

**FISCAL YEAR (FY) 2022
BUDGET ESTIMATES**

May 2021



CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

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**FISCAL YEAR (FY) 2022 BUDGET ESTIMATES
CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE**

<u>TABLE OF CONTENTS</u>	<u>PAGE NO</u>
APPROPRIATION LANGUAGE	1
APPROPRIATION JUSTIFICATION	2
PART I - PURPOSE AND SCOPE	
PART II - JUSTIFICATION OF FUNDS REQUIRED	
PART III - MILESTONES	
BUDGET ACTIVITY 1: OPERATIONS AND MAINTENANCE	9
PURPOSE AND SCOPE	
JUSTIFICATION OF FUNDS REQUIRED	
JUSTIFICATION BY PROGRAM	
EXHIBIT OP-5	
EXHIBIT OP-32	
BUDGET ACTIVITY 2: RESEARCH, DEVELOPMENT, TEST AND EVALUATION	22
PURPOSE AND SCOPE	
JUSTIFICATION OF FUNDS REQUIRED	
FUNDED FINANCIAL SUMMARY	
JUSTIFICATION BY PROGRAM	
EXHIBIT R-1	
EXHIBIT R-2	
BUDGET ACTIVITY 3: PROCUREMENT	36
PURPOSE AND SCOPE	
JUSTIFICATION OF FUNDS REQUIRED	
FUNDED FINANCIAL SUMMARY	
JUSTIFICATION BY PROGRAM	
EXHIBIT P-40	

CHEMICAL AGENTS AND MUNITIONS DESTRUCTION, DEFENSE

APPROPRIATION LANGUAGE

Fiscal Year 2022

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, \$1,094,352,000 of which:

(1) \$93,121,000 shall be for operations and maintenance, of which not less than \$48,668,000 shall be for the Chemical Stockpile Emergency Preparedness Program, consisting of \$22,134,000 for activities on military installations and \$26,534,000 to remain available until September 30, 2023, to assist State and local governments;

(2) \$1,001,231,000 to remain available until September 30, 2023, shall be for research, development, test and evaluation, of which \$995,011,000 shall be only for the Assembled Chemical Weapons Alternatives (ACWA) Program;

(3) \$0 to remain available until September 30, 2024, shall be for procurement for the Chemical Stockpile 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 2022 Estimate	\$1,094,352
FY 2021 Enacted	\$1,049,800
FY 2020 Actual	\$992,144

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 providing execution of the Chemical Stockpile Emergency Preparedness Program (CSEPP), and for supporting the Recovered Chemical Warfare Material (RCWM) Program by managing and providing the 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 Program Support Functions are adequately funded 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 Program Support Functions are a critical aspect to the execution of DoD's RCWM Program that include: sustainment and training of personnel, and maintenance of equipment in a deployable state for assessment and destruction of RCWM; support of explosives or munitions emergencies that involve munitions and certain materials of interest that contain an unknown liquid fill; 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 Materiel Directorate (RCMD) also includes transporting munitions and certain materials of interest, RCWM or research material to support an assessment, secure storage, destruction efforts, and research and development efforts as necessary. Transport of munitions and certain materials of interest, RCWM and research material 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 20th Support Command.

The Chemical Stockpile Emergency Preparedness Program(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 reflected 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. On June 7, 2019, the SDC 1200 at Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) started operations. On January 17, 2020, the BGCAPP Main Plant started 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 2022 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 2022 that require funding.

The Chemical Demilitarization Program will continue to support the Recovered Chemical Warfare Material (RCWM) Program by ensuring the RCWM Program Support Functions are adequately funded in the United States.

The Chemical Stockpile Emergency Preparedness Program (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: Continuation of chemical agent destruction operations at PCAPP Main Plant and SDCs, 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: Continuation of chemical agent destruction operations at the BGCAPP Main Plant, and BGCAPP SDCs; Start of drained rocket warhead disposal operations at SDC 1200; start of over-packed rocket destruction and drained rocket warhead disposal operations at the SDC 2000; and start of rocket motors destruction at Anniston SDC.

