IN	38,343	0	0	0
<b>Subtotal Alternative Tech and Approaches</b>	<b>38,343</b>	<b>0</b>	<b>0</b>	<b>0</b>
Non-Stockpile Chemical Materiel Product- Recovered Chemical Warfare Materiel (CWM)	21,941	8,365	3,734	0
Miscellaneous CWM	0	0	0	0
Binary CWM	10,446	11,322	0	0
Program-Wide R&D	11,222	10,537	11,026	11,845
<b>Subtotal Non-Stockpile Chemical Materiel Product -</b>	<b>43,609</b>	<b>30,224</b>	<b>14,760</b>	<b>11,845</b>
Assembled Cml Weapons Assessment Program - Program Management	7,401	14,200	33,026	31,944
Pueblo, Co	114,872	54,941	0	0
Blue Grass, KY	47,656	105,844	0	0
<b>Subtotal Assembled Cml Weapons Assessment</b>	<b>169,929</b>	<b>174,985</b>	<b>33,026</b>	<b>31,944</b>
<b>Funded Total</b>	<b>251,881</b>	<b>205,209</b>	<b>47,786</b>	<b>43,789</b>

## **BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

### **B. DESCRIPTION OF ELEMENT:**

#### **Alternative Technologies and Approaches Project:**

This budget activity provides resources for research and development of alternatives to incineration for the disposal of bulk chemical agents. The Project Manager for Alternative Technologies and Approaches implemented a program including laboratory and bench-scale testing, pilot plant design, and preparation of environmental documentation for two low-temperature, low-pressure technologies, and facility construction to pilot test these alternative technologies. Subsequent to the September 11, 2001, terrorist attacks, the Program Manager for Alternative Technologies and Approaches initiated a proposal to accelerate stockpile destruction at Aberdeen and Newport in order to reduce risk to the public by eliminating the stockpile approximately two years ahead of schedule. Acquisition Decision Memorandums approving accelerated neutralization were signed on February 1, 2002 for Aberdeen and on May 11, 2002 for Newport. A simplified agent neutralization process followed by shipment to a permitted Treatment Storage and Disposal Facility for post-treatment is being implemented.

#### **Non-Stockpile Chemical Materiel Project:**

This budget activity includes costs for development of improved technologies for disposing of neutralized waste; secondary waste treatment partnering with industry; site preparation, setup and systemization of the Pine Bluff Explosive Destruction System (PBEDS); research efforts on multi-agent chemical air monitoring and decontamination methods; process equipment procurement and installation for binary operations; and developmental/operational testing of the Explosive Destruction System (EDS) Phase 2. The decreased funding requirements for this program reflect the completion of the R&D phase.

#### **Assembled Chemical Weapons Alternatives Program:**

This budget activity includes all costs related to design; equipment, testing, and costs for operation and closure of two full-scale pilot facilities, the Pueblo Chemical Agent-Destruction Pilot Plant and the Blue Grass Chemical Agent-Destruction Pilot Plant. The budget activity also provides for the preparation of the necessary environmental documentation to support construction and operation of the two pilot

## **BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

facilities, as well as, public outreach and technical risk reduction initiatives. Costs for design and construction of facilities are included in the Chemical Demilitarization Construction, Defense account.

### **C. PROGRAM ACCOMPLISHMENTS AND PLANS:**

#### **FY 2004 Program:**

##### **Alternative Technologies and Approaches Project:**

Newport Disposal Facility: FY 2004 funds were required for systems contractor activities to include systems engineering/project management; process design; systemization activities and logistics support; procurement of bulk materials and equipment; installation of the process equipment and bulk material; and non-systems contractor support such as field office, technical support/contractor support, depot support, and other government agency support.

##### **Assembled Chemical Weapons Alternatives Program:**

Program Management: FY 2004 funds were used for ACWA Program Office salaries for 12 core work years and 9 matrix personnel, supplies, materials and equipment, travel and training; program integration and support from other government agencies; contract management and technical support; and mission support contracts.

Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP): FY 2004 funds were used for continuation of the design effort by the system contractor; depot support; environmental permitting activities and other mission support.

Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP): FY 2004 funds were used for preparation of preliminary process design package and initial design and preparation of Research, Development and Demonstration (RD&D) permit application; technical risk reduction program testing and studies; and program management and other government agencies support.

## **BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

### **Non-Stockpile Chemical Materiel Product:**

Recovered Chemical Warfare Materiel: FY 2004 funds were required to complete developmental/operational testing of the Explosive Destruction System (EDS) Phase 2, development and testing of the CO2 Blaster, and planning efforts for the Pine Bluff Explosive Destruction System (PBEDS).

Binary: FY 2004 funds were required to begin/complete process equipment component procurement and completed design for the binary mission at Pine Bluff Arsenal (PBA).

Program-Wide: FY 2004 funds were required for research and development studies and program support. These include efforts to identify and develop alternative technologies for the treatment of non-stockpile chemical warfare materiel; continue efforts pertaining to decontamination research and air monitoring studies; Tennessee Valley Authority (TVA) technical support and services; and Army Materiel Systems Analysis Activity (AMSAA) test and evaluation support.

### **FY 2005 Program:**

### **Non-Stockpile Chemical Materiel Project:**

Recovered Chemical Warfare Materiel: FY 2005 funds are required for the Pine Bluff Explosive Destruction System (PBEDS) site preparation, setup and systemization.

Binary: FY 2005 funds are required to begin/complete facility modifications, equipment installation and systemization for the binary mission at Pine Bluff Arsenal (PBA).

Program-Wide: FY 2005 funds are required for research and development studies and program support. These include efforts to identify and develop alternative technologies for the treatment of non-stockpile chemical warfare materiel; continue efforts pertaining to decontamination research and air monitoring studies; Tennessee Valley Authority (TVA) technical support and services; and Army Materiel Systems Analysis Activity (AMSAA) system test and evaluation support.

## **BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

### **Assembled Chemical Weapons Alternatives Program:**

Program Management: Funds will be used for ACWA Program Office salaries for 16 core work years and 6 matrix personnel, supplies, materials and equipment, travel and training; and other government agencies and mission support contracts.

Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP): Funds will be used to continue trade studies to determine an optimal design that is safe, technically executable, and cost-effective.

Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP): Funds will be used to continue and complete the intermediate design package for the Blue Grass project, and continue the environmental assessment for the siting of the facility.

### **FY 2006 Program:**

#### **Non-Stockpile Chemical Materiel Project:**

Recovered Chemical Warfare Materiel: FY 2006 funds are required for the completing site preparation, setup and systemization and beginning destruction operations for Pine Bluff Explosive Destruction System (PBEDS).

Program-Wide: FY 2006 funds are required for research and development studies and program support. These include efforts to identify and develop alternative technologies for the treatment of non-stockpile chemical warfare materiel; continue efforts pertaining to decontamination research and air monitoring studies; Tennessee Valley Authority (TVA) technical support and services; and Army Materiel Systems Analysis Activity (AMSAA) system test and evaluation support.

### **Assembled Chemical Weapons Alternatives Program:**

## **BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

Program Management: Funds will be used for ACWA Program Office salaries for 16 core work years and 6 matrix personnel, supplies, materials and equipment, travel and training; and other government agencies and mission support contracts.

Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP): Funds appropriated in FY 2005 will be used in FY 2006 to complete the evaluation of trade studies and alternatives, which will be used to determine an optimal design that is safe, technically executable and cost-effective, and to develop plans to execute the path forward decision issued in FY 2005.

Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP): Funds appropriated in FY 2005 will be used in FY 2006 to complete the assessment of the current design and alternatives, and to develop plans to execute the path forward decision issued in FY 2005.

### **FY 2007 Program:**

#### **Non-Stockpile Chemical Materiel Project:**

Program-Wide R&D: FY 2007 funds are required for research and development studies and program support. These include efforts to identify and develop alternative technologies for the treatment of non-stockpile chemical warfare materiel; continue efforts pertaining to decontamination research and air monitoring studies; Tennessee Valley Authority (TVA) technical support and services; and Army Materiel Systems Analysis Activity (AMSAA) system test and evaluation support.

