

1. COMPONENT <b>ARMY</b>		FY 2005 <b>MILITARY CONSTRUCTION PROJECT DATA</b>			2. DATE 04 FEB 2004	
3. INSTALLATION AND LOCATION Pueblo Depot Activity Colorado			4. PROJECT TITLE Ammunition Demilitarization Facility Ph VI			
5. PROGRAM ELEMENT 78007A		6. CATEGORY CODE 216	7. PROJECT NUMBER 57496		8. PROJECT COST (\$000) Auth Approp 44,792	
9. COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
<u>PRIMARY FACILITY</u>					282,803	
Energetics Process Bldg (EPB)		SF	70,000	809.00	(56,630)	
Corridor - EPB/APB (CEA)		SF	5,000	404.50	(2,023)	
Agent Process Bldg (APB)		SF	200,000	762.92	(152,584)	
Corridor - APB/CB (CAC)		SF	2,000	404.50	(809)	
Control Bldg (CB)		SF	20,000	663.59	(13,272)	
Total from Continuation page					(57,485)	
<u>SUPPORTING FACILITIES</u>					85,941	
Electric Service		LS	--	--	(23,039)	
Water, Sewer, Gas		LS	--	--	(15,443)	
Paving, Walks, Curbs And Gutters		LS	--	--	(23,690)	
Storm Drainage		LS	--	--	(4,568)	
Site Imp(12,915) Demo( )		LS	--	--	(12,915)	
Information Systems		LS	--	--	(6,286)	
ESTIMATED CONTRACT COST					368,744	
CONTINGENCY PERCENT (5.00%)					<u>18,437</u>	
SUBTOTAL					387,181	
SUPERVISION, INSPECTION & OVERHEAD (5.70%)					22,069	
DESIGN/BUILD - DESIGN COST					<u>57,535</u>	
TOTAL REQUEST					466,785	
TOTAL REQUEST (ROUNDED)					467,000	
INSTALLED EQT-OTHER APPROPRIATIONS					(448,400)	
10. Description of Proposed Construction Construct a Chemical Stockpile Disposal Program (CSDP) facility using incremental appropriations. This request is for Increment VI (\$44.792 million). Increment I (Project Number (PN) 17700, (\$203.5 million in authorization)) was approved in FY 1997 and FY 2000, Increment II (PN 40658, \$10.7 million) was approved in FY 2001, Increment III (PN 47261, \$11.0 million) was approved in FY 2002, Increment IV (PN 47846, \$38.0 million) was approved in FY 2003, and Increment V (PN 51026, \$88.388 million) was approved in FY 2004. Increment VII (\$195.02 million) is planned for the FY 2006 budget and Increment VIII (\$79.1 million) is planned for the FY 07 budget. This project, at full authorization, will provide for the design and construction of a toxic chemical munitions demilitarization (Demil) complex based on the Neutralization followed by Biotreatment Process approved in the Acquisition Decision Memorandum dated 16 Jul 02. Work includes an energetics processing building with blast containment, an agent processing building, a control building, a process auxiliary building, munitions storage building, a personnel and maintenance facility with change rooms, a utility building, maintenance storage, and a medical treatment area; a process support and administrative building; a chemical analysis laboratory; and an entry control facility. Special features include blast doors, fire protection, a						

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3. INSTALLATION AND LOCATION  
Pueblo Depot Activity, Colorado

4. PROJECT TITLE Ammunition Demilitarization Facility Ph VI	5. PROJECT NUMBER 57496
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9. COST ESTIMATES (CONTINUED)

Item	U/M	QTY	Unit COST	Cost (\$000)
<u>PRIMARY FACILITY (CONTINUED)</u>				
Process Auxiliary Bldg (PAB)	SF	30,000	380.72	(11,422)
Munitions Demil Filter Area (FIL)	SF	10,000	55.57	(556)
Utility Building (UB)	SF	15,000	411.52	(6,173)
Biotreatment Area (BTA)	SF	24,000	55.57	(1,334)
Munitions Storage Bldg (MSB)	SF	15,000	251.13	(3,767)
Standby Diesel Generator Bldg (SDB)	SF	5,000	55.57	(278)
Personnel & Maintenance Bldg (PMB)	SF	60,000	273.53	(16,412)
Personnel Support Building (PSB)	SF	40,500	69.39	(2,810)
Entry Control Facility (ECF)	SF	1,000	925.78	(926)
Lab (LAB)	SF	10,000	726.57	(7,266)
Lab Filter Area (LFA)	SF	500	55.57	(28)
Warehouse - Inside Fence (WIF)	SF	10,000	79.84	(798)
Warehouse - Outside Fence (WOF)	SF	10,000	79.84	(798)
Waste Storgae Bldg (WSB)	SF	10,000	79.84	(798)
Misc Site Storage Bldgs & Areas	SF	10,000	55.57	(556)
IDS Installation	LS	--	--	(3,176)
Building Information Systems	LS	--	--	(387)
			Total	57,485

DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED)

cascading heating, ventilation, air conditioning (HVAC) system with airlocks for agent containment, special air filtration, special personnel protective clothing area, toxic chemical resistive coatings and surfaces, and explosion-proof electrical fixtures. Install an intrusion detection system (IDS). Supporting facilities include utilities; electric service with an electrical substation; standby electric generators; security fencing and lighting; paving and surfacing, walks, curbs and gutters; storm drainage; information systems; and site improvements. Heating will be provided by a central system; air conditioning (500 tons) will be provided by self-contained units.

11. REQ: NONE ADQT: NONE SUBSTD: NONE

PROJECT: Design and construct a toxic chemical agent munitions demilitarization facility based on Neutralization followed by Biodegradation technology. (New Mission)

REQUIREMENT: This project is required to provide the capability to demilitarize and dispose of the toxic chemical agents and munitions stored at Pueblo Depot Activity in a safe, environmentally acceptable manner. Congress has mandated the disposal of the existing unitary chemical stockpile and the Army has submitted an implementation plan which cites this facility as an

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3. INSTALLATION AND LOCATION  
  
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4. PROJECT TITLE  Ammunition Demilitarization Facility Ph VI	5. PROJECT NUMBER  57496
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REQUIREMENT:    (CONTINUED)  
integral and essential part of the chemical stockpile disposal program.  
CURRENT SITUATION:    Projectiles containing lethal chemical agents are stored in igloos at the installation and some currently exhibit an accelerated rate of deterioration. These munitions are of no strategic value, but they must be safely stored and inspected to ensure that there is no risk to the public or the environment. The monitoring and surveillance costs for safe storage continue to accrue. No other acceptable disposal facilities are available.  
IMPACT IF NOT PROVIDED:    If this project is not provided, the Army will not be able to comply with the Congressional mandate for chemical munitions stockpile disposal. Also, maintenance and surveillance costs will continue to grow as the agents and munitions deteriorate with age. The threat to the health of Depot employees and the environment will continue.  
ADDITIONAL:    This project has been coordinated with the installation physical security plan, and all required physical security measures are included. No anti-terrorism/force protection measures are required. This project is mandated by Congress and is exempt from preparation of an economic analysis.  
JOINT USE CERTIFICATION:    The Deputy Assistant Secretary of the Army (Installations and Housing) certifies that this project has been considered for joint use potential. This facility will be available for use by other components. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

- (a) Date Design Started..... JAN 2003
- (b) Percent Complete As Of January 2004..... 35.00
- (c) Date 35% Designed..... JAN 2004
- (d) Date Design Complete..... JUL 2005
- (e) Parametric Cost Estimating Used to Develop Costs YES
- (f) Type of Design Contract:    Design-build

(2) Basis:

- (a) Standard or Definitive Design:    NO

(3) Total Design Cost (c) = (a)+(b) OR (d)+(e):    (\$000)

- (a) Production of Plans and Specifications..... 509
- (b) All Other Design Costs..... 1,096
- (c) Total Design Cost..... 1,605
- (d) Contract..... 479
- (e) In-house..... 1,126

(4) Construction Contract Award..... SEP 2002

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3. INSTALLATION AND LOCATION  
Pueblo Depot Activity, Colorado

4. PROJECT TITLE Ammunition Demilitarization Facility Ph VI	5. PROJECT NUMBER 57496
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12. SUPPLEMENTAL DATA: (Continued)  
 A. Estimated Design Data: (Continued)  
 (5) Construction Start..... JUN 2004  
 (6) Construction Completion..... APR 2007

B. Equipment associated with this project which will be provided from other appropriations:

<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated Or Requested</u>	<u>Cost (\$000)</u>
Process Equipment	CAMD	2004	16,500
Process Equipment	CAMD	2005	163,200
Process Equipment	CAMD	2006	172,300
Process Equipment	CAMD	2007	96,400
		TOTAL	448,400