Part III - Milestones

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

This is a level of effort mission area through the end of the U.S. Chemical Demilitarization Program that provides an enduring capability to assess munitions and certain materials of interest and destroy such determined to be RCWM within the United States including: the assessment, packaging, transportation, storage, destruction, and related waste management.

December 2014 to FY 2027

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

Cessation of response capabilities and initiation of closeout following the completion of demilitarization and surety operations at

Pueblo Chemical Depot, Colorado

1st Qtr FY 2024

Blue Grass Chemical Activity, Kentucky

1st Qtr FY 2025

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

PCAPP:

- Main Plant: continue 105mm mustard agent-filled projectile destruction FY 2022
- PCAPP SDC: continue 4.2in mustard agent-filled mortar destruction FY 2022
- Anniston SDC: continue munition energetics destruction FY 2022

BGCAPP:

- Main Plant: complete M55/M56 VX nerve agent-filled rocket destruction FY 2022
- Main Plant: start and complete changeover for M55/M56 GB nerve agent-filled rocket destruction FY 2022
- Main Plant: start M55/M56 GB nerve agent-filled rocket destruction FY 2022
- BGCAPP SDC 1200: complete installation and systemization - start containerized

M55/M56 VX nerve agent-drained rocket warhead secondary waste disposal	FY 2022
- BGCAPP SDC 2000: complete installation and systemization - start and complete M55/M56 GB nerve agent-filled over-packed rocket destruction and start M55/M56 GB nerve agent-drained rocket warhead secondary waste disposal	FY 2022
- Anniston SDC: start rocket motor destruction	FY 2022

Budget Activity 1: Operation and Maintenance

(In Thousands of Dollars)	
FY 2022 Estimate	\$93,121
FY 2021 Enacted	\$106,691
FY 2020 Actual	\$99,096

Purpose and Scope

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

Justification of Funds Required

Funds requested in FY 2022 are necessary to maintain support to the Chemical Demilitarization Program. Operations financed by this budget activity in FY 2022 include:

- (1) Support of the RCWM Program Support Functions within the United States include the maintenance and logistics support for RCWM mobile systems and supporting equipment required for the assessment of munitions and certain materials of interest and the destruction of such determined to be RCWM.

- (2) Chemical Stockpile Emergency Preparedness Program (CSEPP) support for enhanced emergency preparedness and response capabilities at the State and local levels of government and at the remaining two operational chemical weapons 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.

Budget Activity 1: Operation and Maintenance

Justification by Program

Recovered Chemical Warfare Material (RCWM) Program Support Functions:

Sustainment of Personnel: The FY 2022 budget request will fund the following personnel: RCMD office; matrix labor support, and sustainment and training of Mobile Munitions Assessment System (MMAS) and Explosive Destruction System (EDS) crews provided by the U.S. Army Combat Capabilities Development Command Chemical and Biological Center (DEVCOM CBC).

Maintenance of Equipment: The FY 2022 budget request will fund activities, across multiple performers, to ensure CMA maintains configuration control assessment and destruction assets and ensure such assets are maintained in a deployable condition. The FY 2022 budget request also provides for the use of the Chemical Demilitarization Training Facility to support this ongoing mission.

Support to Explosives and Munitions Response: The FY 2022 budget request will fund the capability to assess munitions and certain materials of interest and destroy such determined to be RCWM within the United States. This includes, if required, the capability to package, transport, store and dispose of generated hazardous waste.

Programmatics: The FY 2022 budget request will fund programmatic activities such as: contract evaluation support, development of planning and operational documentation, program and public affairs activities, and CMA Headquarters management and oversight of the RCWM Program Support Functions.

Archive Research: The FY 2022 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 Materiel Directorate (RCMD) is located at Aberdeen Proving Ground, Maryland, and is the government's technical organization that manages the provision of the RCWM Program Support Functions. The primary Army activity that currently supports RCMD in the provision of the RCWM Program Support Functions is the Combat

Budget Activity 1: Operation and Maintenance

Capabilities Development Command Chemical Biological Center (DEVCOM CBC), Edgewood, Maryland; Other government agencies and contractors: 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 Program:

On-Post Program Management: The FY 2022 budget request will fund personnel, program support and oversight, travel, supplies and contract support.