#### **Assembled Chemical Weapons Alternatives Program:**



## **BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

Program Management: Funds will be used for ACWA Program Office salaries for 16 core work years and 6 matrix personnel, supplies, materials and equipment, travel and training; and for other government agencies and mission support contracts. Funds will also be used to initiate any required systems contract modifications to execute the Department's path forward decision.

### **D. WORK PERFORMED BY:**

The Project Manager for Alternative Technologies and Approaches is located at Aberdeen Proving Ground, Maryland, and is the government's technical organization involved with research and development of alternative technologies to incineration for the disposal of bulk chemical agents. Neutralization of nerve agent (VX) will be performed at Newport Chemical Depot, Indiana by Parsons Infrastructure and Technology. The Project Manager for Non-Stockpile Chemical Materiel is located at Aberdeen Proving Ground, Maryland, and is the government's technical organization involved with the destruction of the non-stockpile chemical materiel. Primary contractors or government agencies executing non-stockpile products are: Science Applications International Corporation, Abingdon, MD; Tennessee Valley Authority, Muscle Shoals, AL; Teledyne Brown Engineering, Huntsville, AL; UXB International, Ashburn, VA; Sandia National Laboratory, Albuquerque, NM; Idaho National Laboratory, Boise, ID; Shaw Environmental, Inc., Boston, MA; Mason & Hangar, Newport, IN; and others. The Program Manager for Assembled Chemical Weapons Alternatives is located at Aberdeen Proving Ground, Maryland, and is the government's technical organization involved with the implementation of alternatives to the baseline incineration process for the demilitarization of chemical munitions. A contract to design, build, test and operate a pilot facility based on neutralization followed by bio-treatment at Pueblo Chemical Depot, Colorado was awarded to the Bechtel Pueblo Team in 2002. A contract to design, build, test and operate a pilot facility based on neutralization followed by supercritical water oxidation at Blue Grass Army Depot, Kentucky was awarded to the Bechtel Parsons Blue Grass Team in 2003.

### **E. RELATED ACTIVITIES:**

## **BUDGET ACTIVITY 2: RESEARCH AND DEVELOPMENT**

No unnecessary duplication of effort will occur within the Department of Defense (DoD) or the Army. Large-scale destruction of toxic chemical agents and munitions is solely the responsibility of DoD. The U.S. Army is the Executive Agent for the Chemical Demilitarization Program as designated by Office of the Secretary of Defense (OSD).

### **F. OTHER APPROPRIATION FUNDS:**

#### **Non-Stockpile Chemical Materiel Project:**

Procurement funds in the Chemical Agents and Munitions Destruction, Defense appropriation funds are required in FY 2006 and FY 2007 for Recovered Chemical Warfare Materiel replacement equipment. Operation and Maintenance FY 2006 and FY 2007 funds in the Chemical Agents and Munitions Destruction, Defense appropriation funds will be used to operate additional treatment systems once fielded. There are no other funds related to the Non-Stockpile Chemical Materiel Project (NSCMP) research and development effort.

**BUDGET ACTIVITY 3: PROCUREMENT**

(In Thousands of Dollars)

<b>FY 2007 Estimate</b>	<b>\$108,726</b>
<b>FY 2006 Estimate</b>	<b>\$116,527</b>
<b>FY 2005 Budget</b>	<b>\$ 78,980</b>
<b>FY 2004 Actual</b>	<b>\$ 79,212</b>

**Purpose and Scope**

This budget activity provides for the procurement of all process and support equipment used in the incineration disposal facilities for destroying the unitary chemical stockpile and the Chemical Stockpile Emergency Preparedness Project equipment. It includes costs for design, acquisition, fabrication, and installation of equipment. Also included are costs for initial spare parts, freight, software, maintenance, and operations manuals relating to specific equipment and design changes during construction and installation.

