

This page is intentionally left blank

#### Department of the Army FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

04 Mar 2019

Appropriation	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
Chem Agents & Munitions Destruction	961,732	993,816		993,816
Total Department of the Army	961,732	993,816		993,816

#### Department of the Army FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

04 Mar 2019

FY 2020

		FY 2020	OCO for Direct War	FY 2020
Appropriation	FY 2020 Base	OCO for Base Requirements	and Enduring Costs	Total OCO
Chem Agents & Munitions Destruction	985,499			
Total Department of the Army	985,499			

#### Department of the Army FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

04 Mar 2019

Appropriation	FY 2020 Total (Base + OCO)
· · · · · ·	
Chem Agents & Munitions Destruction	985,499
Total Department of the Army	985,499

#### Defense-Wide FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

#### Appropriation: Chem Agents & Munitions Destruction

Budget Activity	FY 2018 (Base + OCO)	FY 2019 Base Enacted	FY 2019 OCO Enacted	FY 2019 Total Enacted
01. Operation And Maintenance	104,237	105,997		105,997
02. Research, Development, Test, And Evaluation	839,414	886,728		886,728
03. Procurement	18,081	1,091		1,091
Total Chem Agents & Munitions Destruction	961,732	993,816		993,816

P-120PB: FY 2020 President's Budget (Published Version), as of March 4, 2019 at 15:25:00

04 Mar 2019

#### Defense-Wide FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

## Appropriation: Chem Agents & Munitions Destruction

Budget Activity	FY 2020 Base	FY 2020 OCO for Base Requirements	OCO for Direct War and Enduring Costs	FY 2020 Total OCO
01. Operation And Maintenance	107,351			
02. Research, Development, Test, And Evaluation	875,930		× *	
03. Procurement	2,218			
Total Chem Agents & Munitions Destruction	985,499			

P-120PB: FY 2020 President's Budget (Published Version), as of March 4, 2019 at 15:25:00

04 Mar 2019

FY 2020

#### Defense-Wide FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

#### Appropriation: Chem Agents & Munitions Destruction

	FY 2020 Total
Budget Activity	(Base + OCO)
01. Operation And Maintenance	107 251
	107,351
02. Research, Development, Test, And Evaluation	875,930
03. Procurement	2,218
Total Chem Agents & Munitions Destruction	985,499

P-120PB: FY 2020 President's Budget (Published Version), as of March 4, 2019 at 15:25:00

04 Mar 2019

#### Defense-Wide FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

04 Mar 2019

## Appropriation: 0390D Chem Agents & Munitions Destruction

Line No Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 S Total Enacted e Quantity Cost c
Budget Activity 01: Operation And Maintenance					
Operation & Maintenance			N.		
1 Chem Demilitarization - O&M		104,237	105,997		105,997 U
Total Operation And Maintenance		104,237	105,997		105,997
Budget Activity 02: Research, Development, Test, And	i Evaluati	on			
RDT&E				· · · · · · · · · · · · · · · · · · ·	
2 Chem Demilitarization - RDT&E		839,414	886,728		886,728 U
Total Research, Development, Test, And Evaluation		839,414	886,728		886,728
Budget Activity 03: Procurement					
Procurement					
3 Chem Demilitarization - Proc		18,081	1,091		1,091 U
Total Procurement		18,081	1,091		1,091
Total Chem Agents & Munitions Destruction		961,732	993,816		993,816

#### Defense-Wide FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

### Appropriation: 0390D Chem Agents & Munitions Destruction

04 Mar 2019

Line	Ident	FY 2020 Base	FY 2020 OCO for Base Requirements	FY 2020 OCO for Direct War and Enduring Costs	FY 2020 Total S OCO e
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost c
•••••					
Budget Activity 01: Operation And Maintenance					
Operation & Maintenance					
1 Chem Demilitarization - O&M		107,351			U
Total Operation And Maintenance		107,351			
Budget Activity 02: Research, Development, Test, A	nd Evaluati	on			
RDT&E		2			
2 Chem Demilitarization - RDT&E		875,930			υ
Total Research, Development, Test, And Evaluation		875,930	14		141
Budget Activity 03: Procurement					
Procurement					
3 Chem Demilitarization - Proc		2,218			U
Total Procurement		2,218			* **********
Total Chem Agents & Munitions Destruction		985,499			

#### Defense-Wide FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget Total Obligational Authority (Dollars in Thousands)

### Appropriation: 0390D Chem Agents & Munitions Destruction

			FY 2020				
	×.			Tota	1	S	
Line		1	Ident	(Base +	OCO)	е	
No	Item Nomenclature		Code	Quantity	Cost	С	
		-					

Budget Activity 01: Operation And Maintenance

Operation & Maintenance

1 Chem Demilitarization - O&M	107,351	U
Total Operation And Maintenance	107,351	

Budget Activity 02: Research, Development, Test, And Evaluation

#### RDT&E

2 Chem Demilitarization - RDT&E		875,930	U
Total Research, Development, Test	, And Evaluation	875,930	

Budget Activity 03: Procurement

-----

#### Procurement

3 Chem Demilitarization - Proc	2,218 U
Total Procurement	2,218
	the second second second second second second
Total Chem Agents & Munitions Destruction	985,499

P-120PB: FY 2020 President's Budget (Published Version), as of March 4, 2019 at 15:25:00

04 Mar 2019

This page is intentionally left blank

# FISCAL YEAR (FY) 2020 BUDGET ESTIMATES CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

TABLE OF CONTENTS	PAGE NO
APPROPRIATION LANGUAGE	1
APPROPRIATION JUSTIFICATION. PART I - PURPOSE AND SCOPE PART II - JUSTIFICATION OF FUNDS REQUIRED PART III - MILESTONES	2
BUDGET ACTIVITY 1: OPERATIONS AND MAINTENANCE PURPOSE AND SCOPE JUSTIFICATION OF FUNDS REQUIRED JUSTIFICATION BY PROGRAM EXHIBIT OP-5 EXHIBIT OP-32	8
BUDGET ACTIVITY 2: RESEARCH, DEVELOPMENT, TEST AND EVALUATION PURPOSE AND SCOPE JUSTIFICATION OF FUNDS REQUIRED FUNDED FINANCIAL SUMMARY JUSTIFICATION BY PROGRAM EXHIBIT R-1 EXHIBIT R-2	21
BUDGET ACTIVITY 3: PROCUREMENT. PURPOSE AND SCOPE JUSTIFICATION OF FUNDS REQUIRED FUNDED FINANCIAL SUMMARY JUSTIFICATION BY PROGRAM EXHIBIT P-40 EXHIBIT P-40a	38

## CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

## APPROPRIATION LANGUAGE

## Fiscal Year 2020

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 Department of Defense Authorization Act for Fiscal Year 1986 (50 U.S.C. 1521), and for the destruction of other chemical warfare materials that are not in the chemical weapons stockpile, \$985,499,000 of which:

(1) \$107,351,000 shall be for operations and maintenance, of which not less than \$52,402,000 shall be for the Chemical Stockpile Emergency Preparedness Program, consisting of \$22,394,000 for activities on military installations and \$30,008,000, to remain available until September 30, 2021, to assist State and local governments;

(2) \$875,930,000, to remain available until September 30, 2021, shall be for research, development, test and evaluation, of which \$869,430,000 shall be only for the Assembled Chemical Weapons Alternatives (ACWA) Program;

(3) \$2,218,000 to remain available until September 30, 2022, shall be for procurement for the Chemical Emergency Preparedness Program to assist State and local governments.

# JUSTIFICATION OF BUDGET ESTIMATE SUBMISSION CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

#### APPROPRIATION JUSTIFICATION

(In Thousands	of	Dollars)
FY 2020 Estimate		\$985 <b>,</b> 499
FY 2019 Enacted		\$993,816
FY 2018 Actual		\$961 <b>,</b> 732

#### Part I - Purpose and Scope

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 international community. 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 material, 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 outlined in the Chemical Weapons Convention (CWC).

The Chemical Demilitarization Program is this nation's response to the mandate of public law and commitments under the CWC. The program is established by and subject to the provisions outlined in Title 50 United States Code (U.S.C.) Section 1521 (as amended), which mandates that the U.S. chemical weapons stockpile must be destroyed by the deadline established by the CWC and under no circumstances later than December 31, 2023.

The United States ratified the CWC on April 25, 1997. The CWC is an international treaty banning development, production, stockpiling and use of chemical weapons. Under the treaty, chemical weapons were to be destroyed by April 29, 2007, with a possible one-time extension until April 29, 2012. The Secretary of Defense notified Congress on April 10, 2006 that the U.S. would request an extension of the destruction deadline to April 29, 2012. The notification also stated that the U.S. would not achieve that milestone based on the current schedules, but that the Department of Defense would continue requesting resources needed to complete destruction as close to the 2012 deadline as practicable. A formal request for the

extension was presented to the Organization for the Prohibition of Chemical Weapons (OPCW), an international organization overseeing implementation of the CWC provisions, and approved by OPCW in December 2006. All nations that are party to the CWC must comply with international law and are subject to a stringent inspection regime conducted by the OPCW. The Department's policy is to safely and efficiently destroy the U.S. lethal chemical stockpile as soon as possible.