On-Post Mission: The FY 2022 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 2022 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.

Budget Activity 1: Operation and Maintenance

**Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates**

**Operation and Maintenance, Defense-Wide Summary (\$ in thousands)
Budget Activity (BA) 4: Administration and Service-wide Activities**

	<u>FY 2020</u> <u>Actuals</u>	<u>Price</u> <u>Change</u>	<u>Program</u> <u>Change</u>	<u>FY 2021</u> <u>Enacted</u>	<u>Price</u> <u>Change</u>	<u>Program</u> <u>Change</u>	<u>FY 2022</u> <u>Estimate</u>
Chem Demil	99,096	1,976	5,619	106,691	2,151	-15,721	93,121

* The FY 2020 Actuals column includes \$0.0 thousand of FY 2020 OCO Appropriations Funding (PL 116-83).

* The FY 2021 Enacted column excludes \$0.0 thousand of FY 2021 OCO Appropriations Funding.

* The FY 2022 Estimate column excludes \$0.0 thousand of FY 2022 OCO Appropriations Funding.

I. Description of Operations Financed:

See Pages 8 - 10 of this document.

II. Force Structure Summary:

Not Applicable.

Budget Activity 1: Operation and Maintenance

Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates

III. Financial Summary (\$ in Thousands):

	FY 2020 <u>Actuals</u>	Budget <u>Request</u>	FY 2021			Current <u>Enacted</u>	FY 2022 <u>Estimate</u>
			<u>Congressional Action</u>				
			<u>Amount</u>	<u>Percent</u>	<u>Appropriated</u>		
A. BA Subactivities							
CSEPP	\$52,452	\$51,009	\$0	0.00%	\$51,009	\$51,009	\$48,668
Off-Post Mission	\$30,008	\$28,774	\$0	0.00%	\$28,774	\$28,774	\$26,534
On-Post Mission	\$20,011	\$20,005	\$0	0.00%	\$20,005	\$20,005	\$19,570
On-Post Program Management	\$2,433	\$2,230	\$0	0.00%	\$2,230	\$2,230	\$2,564
RCWM Program Support Functions	\$46,644	\$55,682	\$0	0.00%	\$55,682	\$55,682	\$44,453
Archive Research	\$1,374	\$1,704	\$0	0.00%	\$1,704	\$1,704	\$1,361
Maintenance of Equipment	\$11,817	\$13,547	\$0	0.00%	\$13,547	\$13,547	\$8,874
Programmatics	\$13,572	\$13,372	\$0	0.00%	\$13,372	\$13,372	\$12,926
Support to Explosives and Munitions Response	\$7,044	\$10,921	\$0	0.00%	\$10,921	\$10,921	\$9,167
Sustainment of Personnel	\$12,837	\$16,138	\$0	0.00%	\$16,138	\$16,138	\$12,125
Total	\$99,096	\$106,691	\$0	0.00%	\$106,691	\$106,691	\$93,121

* The FY 2020 Actuals column includes \$0.0 thousand of FY 2020 OCO Appropriations Funding (PL 116-93).

* The FY 2021 Enacted column excludes \$0.0 thousand of FY 2021 OCO Appropriations Funding.

* The FY 2022 Estimate column excludes \$0.0 thousand of FY 2022 OCO Appropriations Funding.

Budget Activity 1: Operation and Maintenance

Chemical Demilitarization
 Operation and Maintenance, Defense-Wide
 Fiscal Year (FY) 2022 Budget Estimates

III. Financial Summary (\$ in Thousands): (Cont.)

	Change <u>FY 2021/FY 2021</u>	Change <u>FY 2021/FY 2022</u>
B. Reconciliation Summary		
BASELINE FUNDING	\$106,691	\$106,691
Congressional Adjustments (Distributed)	0	
Congressional Adjustments (Undistributed)	0	
Adjustments to Meet Congressional Intent	0	
Congressional Adjustments (General Provisions)	0	
SUBTOTAL APPROPRIATED AMOUNT	106,691	
Fact-of-Life Changes (2021 to 2021 Only)	0	
SUBTOTAL BASELINE FUNDING	106,691	
Supplemental	0	
Reprogrammings	0	
Price Changes		2,151
Functional Transfers		0
Program Changes		-15,721
CURRENT ESTIMATE	106,691	93,121
Less: Wartime Supplemental	0	
NORMALIZED CURRENT ESTIMATE	\$106,691	\$93,121