**Justification of Funds Required**

The FY 2006-2007 budget request provides for engineering and technical services; equipment procurement and installation in support of agent operations and closure at Tooele Chemical Agent Disposal Facility; design engineering and procurement of equipment in support of agent operations at Pine Bluff Chemical Agent Disposal Facility, Anniston Chemical Agent Disposal Facility, and Umatilla Chemical Agent Disposal Facility; acquisition of Chemical Stockpile Emergency Preparedness Project equipment and protective actions projects; and acquisition of additional systems and replacement parts for Non-Stockpile Chemical Materiel Project (NSCMP).

**BUDGET ACTIVITY 3: PROCUREMENT**

	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
	<b>Actual</b>	<b>Budget</b>	<b>Estimate</b>	<b>Estimate</b>
Engineering Services	14,563	1,171	1,042	11,055
Johnston Atoll Chemical Agent Disposal System	0	0	0	0
Chemical Agent Munitions Disposal System	0	2,957	500	0
Tooele Chemical Agent Disposal Facility	25,917	16,453	20,520	16,665
Anniston Chemical Agent Disposal Facility	4,257	8,215	18,212	11,753
Umatilla Chemical Agent Disposal Facility	779	6,012	10,313	18,283
Pine Bluff Chemical Agent Disposal Facility	625	6,012	9,152	4,918
Pueblo Chemical Agent Disposal Facility	0	0	0	0
Blue Grass Chemical Agent Disposal Facility	0	0	0	0
<b>Subtotal Chemical Stockpile Disposal</b>	<b>46,141</b>	<b>40,820</b>	<b>59,739</b>	<b>62,674</b>
Cml Stockpile Emergency Preparedness Project On-Post	2,038	0	0	0
Cml Stockpile Emergency Preparedness Project Off-Post	30,513	37,136	32,783	36,264
<b>Subtotal Cml Stockpile Emer Preparedness Project</b>	<b>32,551</b>	<b>37,136</b>	<b>32,783</b>	<b>36,264</b>
Non-Stockpile Chemical Materiel Product- Recovered Chemical Warfare Materiel	520	1,024	24,005	9,788
Former Production Facilities				
<b>Subtotal Non-Stockpile Chemical Materiel Product</b>	<b>520</b>	<b>1,024</b>	<b>24,005</b>	<b>9,788</b>
<b>Total Funded</b>	<b>79,212</b>	<b>78,980</b>	<b>116,527</b>	<b>108,726</b>

### **BUDGET ACTIVITY 3: PROCUREMENT**

**Engineering Services:** In FY 2006 and FY 2007 budget request, funds are required for safety and operational improvements for all operational facilities. Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements.

**Chemical Agent Munitions Disposal System (CAMDS):** In FY 2006 budget request, funds are required to purchase closure equipment in support of the CAMDS mission.

**Tooele Chemical Agent Disposal Facility (TOCDF):** In FY 2006 budget request, funds are required for systems contractor to complete installation of the Mustard Treatment System. In order to decrease risk associated with TOCDF Mustard Strategy, additional equipment is required to support a dual-path effort. Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements. In FY 2007 budget request, funds are required for engineering change proposals and equipment upgrades as well as equipment in support of the Required Project Modifications effort. Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements.

**Anniston Chemical Agent Disposal Facility (ANCDF):** In FY 2006 and FY 2007 budget request, funds are required for engineering change proposals and equipment upgrades as well as equipment in support of the Required Project Modifications effort. Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements.

**Umatilla Chemical Agent Disposal Facility (UMCDF):** In FY 2006 and FY 2007 budget request, funds are required for engineering change proposals and equipment upgrades as well as equipment in support of the Required Project Modifications effort. Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements.

**Pine Bluff Chemical Agent Disposal Facility (PBCDF):** In FY 2006 and FY 2007 budget request, funds are required for engineering change proposals and equipment upgrades as well as equipment in support of the Required Project Modifications effort. Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements.

**Chemical Stockpile Emergency Preparedness Project (CSEPP) Off-Post:** In FY 2006, funds will provide for the replacement of obsolete/non-supportable emergency response equipment.