The Chemical Demilitarization Program previously consisted of two Acquisition Category 1D Major Defense Acquisition Programs (MDAP) - Chemical Demilitarization-U.S. Army Chemical Materials Activity (CMA) and Chemical Demilitarization-Assembled Chemical Weapons Alternatives (ACWA). The CMA MDAP is currently inactive as a result of completing destruction of the seven chemical weapons stockpiles. The Army has responsibility for oversight and management of CMA with the Director of the CMA as the delegated authority for execution of the Chemical Stockpile Emergency Preparedness Project (CSEPP), and for managing the Recovered Chemical Warfare Material (RCWM) Program Support Functions. Separately, the Assistant Secretary of the Army for Installations, Energy and the Environment is delegated by the Secretary of the Army to fulfill the Executive Agent responsibilities for the Recovered Chemical Warfare Material (RCWM) Program within the United States assigned by the DoD. The Chemical Demilitarization Program is responsible for ensuring the RCWM Support Functions are adequately funded in support of explosive and munitions emergencies within the United States. In accordance with U.S. law, the Office of the Secretary of Defense (OSD) has direct oversight of the ACWA Program, which is responsible for neutralization destruction facilities in Colorado and Kentucky.

The Chemical Stockpile Elimination (CSE) Project: The CSE Project was responsible for the safe and environmentally sound destruction of the United States unitary chemical stockpiles originally located at one site outside the continental United States (OCONUS) known as Johnston Atoll Chemical Agent Disposal System, six continental United States (CONUS) sites (at Aberdeen, Maryland; Newport, Indiana; Pine Bluff, Arkansas; Anniston, Alabama; Umatilla, Oregon; and Tooele, Utah), and the Chemical Agent Munitions Destruction System (CAMDS) located in Tooele, Utah. These sites have now completed destruction of their stockpiles totaling 89.75 percent of the U.S. chemical weapons stockpile, facility closure, and closure of their respective operating permits.

The Recovered Chemical Warfare Material (RCWM) Program Support Functions: The RCWM support functions are a critical aspect to the execution of DoD's RCWM Program that include: sustainment and training of personnel; maintenance of equipment in a deployable state; support of explosives or munitions emergencies that involve munitions and certain materials of interest, assessing munitions and other materials of interest, and destroying RCWM; technical expertise, documentation development and project management; archive research of chemical warfare material sites; and Research, Development, Test and Evaluation (RDT&E) efforts to meet program requirements.

The RCWM Program Support Functions managed by the CMA's Recovered Chemical Material Directorate (RCMD) also includes transporting munitions and other material of interest; and RCWM or research material to support an assessment, secure storage, destruction efforts, and research and development efforts as necessary. Transport of RCWM is done in accordance with 50 U.S.C 1511-1521 and generally includes coordination with local, state, and federal officials. The CMA's RCMD coordinates transportation activities through the U.S. Army 20<sup>th</sup> Support Command.

The Chemical Stockpile Emergency Preparedness Project (CSEPP): The CSEPP is a complementary effort to the Assembled Chemical Weapons Alternatives Program to enhance protection of the civilian population during storage and destruction of the U.S. chemical weapons stockpile in Colorado and Kentucky. CSEPP operations and requirements at the Alabama, Arkansas, Maryland, Indiana, Oregon and Utah locations have been completed with the elimination of the stockpiles at these sites. The U.S. Army and the Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) provide enhanced emergency preparedness and response capabilities to the communities surrounding the two remaining storage sites (Colorado and Kentucky), and jointly manage the CSEPP activities. DHS/FEMA has total responsibility and accountability for working with State and local governments to enhance the required off-post emergency preparedness within established resources. The Army manages on-post emergency response/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, and local governments to address inter-jurisdictional issues and meet requirements of 50 U.S.C. 1521 for maximum protection for the general public and workers.

The Assembled Chemical Weapons Alternatives (ACWA) Program: The Omnibus Consolidated Appropriation Act for FY 1997 (Public Law 104-208) directed that the Under Secretary of Defense for Acquisition, Technology and Logistics (USD(AT&L)), conduct a program to identify and demonstrate not fewer than two alternatives to the baseline incineration process for the demilitarization of assembled chemical munitions. In 2002, Public Law 107-248 assigned the Program Manager (PM) ACWA 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. In June 2011, DoD certified a restructured ACWA program pursuant to 10 U.S.C 2433a. In February 2012, the Program Manager position was changed to a Program Executive Officer position. In March 2012, the ACWA program received Milestone B approval and an approved Acquisition Program Baseline that reflects revised cost and schedule estimates. The restructured ACWA program and the PEO's estimates underlying the restructured program are the basis for the program milestones and funding requirements reflected in this document. In July 2012, permanent orders were signed to re-designate the U.S. Army Element, ACWA to the Program Executive Office (PEO), ACWA effective October 1, 2012.

In March 2015, the ACWA program commenced destruction of the remaining 10.25 percent of the U.S chemical weapons stockpile using the Pueblo Chemical agent-Destruction Pilot Plant (PCAPP) Explosive Destruction System (EDS) in Colorado. On September 7, 2016, the PCAPP main destruction facility commenced chemical-agent operations.

# Part II - Justification of Funds Required

The funds requested in this budget submission are required to carry out the Congressional mandate of 50 U.S.C 1521 and the commitments of this nation under the Chemical Weapons Convention (CWC). This document provides justification for FY 2020 financial requirements in support of the Chemical Demilitarization Program, which is budgeted in the Chemical Agents and Munitions Destruction, Defense appropriation. The following paragraphs provide a top level summary of the activities planned for FY 2020 that require funding.

The Chemical Demilitarization Program will continue to support the Recovered Chemical Warfare Material (RCWM) Program by ensuring the RCWM Support Functions are adequately funded to support explosive and munitions emergencies with the United States including: the assessment of munitions and other materials of interest with an unknown liquid fill and the destruction of those munitions and materials that are determined to be RCWM.

The Chemical Stockpile Emergency Preparedness Project (CSEPP) will continue to support chemical stockpile emergency preparedness activities on the Pueblo, CO, and Blue Grass, KY, depots and in the off-post communities surrounding those facilities where chemical weapons stockpiles are stored.

The Assembled Chemical Weapons Alternatives (ACWA) program activities at the Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) will include the following efforts. PCAPP Main Plant: continuation of chemical-agent operations, and PCAPP EDT: completion of facilitization and systemization of PCAPP SDCs, beginning of PCAPP SDC chemical-agent operations and continuation of energetics destruction at Anniston SDC. The ACWA program activities at the Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) will include the following efforts. BCGAPP Main Plant: completion of systemization and start of chemical-agent operations, and BGCAPP EDT: completion of chemical-agent campaign.

## Part III - Milestones

# Major Milestones for the Recovered Chemical Warfare Material Program Support Functions are as follows:

Support of Explosives or Munitions Emergency Responses to munitions and certain materials of interest encountered within the United States including the assessment, packaging, transportation, storage and destruction July 2009 to FY 2027

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

Provide response capabilities up to 180 days after completion of demilitarization operations at: Pueblo Chemical Depot, Colorado Blue Grass Chemical Activity, Kentucky FY 2024

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

### PCAPP:

- Main Plant Chemical-Agent Operations: Continue chemical-agent operations	FY 2020
- PCAPP EDT: Complete Facilitization and Systemization of PCAPP SDCs	FY 2020
- PCAPP SDC Chemical-Agent Operations: Begin chemical-agent operations	FY 2020
- Anniston SDC: Continue energetics destruction	FY 2020

## BGCAPP:

- Main Plant: Complete systemization	FY 2020
- Main Plant Chemical-Agent Operations: Begin chemical-agent operations	FY 2020
- BGCAPP EDT: Complete chemical-agent campaign	FY 2020

(In Thousands	of Dollars)
FY 2020 Estimate	\$107 <b>,</b> 351
FY 2019 Enacted	\$105 <b>,</b> 997
FY 2018 Actual	\$104 <b>,</b> 237

## Purpose and Scope

This budget activity provides for functions performed in support of the DoD's Recovered Chemical Warfare Material (RCWM) Program and emergency preparedness activities under the Chemical Stockpile Emergency Preparedness Project (CSEPP).

# Justification of Funds Required

Funds requested in FY 2020 are necessary to maintain support to the Chemical Demilitarization Program. Operations financed by this budget activity in FY 2020 include:

(1) RCWM Program Support Function requirements in support of explosives and munitions emergency responses within the United States, and maintenance and logistics support for RCWM mobile systems and supporting equipment.

(2) Chemical Stockpile Emergency Preparedness Project (CSEPP) support for enhanced emergency preparedness and response capabilities at the State and local levels of government and at the remaining two operational chemical stockpile storage installations (Colorado and Kentucky).