Budget Activity 1: Operation and Maintenance

**Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates**

III. Financial Summary (\$ in Thousands): (Cont.)

FY 2021 President's Budget Request (Amended, if applicable)	\$106,691
1. Congressional Adjustments.....	\$0
a) Distributed Adjustments.....	\$0
b) Undistributed Adjustments.....	\$0
c) Adjustments to Meet Congressional Intent.....	\$0
d) General Provisions	\$0
FY 2021 Appropriated Amount	\$106,691
2. War-Related and Disaster Supplemental Appropriations	\$0
a) OCO Supplemental Funding	\$0
3. Fact-of-Life Changes.....	\$0
a) Functional Transfers.....	\$0
b) Technical Adjustments.....	\$0
c) Emergent Requirements.....	\$0
FY 2021 Baseline Funding	\$106,691
4. Reprogrammings (Requiring 1415 Actions).....	\$0

Budget Activity 1: Operation and Maintenance

**Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates**

III. Financial Summary (\$ in Thousands): (Cont.)

a) Increases	\$0
b) Decreases.....	\$0
Revised FY 2021 Enacted	\$106,691
5. Less: Item 2, War-Related and Disaster Supplemental Appropriation and Item 4, Reprogrammings.....	\$0
a) Less: OCO Supplemental Funding	\$0
FY 2021 Normalized Current Enacted	\$106,691
6. Price Change.....	\$2,151
7. Functional Transfers.....	\$0
a) Transfers In.....	\$0
b) Transfers Out.....	\$0
8. Program Increases	\$289
a) Annualization of New FY 2021 Program	\$0
b) One-Time FY 2022 Increases	\$0
c) Program Growth in FY 2022	\$289
1) CSEPP On-Post - Program Management	\$289
Increase is due to higher CMA Headquarters oversight and support requirements. (FY 2021 Baseline: \$2,230 thousand)	

Budget Activity 1: Operation and Maintenance

**Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates**

III. Financial Summary (\$ in Thousands): (Cont.)

9. Program Decreases	\$-16,010
a) Annualization of FY 2021 Program Decreases	\$0
b) One-Time FY 2021 Increases	\$0
c) Program Decreases in FY 2022	\$-16,010
1) CSEPP Off-Post - Mission	\$-2,820
Decrease due to completion of periodic refresh of Colorado automation and Kentucky automation and communications equipment in FY21. (FY 2021 Baseline: \$28,774 thousand)	
2) CSEPP On-Post - Mission	\$-838
Decrease due to reductions in Blue Grass and Pueblo Chemical Activity operating costs and a decrease in the cost of technical support contracts. (FY 2021 Baseline: \$20,005 thousand)	
3) RCWM Program Support Functions - Archive Research	\$-377
Decrease based on historical costs incurred. (FY 2021 Baseline: \$1,704 thousand)	
4) RCWM Program Support Functions - Maintenance of Equipment.....	\$-4,947
Decrease is due to: less equipment upgrades and purchases projected in FY22 as compared to FY21, revised estimate for the Chemical Demilitarization Training Facility support and budget cuts. (FY 2021 Baseline: \$13,547 thousand)	
5) RCWM Program Support Functions - Sustainment of Personnel	\$-4,339
Decrease is due to: restructuring of mobile system crews to better reflect the program needs, elimination of RCMD positions and budget cuts. (FY 2021 Baseline: \$16,138 thousand)	
6) RCWM Programmatic	\$-715

Budget Activity 1: Operation and Maintenance

**Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates**

III. Financial Summary (\$ in Thousands): (Cont.)

Decrease based on revised estimates for contacted efforts.
(FY 2021 Baseline: \$13,372 thousand)

7) RCWM Support to Explosives and Munitions Emergency Response \$-1,974
Decrease is due to: reduced assessment and destruction efforts, reduced waste disposal contract and budget cuts.
(FY 2021 Baseline: \$10,921 thousand)

FY 2022 Budget Request\$93,121

Budget Activity 1: Operation and Maintenance

Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates

IV. Performance Criteria and Evaluation Summary:

Workload data not applicable.