**BUDGET ACTIVITY 3: PROCUREMENT**

Equipment replacement includes equipment for Emergency Operations Centers, protective actions support, alert and notification systems, data automation systems, and communications systems. In FY 2007, funds will provide for the replacement of obsolete/non-supportable emergency response equipment and for additional protective actions projects. Equipment replacement includes equipment for medical support, protective actions support, alert and notification systems, data automation systems, and communications systems.

**Non-Stockpile Chemical Materiel Project (NSCMP)**

**Recovered Chemical Warfare Materiel:** The FY 2006 budget request includes procurement of two EDS Phase 2 units and one RRS unit; replacement equipment for the EDS; and equipment acquisition and installation for process improvements to the Munitions Assessment and Processing System (MAPS). Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements.

**Recovered Chemical Warfare Materiel:** The FY 2007 budget request includes procurement of one EDS Phase 2 unit; replacement equipment for the EDS; and equipment acquisition and installation for process improvements to the Munitions Assessment and Processing System (MAPS). Refer to Exhibit P-5A (Procurement History and Planning) for further delineation/description of requirements.

**BUDGET ACTIVITY 3: PROCUREMENT**

Procurement/Budget Activity 3				Chemical Demilitarization Process Equipment				
	FY 04	FY 05	FY 06	FY 07				
QUANTITY								
COST (IN MILLIONS)	79.2	79.0	116.5	108.8				
<p><b>DESCRIPTION:</b></p> <p>This budget activity provides for the design, fabrication, purchase and installation of all process and support equipment used in the incineration disposal facilities for destroying the unitary chemical agent stockpile. This budget activity also provides for the purchase of equipment and services to support the Chemical Stockpile Emergency Preparedness Project and the Non-Stockpile Chemical Materiel Product.</p> <p><b>JUSTIFICATION:</b></p> <p>The FY 2006 budget request procures the following requirements: safety and operational improvements for all operating facilities, mustard treatment equipment and associated support equipment at Tooele Chemical Disposal Facility, and future engineering change proposals as well as equipment upgrades at Anniston Chemical Disposal Facility, Umatilla Chemical Disposal Facility and Pine Bluff Chemical Disposal Facility. FY 2006 also procures replacements of obsolete/non-supportable off-post emergency response equipment for the Chemical Emergency Preparedness Project including equipment for emergency operations centers, protective actions support, alert and notification systems, data automations systems and communications systems. FY 2006 also procures equipment, equipment installation, replacement equipment and preplanned product improvements for the Non-Stockpile Chemical Materiel Product.</p> <p>The FY 2007 budget request procures the following requirements: safety and operational improvements for all operating facilities, closure equipment and associated support equipment at Toole Chemical Disposal Facility, future engineering change proposals, equipment upgrades and Required Project Modifications (RPM) as identified by the Project at Anniston Chemical Disposal Facility, Umatilla Chemical Disposal Facility and Pine Bluff Chemical Disposal Facility. FY 2007 also provides for the replacement of obsolete/non-supportable emergency response equipment for the Chemical Emergency Preparedness Project including equipment for medical support, protective actions support, alert and notification systems, data automation systems and communications systems. FY 2007 also provides for replacement equipment and preplanned product improvements for the Non-Stockpile Chemical Materiel Product.</p>								
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**BUDGET ACTIVITY 3: PROCUREMENT**

UNCLASSIFIED									
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092						WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE January-05	
APPROPRIATION /BUDGET ACTIVITY Procurement/Budget Activity 3				P-1 ITEM NOMENCLATURE Chemical Demilitarization Equipment					
MANUFACTURER NAME				WEAPON MODEL/SERIES/POPULAR NAME Chemical Demilitarization Equipment					
Weapon System Cost Elements	IDENT CODE	TOTAL COST IN THOUSANDS OF DOLLARS							
		FY04 UNIT COST	Quantity TOTAL COST	FY05 UNIT COST	Quantity TOTAL COST	FY06 UNIT COST	Quantity TOTAL COST	FY07 UNIT COST	Quantity TOTAL COST
1. Engineering Services	N/A		14,679		1,110		1,042		11,055
2. Johnston Atoll Cml Agent Disposal System	N/A		0		0		0		0
3. Chemical Agents and Munitions Disposal Facility	N/A				2,957		500		0
4. Tooele Chemical Agent Disposal Facility	N/A		25,917		16,514		20,520		16,665
5. Anniston Chemical Agent Disposal Facility	N/A		4,257		8,215		18,212		11,753
6. Umatilla Chemical Agent Disposal Facility	N/A		779		6,012		10,313		18,283
7. Pine Bluff Chemical Agent Disposal Facility	N/A		509		6,012		9,152		4,918
Sub/Total Chemical Stockpile Disposal			46,141		40,820		59,739		62,674
10. Chemical Stockpile Emergency Preparedness Project On-Post	N/A		2,038		0		0		0
11. Chemical Stockpile Emergency Preparedness Project Off-Post	N/A		30,513		37,136		32,783		36,264
12. Non-Stockpile Chemical Materiel Product	N/A		520		1,024		24,005		9,788
TOTAL			79,212		78,980		116,527		108,726