1. COMPONENT <b>ARMY</b>		FY 2005 <b>MILITARY CONSTRUCTION PROJECT DATA</b>			2. DATE 04 FEB 2004	
3. INSTALLATION AND LOCATION Blue Grass Army Depot Kentucky			4. PROJECT TITLE Ammunition Demilitarization Fac Ph-V			
5. PROGRAM ELEMENT 78007A		6. CATEGORY CODE 216	7. PROJECT NUMBER 51027		8. PROJECT COST (\$000) Auth Approp      37,094	
9. COST ESTIMATES						
ITEM			U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITY</u>						103,597
Munition Demil Building			SF	97,454	515.44	(50,233)
Container Handling Building			SF	34,190	327.90	(11,211)
SCWO Building			SF	39,000	365.03	(14,236)
Process & Utility Building			SF	15,783	292.74	(4,620)
Personnel Maintenance Building			SF	18,680	231.50	(4,324)
Total from Continuation page						(18,973)
<u>SUPPORTING FACILITIES</u>						32,047
Electric Service			LS	--	--	(11,675)
Water, Sewer, Gas			LS	--	--	(4,909)
Paving, Walks, Curbs And Gutters			LS	--	--	(6,187)
Storm Drainage			LS	--	--	(852)
Site Imp( 5,196) Demo(            )			LS	--	--	(5,196)
Information Systems			LS	--	--	(3,228)
ESTIMATED CONTRACT COST						135,644
CONTINGENCY PERCENT (5.00%)						<u>6,782</u>
SUBTOTAL						142,426
SUPERVISION, INSPECTION & OVERHEAD (5.70%)						8,118
DESIGN/BUILD - DESIGN COST						<u>41,660</u>
TOTAL REQUEST						192,204
TOTAL REQUEST (ROUNDED)						192,000
INSTALLED EQT-OTHER APPROPRIATIONS						(164,100)
10. Description of Proposed Construction      Construct a Chemical Stockpile Disposal Program (CSDP) facility using incremental appropriations which are split over more than one fiscal year. This request is for Increment V (\$37.094 million). Increment I (Project Number (PN) 21994 (\$195.8 million, in authorization)) was approved in FY 2000, Increment II (PN 40845, \$3.0 million) was approved in FY 2002, Increment III (PN 47847, \$10.3 million) was approved in FY 2003 and Increment IV (PN 50552, \$16.22 million) was approved in FY 2004. Increment VI (\$55.231 million) is planned for the FY 2006, Increment VII (\$56.331 million) is planned for FY 2007, Increment VIII (\$13.054 million) is planned for the FY 2008, and Increment IX (\$0.975 million) is planned for the FY 2009. This project, at full authorization and appropriation will provide for the design/build, cost-plus execution for design and construction of facilities for a full scale pilot plant to demonstrate compliant process capabilities for the chemical agent munitions stockpile destruction via a neutralization followed by super critical water oxidation (SCWO) hydrolysate treatment. Construction of facilities anticipates the following facilities: Munitions Demilitarization Building, Process and Utility Building, Container Handling Building, Personnel & Maintenance Building, Entry Control Facility, Chemical Laboratory, Personnel Support Building, Administrative Support Building,						

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3. INSTALLATION AND LOCATION  
  
Blue Grass Army Depot, Kentucky

4. PROJECT TITLE  Ammunition Demilitarization Fac Ph-V	5. PROJECT NUMBER  51027
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9. COST ESTIMATES (CONTINUED)

<u>Item</u>	<u>U/M</u>	<u>QTY</u>	<u>Unit COST</u>	<u>Cost (\$000)</u>
<u>PRIMARY FACILITY (CONTINUED)</u>				
Personnel Support Building	SF	40,500	65.25	(2,643)
Entry Control Facility	SF	1,340	631.10	(846)
Laboratory Building	SF	9,475	538.88	(5,106)
Exterior Storage Building	SF	6,000	103.75	(623)
Treaty Compliance Facility	SF	3,032	482.75	(1,464)
Warehouse	SF	28,000	38.25	(1,071)
MDB - Main Filter Area	EA	1	1805000	(1,805)
Standby Diesel Generator Area (Slab Only)	SF	500	30.00	(15)
Vehicle Storage Bldg (VSB)	SF	11,744	150.25	(1,765)
Misc Site Storage Areas and Bldgs	SF	20,000	36.60	(732)
IDS Installation	LS	--	--	(1,715)
Building Information Systems	LS	--	--	(1,188)
			Total	18,973

DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED)