Budget Activity 1: Operation and Maintenance

**Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates**

V. Personnel Summary:

<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Change FY 2020/ FY 2021</u>	<u>Change FY 2021/ FY 2022</u>
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Personnel Summary Explanations:

Workload data not applicable.

Budget Activity 1: Operation and Maintenance

Chemical Demilitarization
Operation and Maintenance, Defense-Wide
Fiscal Year (FY) 2022 Budget Estimates

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

	FY 2020 Program	Change from FY 2020 to FY 2021		FY 2021 Program	Change from FY 2021 to FY 2022		FY 2022 Program
		Price Growth	Program Growth		Price Growth	Program Growth	
121 PCS BENEFITS	37	1	-38	0	0	0	0
0199 TOTAL CIVILIAN PERSONNEL COMPENSATION	37	1	-38	0	0	0	0
308 TRAVEL OF PERSONS	59	1	263	323	6		329
0399 TOTAL TRAVEL	59	1	263	323	6	0	329
601 ARMY INDUSTRIAL OPERATIONS	246	0	-27	219	21	-16	224
0699 TOTAL OTHER FUND PURCHASES	246	0	-27	219	21	-16	224
912 RENTAL PAYMENTS TO GSA (SLUC)	0	0	14	14	0		14
914 PURCHASED COMMUNICATIONS (NON-FUND)	31	1	-26	6	0		6
920 SUPPLIES & MATERIALS (NON-FUND)	19	0	145	164	3		167
922 EQUIPMENT MAINTENANCE BY CONTRACT	0	0	989	989	20	0	1,009
923 FACILITIES SUST, REST, & MOD BY CONTRACT	6,473	129	4,478	11,080	222	-2,000	9,302
925 EQUIPMENT PURCHASES (NON-FUND)	2,540	51	-1,390	1,201	24		1,225
932 MGT PROF SUPPORT SVCS	13,194	264	-29	13,429	269	579	14,277
933 STUDIES, ANALYSIS & EVAL	52	1	-53	0	0	0	0
934 ENGINEERING & TECH SVCS	13,505	270	-2,180	11,595	232	4,355	16,182
957 OTHER COSTS (LAND AND STRUCTURES)	711	14	51	776	16	0	792
987 OTHER INTRA-GOVT PURCH	59,456	1,189	6,056	66,701	1,334	-18,639	49,396
989 OTHER SERVICES	2,773	55	-2,634	194	4	0	198
0999 TOTAL OTHER PURCHASES	98,754	1,974	5,421	106,149	2,124	-15,705	92,568
9999 GRAND TOTAL	99,096	1,976	5,619	106,691	2,151	-15,721	93,121

Budget Activity 2: Research, Development, Test & Evaluation

(In Thousands of Dollars)	
FY 2022 Estimate	\$1,001,231
FY 2021 Enacted	\$942,493
FY 2020 Actual	\$890,830

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 in support of the Chemical Demilitarization 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

RDT&E funds are required by the Joint Program Executive Office for Nuclear, Chemical, Biological, Radiological, Nuclear Defense (JPEO-CBRND) in direct support to the provisions of the RCWM Program Support Functions in FY 2022, 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; and multi-agent gas analysis, chemistry studies, EDS design and fabrication, and test and evaluation of novel technologies.

The Assembled Chemical Weapons Alternatives (ACWA) program activities at the Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) will include the following efforts: Continuation of chemical agent destruction operations at PCAPP Main Plant and SDCs, 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: Continuation of chemical agent destruction operations at the BGCAPP Main Plant,

Budget Activity 2: Research, Development, Test & Evaluation

Start of drained rocket warhead disposal operations at SDC 1200; start of over packed rocket destruction and drained rocket warhead disposal operations at the SDC 2000; and start of rocket motors destruction at Anniston SDC.