In addition, \$10 million of Funded Reimbursable Authority is needed to respond to requests by the Services; other government agencies; and foreign countries when authorized by the Secretary of Defense, for assistance in the storage, assessment and destruction of chemical agents and munitions.

## Justification by Program

## Recovered Chemical Warfare Material (RCWM) Program Support Functions:

Sustainment of Personnel: The FY 2020 budget request will fund the following personnel: RCMD office; matrix labor support from U.S. Army Research, Development and Engineering Command; RCWM Integration Office; and sustainment and training of Mobile Munitions Assessment System (MMAS) and Explosive Destruction System (EDS) crews.

<u>Maintenance of Equipment</u>: The FY 2020 budget request will fund activities to ensure the RCWM Program assessment and destruction assets are maintained in a deployable condition. The FY 2020 budget request also provides for the use of the Chemical Demilitarization Training Facility to support this ongoing mission.

Support to Explosives and Munitions Emergency Response: The FY 2020 budget request will fund the capability to provide time-critical responses, packaging, assessments of munitions and certain material of interest, the destruction of RCWM within the United States; and the disposal of generated hazardous waste.

**Programmatics**: The FY 2020 budget request will fund programmatic activities such as: procurement and contract evaluation support, development of planning and operational documentation, program and public affairs activities, system test and evaluation, and CMA Headquarters management and oversight of the RCWM Program Support Functions.

**Archive Research:** The FY 2020 budget request will fund research and analysis of historical records related to chemical weapons production, movement, testing, and disposal to provide critical site specific information.

**Work Performed By:** The CMA's Recovered Chemical Material Directorate is located at Aberdeen Proving Ground, Maryland, and is the government's technical organization that maintains and manages the provisions of the RCWM Program Support Functions. Primary Army activities that support RCMD in the provision of the RCWM Program Support Functions are: Army Research,

Development and Engineering Command (RDECOM), Edgewood Chemical Biological Center (ECBC), Edgewood, Maryland; and the U.S. Army Forces Command, 20th Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) Command, CBRNE Analytical and Remediation Activity (CARA), Edgewood, Maryland. Other government agencies and contractors that support RCMD include: General Physics (GP), Columbia, Maryland; Sandia National Laboratory (SNL), Albuquerque, New Mexico; Idaho National Laboratory (INL), Boise, Idaho; Booz Allen Hamilton, McLean, Virginia; GSI Pacific, Boulder, Colorado; and CALIBRE Systems, Alexandria, Virginia.

## Chemical Stockpile Emergency Preparedness Project:

**On-Post Program Management:** The FY 2020 budget request will fund personnel, program support and oversight, travel, supplies and contract support.

<u>On-Post Mission</u>: The FY 2020 budget request will fund the following requirements: emergency planner/response personnel for the two chemical weapons stockpile storage installations; Army administration; 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, and emergency preparedness and response capabilities in Colorado and Kentucky. This budget request also provides funding for Army-managed technical support for sustaining both on-post and off-post emergency preparedness and response capabilities.

**Off-Post Mission:** The FY 2020 budget request will fund the following requirements: emergency planner/response personnel for DHS/FEMA, Colorado and Kentucky State and local governments; DHS/FEMA, Colorado and Kentucky State and local administration; off-post training, local exercises, and annual joint exercises; DHS/FEMA, Colorado and Kentucky State 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 preparedness and response. This budget request also provides funding for DHS/FEMA managed technical support for off-post emergency preparedness and response capabilities, off-post protective actions projects, and joint on-post/off-post exercises.

# CHEMICAL DEMILITARIZATION Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 President's Budget

Operation and Maintenance, Defense-Wide Summary (\$ in thousands) Budget Activity (BA) 1: Chemical Agents and Munitions, Destruction, Defense Exhibit OP-5

	FY 2018	Price	Program	FY 2019	Price	Program	FY 2020
	Actuals	Change	Change	Enacted	Change	Change	<u>Estimate</u>
Chem Demil	104,237	1,871	-111	105,997	2,112	-758	107,351

# I. Description of Operations Financed: See Pages 8 - 10 of this document.

# II. Force Structure Summary:

N/A

# CHEMICAL DEMILITARIZATION Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 President's Budget

# III. Financial Summary (\$ in thousands)

	_			FY 201	.9		_
			Cong	ressional	Action		_
	FY 2018	Budget				Current	FY 2020
A. BA Subactivities	Actuals	Request	Amount	Percent	Appropriated	Enacted	Estimate
CSEPP	49,401	52,735	0	0.0	52,735	52,735	52,402
CSEPP Off-Post Mission	28,356	31,135	0	0.0	31,135	31,135	30,008
CSEPP On-Post Mission	18,873	19,213	0	0.0	19,213	19,213	19,966
CSEPP On-Post Program	2,172	2,387	0	0.0	2,387	2,387	2,428
Management							
RCWM Program Support	54,836	53,262	0	0.0	53,262	53,262	54,949
Functions							
RCWM Program -	0	11,451	0	0.0	11,451	11,451	14,630
Maintenance of							
Equipment							
RCWM Program -	37,730	0	0	n/a	0	0	0
Operations							
RCWM Program -	0	15,020	0	0.0	15,020	15,020	10,070
Support to Explosives							
or Munitions Emergency							
Response							
RCWM Program -	0	15,065	0	0.0	15,065	15,065	15,538
Sustainment of							
Personnel							
RCWM Program - Archive	0	2,021	0	0.0	2,021	2,021	1,842
Research							
RCWM Program - Program	7,136	0	0	n/a	0	0	0
Management							
RCWM Program -	9,970	0	0	n/a	0	0	0
Programmatic Support Activities							

# CHEMICAL DEMILITARIZATION Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 President's Budget

# III. Financial Summary (\$ in thousands)

	-		FY 2019				
		_	Congressional Action				
	FY 2018	Budget				Current	FY 2020
A. BA Subactivities	Actuals	Request	Amount	Percent	Appropriated	Enacted	Estimate
RCWM Program -	0	9,705	0	0.0	9,705	9,705	12,869
Programmatics							
Total	104,237	105,997	0	0.0	105,997	105,997	107,351

CHEMICAL DEMILITARIZATION Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 President's Budget

III. Financial Summary (\$ in thousands)

B. Reconciliation Summary	Change FY 2019/FY 2019	Change FY 2019/FY 2020
Baseline Funding	105,997	
Congressional Adjustments (Distributed)		
Congressional Adjustments (Undistributed)		
Adjustments to Meet Congressional Intent		
Congressional Adjustments (General Provisions)		
Subtotal Appropriated Amount	105,997	
Fact-of-Life Changes (2019 to 2019 Only)		
Subtotal Baseline Funding	105,997	
Supplemental		
Reprogrammings		
Price Changes		2,112
Functional Transfers		
Program Changes		-758
Current Estimate	105,997	107,351
Less: Wartime Supplemental		
Normalized Current Estimate	105,997	

CHEMICAL DEMILITARIZATION

Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 President's Budget

III. Financial Summary (\$ in thousands)

C. <u>Reconciliation of Increases and Decreases</u> FY 2019 President's Budget Request (Amended, if applicable) <ol> <li>Congressional Adjustments</li> </ol>	Amount	<u>Totals</u> 105,997
a. Distributed Adjustments		
b. Undistributed Adjustments c. Adjustments to Meet Congressional Intent		
d. General Provisions		
FY 2019 Appropriated Amount		105,997
2. War-Related and Disaster Supplemental Appropriations		100,007
3. Fact-of-Life Changes		
FY 2019 Baseline Funding		105,997
4. Reprogrammings (Requiring 1415 Actions)		,
Revised FY 2019 Enacted		105,997
5. Less: Item 2, War-Related and Disaster Supplemental		
Appropriations and Item 4, Reprogrammings		
FY 2019 Normalized Current Enacted		105,997
6. Price Change		2,112
7. Functional Transfers		C 4 C 4
8. Program Increases		6,464
a. Annualization of New FY 2019 Program b. One-Time FY 2020 Increases		
c. Program Growth in FY 2020		
1) RCWM Program - Programmatics	2,970	
Increase is due to multiple contracts originally	2,570	
accounted for under the Support to Explosives or		
Munitions Emergencies Emergency Response, up the		
Final Decision have been consolidated under one		
contract and accounted for under Programmatics. (FY		
2019 Baseline: \$9,705 thousand)		
2) RCWM Program - Maintenance of Equipment	2,951	