BUDGET ACTIVITY 3: PROCUREMENT				UNCLASSIFIED						
REPORTS CONTROL SYMBOL										
DD-COMP(AR) 1092				BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT			DATE January-05			
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE						
Procurement/Budget Activity 3				Chemical Demilitarization Equipment						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
Tooele Chemical Agent Disposal Facility										
Construction, Equipment and Operations Contract 1)										
	EG&G Inc.	C/CPAF	USAFSC		N/A	N/A				
FY 2004				Dec 03			25,917			
FY 2005				Dec 04			16,514			
FY 2006							20,520			
FY 2007							16,665			
<u>Total</u>										
FY 2004							25,917			
FY 2005							16,514			
FY 2006							20,520			
FY 2007							16,665			
REMARKS										
1) FY06 and FY07 procure plant and equipment modifications to complete installation of the Mustard Treatment System and begin procurement of closure equipment and associated support equipment.										
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ITEM NO										

**BUDGET ACTIVITY 3: PROCUREMENT**

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT</b>	DATE January-05
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APPROPRIATION /BUDGET ACTIVITY  Procurement/Budget Activity 3	P-1 ITEM NOMENCLATURE  Chemical Demilitarization Equipment
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COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
Anniston Chemical Agent Disposal Facility Construction, Equipment and Operations Contract 1)										
		C/FFP			N/A	N/A				
FY 2004	Westinghouse Anniston		USAFSC	Jun 04			4,257			
FY 2005				Jun 05			8,215			
FY 2006							18,212			
FY 2007							11,753			
<u>Total</u>										
FY 2004							4,257			
FY 2005							8,215			
FY 2006							18,212			
FY 2007							11,753			

REMARKS  
1) FY06 and FY 07 procures plant and equipment modifications for engineering change proposals and equipment upgrades as well as Required Project Modifications.

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**BUDGET ACTIVITY 3: PROCUREMENT**

UNCLASSIFIED				UNCLASSIFIED						
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092			<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT</b>				DATE January-05			
APPROPRIATION /BUDGET ACTIVITY Procurement/Budget Activity 3			P-1 ITEM NOMENCLATURE Chemical Demilitarization Equipment							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
Umatilla Chemical Agent Disposal Facility Construction, Equipment and Operations Contract 1)										
FY 2004 FY 2005 FY 2006 FY 2007	Washington Demilitarization Company	C/FFP	USAFSC	Jun 04 Jun 05	N/A	N/A	779 6,012 10,313 18,283			
<u>Total</u>										
FY 2004 FY 2005 FY 2006 FY 2007							779 6,012 10,313 18,283			
REMARKS 1) FY06 and FY 07 procures plant and equipment modifications for engineering change proposals and equipment upgrades as well as Required Project Modifications ( e.g.. Mercury Filtration, HD/HT Characterization, Mustard Conditioning (Heating System), Mercury CEMS COTS Evaluation, Ton Container Rinseout Neutralization, Mobile Thermal Processing and Hydrogen Ton Container Pressure Relief, Metal Parts Discharge Air Lock secondary waste processing monitor issue, On-site metals analysis ICP-MS, Brine metal removal and CONR Support/Maintenance). Award dates will be in the May/Jun timeframe.										
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**BUDGET ACTIVITY 3: PROCUREMENT**