Filter Facility, Warehouse, Treaty Compliance Facility, Guard House, Storage Tank Building, SCWO Building, and Vehicle Storage Building. (Note that the facilities and buildings of the BGCAPP are yet to be designed. It is expected additional facilities may be required and identified during the design development phase (FY 04-05). The systems contractor may elect to utilize some of the buildings as the baseline technology, however, new buildings will be necessary and many improvements/modifications are anticipated for the baseline building designs. The exact sizes, costs, and site plan of each building are unknown at this time.) Features include: blast doors, fire protection, a cascading heating, ventilation, air conditioning (HVAC) system with airlocks, air filtration, protective clothing area, toxic chemical resistive coatings and surfaces, bulk hydrolosate storage tanks, and explosion-proof electrical fixtures. Install an intrusion detection system (IDS). Supporting facilities include utilities; electric service, electrical substation; standby electric generators; communications system, workforce parking, access control, vehicle and munitions conveyance to the site, security fencing and lighting; paving, walks, curbs and gutters; storm drainage; information systems; fuel storage; and site improvements. Heating is anticipated to be provided by a gas-fired central system. Air conditioning will be provided by self-contained units.

11. REQ:                    NONE            ADQT:            NONE            SUBSTD:            NONE

PROJECT: Construct a newly designed Neutralization/SCWO chemical agent munitions demilitarization pilot plant facility (New Mission)

REQUIREMENT: This project is required to prove, through pilot plant demonstration, demilitarize and dispose of the toxic chemical agents and

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3. INSTALLATION AND LOCATION  
  
Blue Grass Army Depot, Kentucky

4. PROJECT TITLE  Ammunition Demilitarization Fac Ph-V	5. PROJECT NUMBER  51027
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REQUIREMENT: (CONTINUED)  
munitions stored at Blue Grass Army Depot can be done in a safe, environmentally acceptable manner.  
CURRENT SITUATION: Rockets and projectiles containing lethal chemical agents are stored in igloos at the installation. Some of these munitions are currently deteriorating at an accelerated rate. These munitions are of no strategic value but they must be safely stored and inspected so that there is no risk to the public or the environment. The monitoring and surveillance costs for safe storage continue to accrue. No other acceptable disposal facilities are available.  
IMPACT IF NOT PROVIDED: If this project is not provided, the Army will not comply with the Congressional mandate and Chemical Weapons Convention Treaty for chemical munitions stockpile disposal. Also, maintenance and surveillance costs will continue to accumulate. The threat to the health of Depot employees and to the environment will continue.  
ADDITIONAL: This project has been coordinated with the installation physical security plan, and all required physical security measures are included. No anti-terrorism/force protection measures are required. This project is mandated by Congress and is exempt from preparation of an economic analysis.  
JOINT USE CERTIFICATION: The Deputy Assistant Secretary of the Army (Installations and Housing) certifies that this project has been considered for joint use potential. This facility will be available for use by other components. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

- (1) Status:
  - (a) Date Design Started..... JUN 2003
  - (b) Percent Complete As Of January 2004..... 15.00
  - (c) Date 35% Designed..... MAY 2004
  - (d) Date Design Complete..... DEC 2005
  - (e) Parametric Cost Estimating Used to Develop Costs YES
  - (f) Type of Design Contract: Design-build
  
- (2) Basis:
  - (a) Standard or Definitive Design: NO
  
- (3) Total Design Cost (c) = (a)+(b) OR (d)+(e): (\$000)
  - (a) Production of Plans and Specifications..... 200
  - (b) All Other Design Costs..... 402
  - (c) Total Design Cost..... 602
  - (d) Contract..... 179
  - (e) In-house..... 423

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3. INSTALLATION AND LOCATION  
Blue Grass Army Depot, Kentucky

4. PROJECT TITLE Ammunition Demilitarization Fac Ph-V	5. PROJECT NUMBER 51027
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12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

- (4) Construction Contract Award..... JUN 2003
- (5) Construction Start..... SEP 2005
- (6) Construction Completion..... APR 2009

B. Equipment associated with this project which will be provided from other appropriations:

<u>Equipment</u> <u>Nomenclature</u>	<u>Procuring</u> <u>Appropriation</u>	<u>Fiscal Year</u> <u>Appropriated</u> <u>Or Requested</u>	<u>Cost</u> <u>(\$000)</u>
Process Equipment	CAMD	2004	19,780
Process Equipment	CAMD	2005	79,700
Process Equipment	CAMD	2006	59,339
Process Equipment	CAMD	2007	5,281
		TOTAL	<u>164,100</u>