CHEMICAL DEMILITARIZATION

Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 President's Budget

III. Financial Summary (\$ in thousands)

Reconciliation of Increases and Decreases	Amount	<u>Totals</u>
Increase due to scheduled equipment purchases,		
equipment upgrades and additional logistics efforts		
\$11,451 thousand)		
3) CSEPP On-Post - Mission	370	
-	173	
		-7,222
2	5 0 4 0	
	-5,249	
-		
	-1 747	
•	1, 141	
	-219	
	Increase due to scheduled equipment purchases, equipment upgrades and additional logistics efforts required for RCWM mission needs. (FY 2019 Baseline: \$11,451 thousand)	Increase due to scheduled equipment purchases, equipment upgrades and additional logistics efforts required for RCWM mission needs. (FY 2019 Baseline: \$11,451 thousand) 3) CSEPP On-Post - Mission 370 Increase due to higher Army contract and other Government Agency support costs. (FY 2019 Baseline: \$19,213 thousand) 4) RCWM Program - Sustainment of Personnel 173 Increase due to staffing authorized vacant positions required for RCWM mission needs. (FY 2019 Baseline: \$15,065 thousand) Program Decreases a. Annualization of FY 2019 Program Decreases b. One-Time FY 2019 Increases c. Program Decreases in FY 2020 1) RCWM Program - Support to Explosives or Munitions -5,249 Emergencies Emergency Response, up to the Final Decrease is due to RCWM consolidating multiple contract efforts under this support function to one contract under Programmatics. (FY 2019 Baseline: \$15,020 thousand) 2) CSEPP Off-Post - Mission -1,747 Decrease due to reduction in Kentucky communications, emergency operations center, and protective actions operating costs. (FY 2019 Baseline: \$31,135 thousand)

# CHEMICAL DEMILITARIZATION

Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 President's Budget

III. Financial Summary (\$ in thousands)

C. <u>Reconciliation of Increases and Decreases</u>	Amount	<u>Totals</u>
Decrease due to revised estimating methodologies.		
(FY 2019 Baseline: \$2,021 thousand)		
4) CSEPP On-Post - Program Management	-7	
Reduction in CMA HQ's programmatic support costs.		
(FY 2019 Baseline: \$2,387 thousand)		
FY 2020 Budget Request		107,351

CHEMICAL DEMILITARIZATION Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 Budget Estimates

IV. Performance Criteria and Evaluation Summary:

Workload data not applicable.

CHEMICAL DEMILITARIZATION Operation and Maintenance, Defense-Wide Fiscal Year (FY) 2020 Budget Estimates

# V. Personnel Summary

Workload data not applicable.

# CHEMICAL DEMILITARIZATION

Operation and Maintenance, Defense-Wide

Fiscal Year (FY) 2020 President's Budget

## VI. OP 32 Line Items as Applicable (Dollars in thousands):

		Chang	je	Change			
	FY 2018	FY 2018/F	Y 2019	FY 2019	FY 2019/F	Y 2020	FY 2020
OP 32 Line	Actuals	Price	Program	Enacted	Price	Program	Estimate
308 Travel of Persons	205	4	114	323	6	59	388
399 Total Travel	205	4	114	323	6	59	388
601 Army Industrial Operations	194	-2	218	410	0	15	425
699 Total DWCF Purchases	194	-2	218	410	0	15	425
771 Commercial Transport	0	0	6	6	0	0	6
799 Total Transportation	0	0	6	6	0	0	6
912 Rental Payments to GSA (SLUC)	0	0	20	20	0	-6	14
913 Purchased Utilities (Non- Fund)	1	0	-1	0	0	0	0
914 Purchased Communications (Non-Fund)	43	1	-39	5	0	0	5
917 Postal Services (U.S.P.S)	1	0	-1	0	0	0	0
920 Supplies & Materials (Non- Fund)	70	1	118	189	4	8	201
922 Equipment Maintenance By Contract	442	8	385	835	17	68	920
923 Facilities Sust, Rest, & Mod by Contract	13,643	246	-13,889	0	0	0	0
925 Equipment Purchases (Non- Fund)	1,021	18	-805	234	5	-21	218
932 Mgt Prof Support Svcs	21,183	381	-7,406	14,158	283	-695	13,746
934 Engineering & Tech Svcs	5,742	103	885	6,730	135	995	7,860
957 Other Costs (Land and Structures)	722	13	1,059	1,794	36	-1,096	734
984 Equipment Contracts	153	3	-156	0	0	0	0
987 Other Intra-Govt Purch	60,053	1,081	10,144	71,278	1,426	-1,231	71,473
989 Other Services	764	14	9,237	10,015	200	1,146	11,361
999 Total Other Purchases	103,838	1,869	-449	105,258	2,106	-832	106,532
Total	104,237	1,871	-111	105,997	2,112	-758	107,351

Budget Activity 2: Research, Development, Test & Evaluation

(In Thousands of Dollars)
FY 2020 Estimate \$875,930
FY 2019 Enacted \$886,728
FY 2018 Actual \$839,414

## 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 assessment and destruction (treatment) of recovered chemical warfare material (RCWM).

# Justification of Funds Required

Funds are required for RDT&E required by the RCWM Program Support Functions in FY 2020, in support of the United States Chemical Demilitarization Program. The RCWM Program Support Function activities include: continuation of Explosive Destruction System (EDS) process improvements; improving the Portable Isotopic Neutron Spectroscopy (PINS) and Digital Radiography and Computed Tomography (DRCT) analyses to provide improved assessment capabilities; multi-agent gas analysis, and chemistry studies.

The Assembled Chemical Weapons Alternatives (ACWA) program activities at the Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) will include the following efforts. PCAPP Main Plant: continuation of chemical-agent operation; and PCAPP EDT: completion of facilitization and systemization of PCAPP SDCs, beginning of PCAPP SDC chemical-agent operations and continuation of energetics destruction at Anniston SDC. The ACWA program activities at the Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) will include the following efforts. BCGAPP Main Plant: completion of systemization and start of chemical-agent operations, and BGCAPP EDT: completion of chemical-agent campaign. Five million (\$5M) of Funded Reimbursable Authority is required for evaluation and assessment of chemical warfare material discovered as a result of requests by other government agencies and foreign countries for the Recovered Chemical Warfare Material Program.

Funded Financial Summary								
(In Thousands of Dollars)								
	FY 2018	FY 2019	FY 2020					
	Actual	Enacted	Estimate					
Chemical Materials Activity (CMA)								
RCWM Program Mobile Destruction Capabilities	6,029	0	0					
RCWM Program Miscellaneous Studies and Projects	1,485	0	0					
RCWM Program Support Function RDT&E Projects	0	6,445	6,500					
Subtotal CMA	7,514	6,445	6,500					
Assembled Chemical Weapons Alternative Program								
Pueblo, CO	421,700	406,391	417,700					
Blue Grass, KY	410,200	473,892	451 <b>,</b> 730					
Subtotal ACWA	831,900	880,283	869,430					
Total Funded	839,414	886,728	875,930					

Budget Activity 2: Research, Development, Test & Evaluation

# Justification by Program

## A. DESCRIPTION OF ELEMENT:

# Recovered Chemical Warfare Material (RCWM) Program Support Function:

This budget activity will fund the RDT&E projects for the development of improved technologies in support of the United States Chemical Demilitarization Program, for Explosive Destruction System (EDS) process improvements, improving the Portable Isotopic Neutron Spectroscopy (PINS) and Digital Radiography and Computed Tomography (DRCT) analyses to provide improved assessment capabilities, multi-agent gas analysis, and chemistry studies.

## Assembled Chemical Weapons Alternatives (ACWA) Program:

This budget activity will fund costs related to design, construction, systemization, operations, and closure of two full-scale pilot plants, PCAPP and BGCAPP, as well as the alternative destruction technologies selected for both sites. The budget activity also provides for the preparation of the necessary environmental documentation to support construction and operation of the two pilot plants, EDS, SDC, as well as public outreach and other program management activities. Costs for design and construction of pilot plants and EDT are included in the Chemical Demilitarization Construction, Defense account.

## B. PROGRAM ACCOMPLISHMENTS AND PLANS:

# Recovered Chemical Warfare Material (RCWM) Program Support Functions (See Exhibit R-2a, Chemical Materials Agency):

<u>Program-Wide:</u> FY 2020 budget request will fund continued EDS process improvements, multiagent gas analysis, PINS and DRCT analyses, and chemistry studies.

### Assembled Chemical Weapons Alternatives Program (See Exhibit R-2, ACWA):

<u>PCAPP</u>: FY 2020 budget will fund the following efforts. PCAPP chemical-agent operations in the main destruction facility and PCAPP SDC. Additionally, a portion of the FY 2020 budget will fund program office salaries, host installation support, contract management, and project support services by support contractors and other government agencies.

<u>BGCAPP:</u> FY 2020 budget will fund the following efforts. BGCAPP chemical-agent operations in the main destruction facility and BGCAPP SDC. Additionally, a portion of the FY 2020 budget will fund program office salaries, host installation support, contract management, and project support services by support contractors and other government agencies.

#### C. WORK PERFORMED BY:

Recovered Chemical Warfare Material (RCWM) Program Support Functions: The Recovered Chemical Warfare Material Directorate is located at Aberdeen Proving Ground, Maryland, and is the government's technical organization involved with the assessment of munitions and certain material of interest and the destruction of RCWM. Primary DoD activities that support RCMD in the provision of the RCWM Program support functions are: Army Research, Development and Engineering Command (RDECOM), Edgewood Chemical Biological Center (ECBC), Edgewood, Maryland; and the U.S. Army Forces Command, 20th Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) Command, CBRNE Analytical and Remediation Activity (CARA), Edgewood, Maryland. Other government agencies and contractors that support RCMD include: General Physics (GP), Columbia, Maryland; Sandia National Laboratory (SNL), Albuquerque, New Mexico; Idaho National Laboratory (INL), Boise, Idaho; Booz Allen Hamilton, McLean, Virginia; and APTIM Federal Services, Alexandria, Virginia.