UNCLASSIFIED				UNCLASSIFIED							
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092			<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT</b>					DATE		January-05	
APPROPRIATION /BUDGET ACTIVITY Procurement/Budget Activity 3				P-1 ITEM NOMENCLATURE Chemical Demilitarization Equipment							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
<u>Pine Bluff Chemical Agent Disposal Facility</u>											
<u>Process Design 1)</u>											
FY 2004 FY 2005 FY 2006 FY 2007	Parsons Infrastructure and Technology Group	A/E/CPFF	USACEHND	Dec 03	N/A	N/A	509				
<u>Construction, Equipment and Operations Contract 2)</u>											
FY 2004 FY 2005 FY 2006 FY 2007	Washington Demilitarization Company	C/CPFF/FFP	USACEHND USAFSC	Dec 03 Dec 04	N/A	N/A	6,012 9,152 4,918				
<u>Total</u>											
FY 2004 FY 2005 FY 2006 FY 2007							509 6,012 9,152 4,918				
REMARKS											
1) FY06 and FY 07 procures plant and equipment modifications for engineering change proposals and equipment upgrades as well as Required Project Modifications (e.g. Mustard Strategy Implementation, Hdyrogen Ton Container Pressure Relief, Metal Parts Furnal Discharge Air Lock secondary waste processing monitor issue, Mobile Thermal Processing and CONR Support/Maintenance) Award dates will be in the May/Jun timeframe.											
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**BUDGET ACTIVITY 3: PROCUREMENT**

UNCLASSIFIED				DATE						
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092			<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT</b>				January-05			
APPROPRIATION /BUDGET ACTIVITY Procurement/Budget Activity 3			P-1 ITEM NOMENCLATURE Chemical Demilitarization Equipment							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
Non-Stockpile Chemical Materiel Product										
Mission Area: Recovered Chemical Warfare Materiel										
<u>Rapid Response System (RRS) (1)</u>										
FY 2004	AED	C/CPFF	USAFSC	Oct 05	N/A	N/A	0			
FY 2005							0			
FY 2006							3983			
FY 2007							0			
<u>Explosive Destruction System (2)</u>										
FY 2004	Unknown	C/CPFF		Oct 05	N/A	N/A	0			
FY 2005							0			
FY 2006							18573			
FY 2007							9176			
Total										
REMARKS										
1) This requirement is for the procurement of one RRS unit.										
2) These requirements are for the procurement of two EDS Phase 2 units in FY06 and one EDS Phase 2 unit in FY07.										
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**BUDGET ACTIVITY 3: PROCUREMENT**

REPORTS CONTROL SYMBOL				UNCLASSIFIED				DATE			
DD-COMP(AR) 1092				<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT</b>				January-05			
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE							
Procurement/Budget Activity 3				Chemical Demilitarization Equipment							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
<u>Non-Stockpile Chemical Materiel Product</u>											
<u>Mission Area: Recovered Chemical Warfare Materiel</u>											
<u>Recovered Chemical Warfare Materiel - Explosive Destruction System (3)</u>											
FY 2004	Sandia National Laboratory	C/CPFF	DOE	Dec 03	N/A	N/A	520				
FY 2005				Dec 04			258				
FY 2006				Dec 05			459				
FY 2007				Dec 06			233				
<u>Recovered Chemical Warfare Materiel - Munitions Assessment and Processing System (4)</u>											
FY 2004	Unknowwn	C/CPFF	USAFSC		N/A	N/A	0				
FY 2005				Dec 04			766				
FY 2006				Dec 05			990				
FY 2007				Dec 06			378				
<b>Total</b>											
<b>FY 2004</b>							<b>520</b>				
<b>FY 2005</b>							<b>1,024</b>				
<b>FY 2006</b>							<b>24,005</b>				
<b>FY 2007</b>							<b>9,788</b>				
REMARKS											
3) These requirements are for procurement of EDS replacement vessel(s).											
4) These requirements are for MAPS pre-planned product improvement (to include hardware upgrades, etc.)											
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