#### Assembled Chemical Weapons Alternatives Program:

The Program Executive Office for the Assembled Chemical Weapons Alternatives is located at Aberdeen Proving Ground, Maryland, and is the government's management organization involved with the implementation of alternatives to the baseline incineration process for the demilitarization of chemical munitions. A contract to design, build, test, operate, and close a pilot plant based on neutralization followed by bio-treatment at Pueblo Chemical Depot, Colorado was awarded to Bechtel National Incorporated in 2002. A contract to design, build, test, operate, and close a pilot plant based on neutralization followed by supercritical water oxidation at Blue Grass Army Depot, Kentucky was awarded to the Bechtel Parsons Joint Venture in 2003.

### D. RELATED ACTIVITIES:

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, except for the Pueblo Chemical Depot, Colorado, and Blue Grass Army Depot, Kentucky, projects that report to the Under Secretary of Defense (Acquisition & Sustainment).

#### E. OTHER APPROPRIATION FUNDS:

**Recovered Chemical Warfare Material (RCWM) Program Support Functions:** Operations and Maintenance FY 2020 funds in the Chemical Agents and Munitions Destruction, Defense appropriation will be used in the support of the RCWM program for sustainment of personnel, maintenance of equipment and to respond, package, and assess munitions and certain materials of interest with an unknown liquid fill as part of support of explosives and munitions emergencies and CWM response actions.

### UNCLASSIFIED

#### Chemical Demilitarization Program • Budget Estimate Submission FY 2020 • RDT&E Program Exhibit R-1 (Listing by Budget Activity, then Program Element Number)

Cost (\$ in Millions)

BA# 02: RDT&E

Line#	BA#	PE#	PE# PE Title		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
1	02	0708081D	Chemical Materials Activity	1,405.895	7.514	6.445	6.500	-	6.500
2	02	0708083D	ACWA - Assembled Chemical Weapons Alternatives	-	831.900	880.283	869.430	-	869.430
Total: RDT&E				1,405.895	839.414	886.728	875.930	-	875.930

UNCLASSIFIED Exhibit R-1 Page 1 of 1

Volume 1 - ix

Exhibit R-2, RDT&E Budget Ite	em Justificat	ion: PB 202	20 Chemica	l Demilitariz	zation Progr	ram				Date: Feb	uary 2019	
Appropriation/Budget Activity 0390D: Chem Agents & Munitio		n / BA 2: RL	DT&E			am Elemen 31D / Chem						
COST (\$ in Millions)	Prior Years <sup>(+)</sup>	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	1,405.895	7.514	6.445	6.500	-	6.500	6.500	6.500	6.500	6.500	Continuing	Continuing
0708081D - 1: Recovered Chemical Warfare Material (RCWM) Program - Mobile Destruction Capabilities	413.091	5.852	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	418.943
0708081D - 2: Recovered Chemical Warfare Material (RCWM) Program - Miscellaneous Studies and Projects	93.967	1.662	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	95.629
0708081D - 3: Recovered Chemical Warfare Material (RCWM) Program - RDT&E Projects	0.000	0.000	6.445	6.500	-	6.500	6.500	6.500	6.500	6.500	Continuing	Continuing

(\*) The sum of all Prior Years is \$898.837 million less than the represented total due to several projects ending

#### Note

Total Program Element (PE) Prior Years Cost includes RDT&E costs for the following projects whose RDT&E requirements have been completed: Chemical Stockpile Elimination Program (887.834) completed in FY 2005 and Chemical Stockpile Emergency Preparedness Program (1.429) completed in FY 2002.

#### A. Mission Description and Budget Item Justification

The Chemical Demilitarization Program - U.S. Army Chemical Materials Activity (CMA) was a Category 1D Major Defense Acquisition Program (MDAP); however, the CMA MDAP is currently inactive as a result of completing destruction of the seven chemical weapons stockpiles. The Army has oversight and management with the Director of the CMA as the delegated authority for execution of the Chemical Stockpile Emergency Preparedness Project (CSEPP) and for managing the Recovered Chemical Warfare Material (RCWM) Program Support Functions.

The RCWM Program Support Functions, in support of the U.S. Chemical Demilitarization Program, provides centralized technical expertise and project management of chemical material disposal in a safe, environmentally sound, and cost effective manner.

The CSEPP is a complementary effort to the Assembled Chemical Weapons Alternatives Program to enhance protection of the civilian population during storage and destruction of the U.S.' chemical weapons stockpile.

Page 1 of 8

xhibit R-2, RDT&E Budget Item Justification: PB 2020 Chem					February 2019
ppropriation/Budget Activity		-	ement (Number/Name)		
390D: Chem Agents & Munitions Destruction I BA 2: RDT&E		PE 0708081D / 0	Chemical Materials Activit	ty	
. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	7.514	6.445	6.500	-	6.500
Current President's Budget	7.514	6.445	6.500	-	6.500
Total Adjustments	0.000	0.000	0.000	-	0.000
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
Congressional Adds	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			

Appropriation/Budget Activity 0390D / 2									Duttering	bruary 2019	
				am Elemen 31D / Chemi		07080810 Warfare N	roject (Number/Name) '08081D - 1 / Recovered Chemical 'arfare Material (RCWM) Program - Mol estruction Capabilities				
COST (S in Millions)	ior ars FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
0708081D - 1: Recovered 41 Chemical Warfare Material (RCWM) Program - Mobile Destruction Capabilities	3.091 5.85	2 0.000	0.000	-	0.000	0.000	0.000	0.00	0.00	0 0.000	418.94
This project includes costs for Explosiv treatment and treating chemical agent of Tomography (DRCT) analyses to provi Munition Storage Container (UMSC) te See Program Element 0708081D - 3 for	contaminated so de improved ass sting.	il and debris sessment ca	; Portable I pabilities, T	sotopic Neu ransportable	tron Spectr	oscopy (PIN	S) and Dig	ital Radiog	raphy and	Computed	
B. Accomplishments/Planned Progra	ms (\$ in Million	is)						F	Y 2018	FY 2019	FY 2020
Title: Recovered Chemical Warfare Ma	terial Program -	Mobile Dest	ruction Cap	abilities					5.852	0.000	0.00
Description: FY18 Accomplishments: Continued EDS process improvements, testing, and TDC redesign. Completed chemical agent contaminated soil and c	high speed/high							treat			
FY 2019 Plans: See Program Element 0708081D - 3 fo	r FY 2019 fundir	ig plans.									
FY 2020 Plans: See Program Element 0708081D - 3 fo	r FY 2020 fundii	ig plans.									
FY 2019 to FY 2020 Increase/Decreas	se Statement:										
See Program Element 0708081D - 3.				Accomplis	h monto (DL				5.852	0.000	0.00

Exhibit R-2A, RDT&E Project Jus	Suncation, PB	2020 Chem	ical Demilitar							oruary 2019	
Appropriation/Budget Activity 390D / 2						nent (Numb hemical Mate	Project (Number/Name) 0708081D - 1 / Recovered Chemical Warfare Material (RCWM) Program - Mobil Destruction Capabilities				
C. Other Program Funding Sumn	nary (\$ in Milli	ons)									
			FY 2020	FY 2020	FY 2020					Cost To	
Line Item • 0390 O&M/0708081D: CAMD,D O&M	FY 2018 43.869	FY 2019 0.000	Base 0.000	<u>000</u>	<u>Total</u> 0.000	FY 2021 0.000	FY 2022 0.000	FY 2023 0.000	FY 2024 0.000	Complete 0.000	Total Co 87.2
Remarks											
D. Acquisition Strategy N/A											
Chemical Demilitarization (Chem I	Demil) Program	<ol> <li>The progr</li> </ol>	am has deve	loped annua	al destructio	n goals to gu	uide its progre	ss toward o	destroying th	he entire U.S	<ol><li>chemic</li></ol>
veapons stockpile.											

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2020 C	Chemical De	emilitarizatio							oruary 2019	
Appropriation/Budget Activity 0390D / 2						ram Elemen 081D / Chem			07080810 Warfare I	Aaterial (RC	i <b>me)</b> vered Chem WM) Progra es and Projec	<i>m</i> -
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 0C0	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
0708081D - 2: Recovered Chemical Warfare Material (RCWM) Program - Miscellaneous Studies and Projects	93.967	1.662	0.000	0.000	-	0.000	0.000	0.000	0.00	0.00	0 0.000	95.62
A. Mission Description and Bud This project includes costs for res chemical monitoring, decontamin See Program Element 0708081D	searching alt ation method	ernative treads and tread	eatment tec atment studi	es.		v waste treatn	nent partne	ring with inc	lustry; rese	arch effort	s on multi-ag	ent
B. Accomplishments/Planned P	rograms (\$	in Million	<u>s)</u>						F	Y 2018	FY 2019	FY 2020
Title: Recovered Chemical Warfa	re Material (	RCWM) P	rogram - Mi	scellaneous	s Studies a	and Projects				1.662	0.000	0.00
Description: FY 2018 Accomplisi Awarded contract to test alternation		sive assess	sment techn	ology and (	continued	chemistry stu	idies.					
FY 2019 Plans: See Program Element 0708081D	- 3 for FY 20	019 funding	g plans.									
FY 2020 Plans: See Program Element 0708081D	- 3 for FY 20	020 funding	g plans.									
FY 2019 to FY 2020 Increase/De See Program Element 0708081D		tement:										
					Accomp	lishments/Pl	anned Pro	grams Sub	totals	1.662	0.000	0.00
C. Other Program Funding Sum	mary (\$ in N	<u>Millions)</u>	FY 2	2020 FY	<u>2020</u>	FY 2020					Cost To	
Line Item • 0390 O&M/0708081D:	FY 201 10.96			<u>3ase</u> .000	- 000	<u>Total</u> <u>F</u> 0.000	<u>Y 2021</u> 0.000	6.000	FY 2023 0.000	FY 2024 0.000	Complete 0.000	Total Cos 35.518
CAMD,D O&M												

Exhibit R-2A, RDT&E Project Justification: PB 2020 Chemical Demilitarization Program Date: February 2019												
Appropriation/Budget Activity 0390D / 2						ment (Numb hemical Mate	er/Name) erials Activity					
C. Other Program Funding Summ	ary (\$ in Millio	ons)										
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	EX 2024	Cost To	Total Cost	
Remarks	112010	112010	Dusc	000	Total	112021	112022	112025	112024	complete	10101 0031	
D. Acquisition Strategy N/A												
E. Performance Metrics The DOD uses the percent (cumula Chemical Demilitarization (Chem Do weapons stockpile.												

UNCLASSIFIED Page 6 of 8

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2020 C	Chemical De	emilitarizatio	on Progran	n			_	Date: Ma	rch 2019	
Appropriation/Budget Activity 0390D / 2					_	ram Elemen )81D / Chemi		0708081D Warfare N	Project (Number/Name) 1708081D - 3 / Recovered Chemical Varfare Material (RCWM) Program - RDT&E Projects			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
0708081D - 3: Recovered Chemical Warfare Material (RCWM) Program - RDT&E Projects	0.000	0.000	6.445	6.500	-	6.500	6.500	6.500	6.500	) 6.50	0 Continuing	Continuin
This project includes costs for Exp treatment and treating chemical a Tomography (DRCT) analyses to Chamber (TDC) analysis, re-desig B. Accomplishments/Planned P	gent contar provide imp gn and testi	minated soil proved asse ng, multi-ag	l and debris essment cap gent gas an	; Portable I pabilities, te	sotopic Ne esting of all	utron Spectro ternative non	oscopy (PII	NS) and Dig	ital Radiog technology	raphy and , Transport	Computed	
Title: Recovered Chemical Warfa					ata				F	0.000	6.445	6.50
Description: FY 2018 Accomplish FY 2019 Plans: Continue EDS process improvement testing of the alternative non-intrustion	nments: Se ents, multi-a	e Program agent gas a	Elements 0	708081D -	1 and 070		studies and	i complete				
FY 2020 Plans: Continue EDS process improvementesting of the TDC.				IS and DR(	CT analyse	es, chemistry	studies, an	d complete				
FY 2019 to FY 2020 Increase/De Minor increase due to price growth		tement:										
					Accompl	ishments/Pla	anned Prog	grams Sub	totals	0.000	6.445	6.50
<u>C. Other Program Funding Sum</u> Line Item • 0390 O&M/0708081D::	mary (\$ in   <u>FY 20</u> 0.0	18 FY 2	019 E	2020 FY Base .949	2020 F		<u>Y 2021  </u> 55.000	<u>Y 2022</u> 55.000	FY 2023 55.000		Cost To Complete Continuing	
	0.0							20.000	00.000	00.000	2 of the local days	
CAMD,D O&M												

	uncauon. FB	2020 Chem	ical Demilita							oruary 2019	
ppropriation/Budget Activity 390D / 2						nent (Numb aemical Mate	er/Name) trials Activity	Project (Number/Name) 0708081D - 3 / Recovered Chemical Warfare Material (RCWM) Program - RDT&E Projects			
. Other Program Funding Summ	ary (\$ in Milli	ons)									
			FY 2020	FY 2020	FY 2020					Cost To	
Line Item	FY 2018	FY 2019	Base	000	Total	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Total Co
• 0390 PROC/0708081D:: CAMD,D PROC	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000		Continuing	
lemarks											
). Acquisition Strategy N/A											
Chemical Demilitarization (Chem D veapons stockpile.	ionii i rografi	i. The progr	ann nas ueve			n goalo to gr	nac na hi Alic	SS IOWAIU (	icouroying u	ie enure U.	s. Grenni

Page 8 of 8

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Chemical Demilitarization Program Date: February 2019												
Appropriation/Budget Activity         R-1 Program Element (Number/Name)           0390D: Chem Agents & Munitions Destruction I BA 2: RDT&E         PE 0708083D I ACWA- Assembled Chemical Weapons Alternatives												
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	831.900	880.283	869.430	-	869.430	781.072	694.873	703.520	725.462	Continuing	Continuing
0:	-	831.900	880.283	869.430	-	869.430	781.072	694.873	703.520	725.462	Continuing	Continuing

#### Note

Project articles are U.S. tons of agent destroyed. Total ACWA Program is 3,136 tons.

#### A. Mission Description and Budget Item Justification

The Assembled Chemical Weapons Alternatives (ACWA) Program is a Category 1D Major Defense Acquisition Program responsible for destroying that portion of the U.S. inventory of lethal chemical agents and munitions stored at the Pueblo Chemical Depot in Colorado and the Blue Grass Army Depot in Kentucky. The ACWA Program is part of the Chemical Demilitarization Program, which is a congressionally-mandated program. The Chemical Demilitarization Program supports the international initiatives to rid the world of chemical weapons, as enunciated in the Chemical Weapons Convention (CWC). Consistent with Public Law 104-208 (the Omnibus Consolidated Appropriation Act for FY 1997), the Office of the Secretary of Defense has direct oversight of the ACWA Program. In 2002, Public Law 107-248 assigned the Program Manager (PM) ACWA 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. In June 2011, DoD certified a restructured ACWA program pursuant to section 2433a of title 10, United States Code. In March 2012, the ACWA program received Milestone B approval and an approved Acquisition Program Baseline that reflects revised cost and schedule estimates. The restructured ACWA program and the Program Executive Office (PEO) estimates underlying the restructured program are the basis for the program milestones and funding requirements reflected in this document. In October 2012, PM ACWA was redesignated to a PEO.

Funds are required for the ACWA Program in FY 2020 to support the activities at the Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) in Colorado and the Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) in Kentucky. The activities at PCAPP will include the following efforts. PCAPP Main Plant: continuation of chemical-agent operations, and PCAPP EDT: Completion of facilitization and systemization of PCAPP SDCs, beginning of PCAPP SDC chemical-agent operations and continuation of energetics destruction at Anniston SDC. The ACWA program activities at the Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) will include the following efforts. BCGAPP Main Plant: completion of systemization and start of chemical-agent operations, and BGCAPP EDT: completion of chemical-agent campaign.

PE 0708083D: ACWA- Assembled Chemical Weapons Alterna... Chemical Demilitarization Program Page 1 of 3

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Chem	nical Demilitar	ization Program		Date:	February 2019				
Appropriation/Budget Activity 0390D: Chem Agents & Munitions Destruction I BA 2: RDT&E		R-1 Program Element (Number/Name) PE 0708083D / ACWA- Assembled Chemical Weapons Alternatives							
B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total				
Previous President's Budget	831.900	880.283	922.511	-	922.511				
Current President's Budget	831.900	880.283	869.430	-	869.430				
Total Adjustments	0.000	0.000	-53.081	-	-53.081				
<ul> <li>Congressional General Reductions</li> </ul>	-	-							
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-							
<ul> <li>Congressional Rescissions</li> </ul>	-	-							
Congressional Adds	-	-							
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-							
<ul> <li>Reprogrammings</li> </ul>	-	-							
SBIR/STTR Transfer	-	-							
<ul> <li>Re-evaluation of requirements resulting in budget reduction</li> </ul>	-	-	-53.081	-	-53.081				

UNCLASSIFIED	
--------------	--

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: The Assembled Chemical Weapons Alternatives (ACWA) Program	831.900	880.283	869.430
<b>Description:</b> FY 2018 Accomplishments PCAPP Main Plant - continuation of chemical-agent operations. PCAPP EDT - continuation of second EDS operations campaign and continuation of energetics destruction at Anniston SDC.			
BGCAPP Main Plant - continuation of main plant systemization. BGCAPP EDT - continuation of BGCAPP SDC systemization.			
<b>FY 2019 Plans:</b> PCAPP Main Plant - continuation of chemical-agent operations. PCAPP EDT - completion of EDS operations and continuation of energetics destruction at Anniston SDC.			
BGCAPP Main Plant - continuation of main plant systemization. BGCAPP EDT - start of chemical-agent campaign			
<b>FY 2020 Plans:</b> PCAPP Main Plant - continuation of chemical-agent operations. PCAPP EDT - completion of facilitization and systemization of PCAPP SDCs, start of PCAPP SDC chemical-agent operations and continuation of energetics destruction at Anniston SDC.			
BGCAPP Main Plant - completion of systemization and start of chemical-agent operations.			

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Chemical D	Date: February 2019				
Appropriation/Budget Activity 0390D: Chem Agents & Munitions Destruction I BA 2: RDT&E	ons Alternati				
C. Accomplishments/Planned Programs (\$ in Millions) BGCAPP EDT - completion of chemical-agent campaign		FY 2018	FY 2019	FY 2020	
FY 2019 to FY 2020 Increase/Decrease Statement: Re-evaluation of requirements resulting in budget reduction.					
	Accomplishments/Planned Programs Subtotals	831.900	880.283	869.430	

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

#### E. Acquisition Strategy

The ACWA Program is overseen by a program executive office, the PEO ACWA, headquartered at the Edgewood area of Aberdeen Proving Ground, Maryland. The program is primarily executed through systems contracts to design, construct, test, and operate main plants. The main plants will use first-of-a-kind (FOAK) disassembly equipment and neutralization destruction technology for the chemical agent and the munition body followed by on-site treatment of the neutralization by-product using biotreatment at Pueblo and supercritical water oxidation (SCWO) at Blue Grass.

Two systems contracts, i.e., one per site, were competitively awarded to: Bechtel National Incorporated in 2002 for Pueblo Chemical Depot, Colorado, and to Bechtel Parsons Blue Grass (a Joint Venture) in 2003 for Blue Grass Army Depot, Kentucky. These contracts were originally awarded as indefinite delivery / indefinite quantity (IDIQ) task order contracts. However, due to program delays after award of these contracts and the ten-year ordering period for IDIQ contracts, the systems contracts were restructured to life-cycle service contracts to remove the IDIQ provisions, cover the balance of the work to be performed, and retain the multi-year authorization of the National Defense Authorization Act for FY 2007. Restructuring of the systems contracts was briefed to and endorsed by the Director, Defense Procurement and Acquisition Policy in 2008, and effected in 2009. The systems contracts are cost reimbursable type (CPAF) contracts.

#### F. Performance Metrics

The DoD uses the percentage of treaty-declared category 1 chemical weapons destroyed per year of operations, as a performance measure for the Chemical Demilitarization Program. This measure applies to the ACWA Program when destruction operations begin.

PE 0708083D: ACWA- Assembled Chemical Weapons Alterna... Chemical Demilitarization Program UNCLASSIFIED Page 3 of 3

(In Thousands of Dollars)
FY 2020 Estimate \$2,218
FY 2019 Enacted \$1,091
FY 2018 Actual \$18,081

### Purpose and Scope

This budget activity provides for the procurement of process and support equipment to support Chemical Stockpile Emergency Preparedness Project (CSEPP) and RCWM Program Support Functions. In addition, it provides for the procurement of assessment, destruction, and neutralization equipment in support of the United States Chemical Demilitarization Program to safety and effectively assess and destroy recovered chemical warfare material. 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 2020 budget request provides for continued acquisition of CSEPP alert notification system equipment for Madison County, Kentucky, and for replacement microwave repeater equipment for Estill County, Kentucky.

Funded Financial Sum	nmary		
(In Thousands of Dol	lars)		
	FY 2018	FY 2019	FY 2020
	Actual	Enacted	Estimate
Chemical Demilitarization Equipment			
Recovered Chemical Warfare Material Program	0	0	0
Subtotal	0	0	0
CSEPP On-Post - Mission	1,294	0	0
CSEPP Off-Post - Mission	16,787	1,091	2,218
Subtotal	18,081	1,091	2,218
Total Funded	18,081	1,091	2,218

# Justification by Program

<u>Chemical Stockpile Emergency Preparedness Project (CSEPP) Off-Post</u>: FY 2020 funds will be used by Madison County, Kentucky, to continue replacement of Adviser Alert Radio System equipment and by Estill County, Kentucky, to replace microwave repeater equipment for their radio communications infrastructure.

Exhibit P-40, Budget Line Item	Justificatio	n: PB 2020	Chemical [	Demilitarizat	tion Program	n			Date: Fe	ebruary 201	19					
Appropriation / Budget Activity 0390D: Chem Agents & Munitions Procurement				t / BSA 1:		P-1 Line Item Number / Title: 0708081D / Chemical Demilitarization Equipment										
ID Code (A=Service Ready, B=Not Service Ready):			Program Ele	ments for Co	de B Items: N	/A		Other Relate	d Program Ele	ements: N/A						
Line Item MDAP/MAIS Code: N/A																
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total				
Procurement Quantity (Units In Each)	-	-	-	-	-	-	-	-	-	-	-	-				
Gross/Weapon System Cost (8 in Millions)	2,496.886	18.081	1.091	2.218	-	2.218	2.067	0.276	0.394	0.460	16.200	2,536.663				
Less PY Advance Procurement (8 in Millions)	-	-	-	-	-	-	-	-	-	-	-	-				
Net Procurement (P-1) (8 in Millions)	2,496.886	18.081	1.091	2.218	-	2.218	2.067	0.276	0.394	0.460	16.200	2,536.663				
Plus CY Advance Procurement (8 In Millions)	-	-	-	-	-	-	-	-	-	-	-	-				
Total Obligation Authority (8 in Millions)	2,496.886	18.081	1.091	2.218	-	2.218	2.057	0.276	0.394	0.460	15.200	2,536.663				
(The following	g Resource Sumi	mary rows are fo	or informational p	urposes only. Ti	e corresponding	pudget request	s are documente	d elsewhere.)								
Initial Spares (8 In Millions)	-	-	-	-	-	-	-	-	-	-	-	-				
Flyaway Unit Cost (8 In Millions)	-	-	-	-	-	-	-	-	-	-	-	-				
Gross/Weapon System Unit Cost (8 In Millions)	-	-	-	-	-	-	-	-	-	-	-	-				

#### Description:

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, equipment to support the closure of incineration facilities, Chemical Stockpile Emergency Preparedness Project (CSEPP) equipment, and assessment, destruction, and neutralization capabilities, in support of the United States Chemical Demilitarization Program, to safely and effectively assess and treat Recovered Chemical Warfare Materiel.

Exhibit Type       Title*       ID Subexhibits       MDAP/ CO       Quantity / Total Coct (Each) / (8 M)       Quantity / Total Coct (Each) / (8 M) <th>h m m r /</th> <th>printion / Dudget Activity / Dudget Sub /</th> <th>Activity</th> <th></th> <th></th> <th></th> <th>D.4 Line Item Nu</th> <th>mbor / Titlor</th> <th></th> <th></th> <th></th>	h m m r /	printion / Dudget Activity / Dudget Sub /	Activity				D.4 Line Item Nu	mbor / Titlor				
Or Occurrement       D Code (A#Service Ready, B=Not Service Ready):       Program Elements for Code B Items: N/A       Other Related Program Elements: N/A         Ine Item MDAP/MAIS Code: N/A       Exhibits Schedule       Prior Years       FY 2018       FY 2019       FY 2020 Base       FY 2020 OCO       FY 201         Exhibits Schedule       Prior Years       FY 2018       FY 2019       FY 2020 Base       FY 2020 OCO       FY 202         Exhibits       Title*       Bubexhibits       ID       MDAP/ Gode       Quantity / Total Cost (Each) / (8 M)       Quantity / Total Cost (Each) / (8 M) </th <th></th> <th></th> <th></th> <th>ouro</th> <th>mont /</th> <th></th> <th></th> <th></th> <th>tion Equipment</th> <th></th> <th></th>				ouro	mont /				tion Equipment			
Code (A-Sorvice Ready, B=Not Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code (B Items: N/A Code (A-Sorvice Ready): Program Elements for Code B Items: N/A Other Related Program Elements: N/A Code (A-Sorvice Ready): Program Elements for Code (B Items: N/A Code (A-Sorvice Ready): Program Elements for Code (B Items: N/A Code (Each) / (B M) (Each) /			A 03. PIO	cure	ment/	BSA I.	0708081D7 Chem	lical Demilitarizat	ion Equipment			
Inter       MDAP/MAIS Code: N/A       Exhibits Schedule       Prior Years       FY 2018       FY 2019       FY 2020 Base       FY 2020 OCO       FY 202         Exhibit       Subexhibits       ID       MDAP/ ID       Guantity / Total Coet (Each // 8.40)       G	TOCU	rement										
Exhibits Schedule       Prior Years       FY 2018       FY 2019       FY 2020 Base       FY 2020 OCO       FY 2020 OCO         Exhibit       Title*       Subexhibits       D       MDAP/ Code       Guantity / Total Coet (Each) / (8 M)       Guantity / Total Coet (Each)	D Cod	8 (A=Service Ready, B=Not Service Ready):	Pro	ograi	m Eleme	ents for Code B Ite	ms: N/A	Other F	Related Program Ele	ments: N/A		
Exhibit Type         Title*         Bubexhibite         ID CD         MDAP/ MAIS Code         Guantity / Total Coet (Each) / (8 M)	ine Ite	m MDAP/MAIS Code: N/A										
Exhibit       Did       Mail       Guantity / Total Coot (Each) / 8 M/       M Dot       M Dot       M Dot       M D		Exhibits Schedule				Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Tota	
Add       Total Gross/Weapon System Cost       - / 2,498,888       - / 18,081       - / 1,091       - / 2,218       - / -         Exhibits       Schedule       FY 2021       FY 2022       FY 2023       FY 2024       To Complete       To         Exhibit       Title*       Subexhibits       Of       MDAP/ Code       Guantity / Total Cost (Each) / (8 M)       Guantity / Total Cost (Each)		Titie*	Subexhibits		MAIS						Quantity / Total Co (Each) / (8 M)	
Exhibits Schedule       FY 2021       FY 2022       FY 2023       FY 2024       To Complete         Exhibit       Title*       Subexhibits       ID       MDAP/ MAIS       Guantity / Total Cost (Each) / (8 M)	-40a	Various				- /2,496.886	- / 18.081	- / 1.091	- /2.218	- 1 -	- /2.218	
Exhibit         Title*         Bubexhibits         ID         MDAP/ MAIS         Guantity / Total Cost (Each) / (8 M)         Guantit	-40	Total Gross/Weapon System Cost				- /2,498.888	- / 18.081	- / 1.091	- /2.218	- 1 -	- /2.218	
Exhibit Type       Title*       ID Subexhibits       MAIS CD       Guantity / Total Coct (Each) / (8 M)       Guantity / Total Coct (Each) / (8 M) <td></td> <td>Exhibits Schedule</td> <td></td> <td></td> <td></td> <td>FY 2021</td> <td>FY 2022</td> <td>FY 2023</td> <td>FY 2024</td> <td>To Complete</td> <td colspan="2">Total</td>		Exhibits Schedule				FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total	
40       Total Groce/Weapon System Cost       - / 2.067       - / 0.276       - / 0.384       - / 0.480       - / 16.200       - / 16.200       - / 16.200       - / 16.200       - / 0.480       - / 16.200       - / 16		Titie*	Subexhibits		MAIS						Quantity / Total Co (Each) / (8 M)	
Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification T/pe) for Modifications. Title represents the P-40a Title when only the P-40a Summar//Total Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. Justification: Chemical Stockpile Emergency Preparedness Project (CSEPP) Off-Post: FY 2020 funds will be used by Madison County, Kentucky, to continue replacement of Adviser Alert Radio System equipment,	-40a	Various				- / 2.057	- /0.276	- / 0.394	- /0.460	- / 15.200	- / 2,536.663	
lote: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. Justification: Chemical Stockpile Emergency Preparedness Project (CSEPP) Off-Post: FY 2020 funds will be used by Madison County, Kentucky, to continue replacement of Adviser Alert Radio System equipment,	-40	Total Gross/Weapon System Cost				- / 2.067	- /0.278	- / 0.384	- /0.480	- / 16.200	- / 2,538.663	
Chemical Stockpile Emergency Preparedness Project (CSEPP) Off-Post: FY 2020 funds will be used by Madison County, Kentucky, to continue replacement of Adviser Alert Radio System equipment,		<u> </u>	-		uon, ana	or of the Number 7 Has	e (woonicatori type) for w	rouncators. The repre-	sents are r 40a mae wit	en only the P-40a Outlin	ally rotal is shown	
	Chemi	cal Stockpile Emergency Preparedness Project (CSEP						cky, to continue repla	acement of Adviser A	lert Radio System eq	uipment, and by	

-	bit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Chemical Demilitarization Program       Date: February 2019         propriation / Budget Activity / Budget Sub Activity:       P-1 Line Item Number / Title:       Aggregated Items Title:																			
Appropriation / 0390D / 03 / 1	Bu	idget	Activity	/ Budg	jet Sub /	Activity						ation Eq	uipment			ggregat arious	ted Item	s Title:		
		P	rior Year	s	FY 2018				FY 2019		FY 2020 Base			FY 2020 OCO			FY 2020 Total			
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (8 M)									
Other Programs																				
001 / RCWM-P			-	-	73.168	-	-	-	-		-	-	-	-		-	-	-	-	
002 / CSEPP	$\square$			-	532.410			18.081			1.091			2.218	-	-		-		2.2
003 / DIRECTOR, CMA SUPPORT ACTIVITIES				-	1.727	-		-	-		-	-	-	-			-	-	-	
Subtotal: Other Programs			-	-	607.305	-		18.081	-		1.091		-	2.218		-	-	-		2.2
Facilities																		·		
001 / TOOELE CHEMICAL AGENT DISPOSAL FACILITY			-	-	401.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
002 / UMATILLA CHEMICAL AGENT DISPOSAL FACILITY			-	-	410.047	-	-	-	-	-	-	-	-	-	-	-	-	-		
003 / JOHNSTON ATOLL CHEMICAL AGENT DISPOSAL FACILITY			-	-	56.928	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
004 / CHEMICAL AGENT MUNITIONS DISPOSAL SYSTEM			-	-	27.630	-	-	-	-	-	-	-	-	-	-	-	-	-		
005 / CHEMICAL DEMILITARIZATION TRAINING FACILITY			-	-	24.885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
006 / ANNISTON CHEMICAL AGENT DISPOSAL FACILITY			-	-	380.884	-	-	-	-	-	-	-	-	-	-	-	-	-		
007 / PINE BLUFF CHEMICAL AGENT DISPOSAL FACILITY			-	-	328.806	-	-	-	-	-	-	-	-	-	-	-	-	-		
008 / PM-CSE SUPPORT ACTIVITIES			-	-	225.762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
009 / EARLY CHEMICAL STOCKPILE DISPOSAL PROGRAM			-	-	33.632	-	-		-				-	-	-	-	-	-	-	
Subtotal: Facilities	_		-	-	1,889.581	-		-	-		-		-	-	-	-	-	•		
Total			-	-	2,496.886	-	-	18.081	-	-	1.091	-	-	2.218	-	-	-	-	-	2.2
				FY 2021			FY 2022			FY 2023			FY 2024		T	o Comple	te	ד	otal Cost	t
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (8 M)									

LI 0708081D - Chemical Demilitarization Equipment Chemical Demilitarization Program

# UNCLASSIFIED

# Page 3 of 4

P-1 Line #1

Appropriation / 0390D / 03 / 1	Вι	idget	Activity	/ Budg	jet Sub /	Activity		P- <b>1 Line</b> 0708081				ation Eq	uipment			ggregat arious	ed Item	s Title:		
	FY 2021						FY 2022		FY 2023			FY 2024			Te	o Complet	te	Total Cost		
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (8 M)	Unit Cost	Qty (Each)	Total Cost (8 M)
001 / RCWM-P			-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.200		-	88.3
002 / CSEPP			-	-	2.057	-	-	0.276	-	-	0.394	-	-	0.460	-	-	-	-	-	556.9
003 / DIRECTOR, CMA SUPPORT ACTIVITIES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.
ubtotal: Other Program	s				2.057			0.276			0.394			0.460			15.200			647.
aoliities																		I		
001 / TOOELE CHEMICAL AGENT DISPOSAL FACILITY			-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	401.0
002 / UMATILLA CHEMICAL AGENT DISPOSAL FACILITY			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	410.0
003 / JOHNSTON ATOLL CHEMICAL AGENT DISPOSAL FACILITY			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56.
004 / CHEMICAL AGENT MUNITIONS DISPOSAL SYSTEM			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	27.
005 / CHEMICAL DEMILITARIZATION TRAINING FACILITY			-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	24.
006 / ANNISTON CHEMICAL AGENT DISPOSAL FACILITY			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	380.
007 / PINE BLUFF CHEMICAL AGENT DISPOSAL FACILITY			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	328.
008 / PM-CSE SUPPORT ACTIVITIES			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	225.7
009 / EARLY CHEMICAL STOCKPILE DISPOSAL PROGRAM				-	-	-			-		-	-	-	-	-		-	-	-	33.0
ubtotal: Facilities	_		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,889.0
otal					2.067		-	0.276	-		0.394			0.460			16,200		-	2,538.0

LI 0708081D - Chemical Demilitarization Equipment Chemical Demilitarization Program UNCLASSIFIED Page 4 of 4

P-1 Line #1