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 2020 Actual	FY 2021 Enacted	FY 2022 Estimate
Chemical Materials Activity (JPEO-CBD/CMA)			
RCWM-P RDT&E Projects	6,500	6,494	6,220
Subtotal JPEO-CBD/CMA	6,500	6,494	6,220
Assembled Cml Weapons Alternative Program			
Program Management			
Pueblo, CO	428,875	408,732	489,165
Blue Grass, KY	455,455	527,267	505,846
Subtotal ACWA	884,330	935,999	995,011
Total Funded	890,830	942,493	1,001,231

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 RDT&E projects for: the test, evaluation, and development of technologies for the Explosive Destruction System (EDS) process improvements; improvements to the Portable Isotopic Neutron Spectroscopy (PINS) and Digital Radiography and Computed Tomography (DRCT) analyses to provide enhanced assessment capabilities; multi-agent gas analysis; chemistry studies; and system development and testing.

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 permitting documentation to support construction, and operation of the two pilot plants, SDC, as well as public outreach and other program management activities. Costs for design and construction of pilot plants and SDC 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 Activity):

Program-Wide: FY 2022 budget request will fund continued EDS process improvements, EDS fabrication efforts, improvements to PINS and DRCT analyses, system development and testing, chemistry studies, multi-agent gas analysis, and the test and evaluation of novel chemical warfare material destruction technologies.

Budget Activity 2: Research, Development, Test & Evaluation

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

PCAPP: FY 2022 budget will fund the following efforts. PCAPP chemical agent destruction operations in the main destruction facility and PCAPP SDCs, and disposal of energetics at Anniston SDC. In addition, a portion of the FY 2022 budget will fund program office salaries, host installation support, contract management, and project support services by support contractors and other government agencies.

BGCAPP: FY 2022 budget will fund the following efforts. BGCAPP chemical agent destruction operations in the main destruction facility, disposal of drained rocket warheads in BGCAPP SDCs, and disposal of rocket motors at Anniston SDC. In addition, a portion of the FY 2022 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 Joint Program Executive Office for Nuclear, Chemical, Biological, Radiological, Nuclear Defense (JPEO-CBRND), is located in Edgewood, Maryland, and provides RDT&E support to the RCWM Program through direct support of CMA's RCMD to support the provisions of the RCWM Program Support Functions. Other government agencies and contractors: 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 responsible for the implementation of alternatives to the baseline incineration process for the demilitarization of chemical munitions. A contract to design, build, test, systemize, 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

Budget Activity 2: Research, Development, Test & Evaluation

design, build, test, systemize, 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. In August 2020, the PEO ACWA decided not to use the SCWO system due to safety and operational concerns. The BGCAPP contract will be modified to support the shipment and ultimate treatment of the neutralized agent by-product at an offsite treatment facility

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 2022 funds in the Chemical Agents and Munitions Destruction, Defense appropriation will be used in the support of the RCWM Program Support Functions for sustainment of personnel; maintenance and improvement of equipment, including configuration management; and ensuring capabilities to respond, package, and assess munitions and certain materials of interest with an unknown liquid fill as part of support of the RCWM Program within the United States.

Budget Activity 2: Research, Development, Test & Evaluation

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Chemical Demilitarization Program • Budget Estimates FY 2022 • RDT&E Program

Exhibit R-1

(Listing by Budget Activity, then Program Element Number)

BA# 02: RDT&E

Line#	BA#	PE#	PE Title	Cost (\$ in Millions)					
				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
1	02	07080810	Chemical Materials Activity	1,419.854	6.500	6.494	6.220	-	6.220
2	02	07080830	ACWA - Assembled Chemical Weapons Alternatives	7,157.400	884.330	935.999	995.011	-	995.011
Total: RDT&E				8,577.254	890.830	942.493	1,001.231	-	1,001.231

UNCLASSIFIED

Exhibit R-1

Page 1 of 1

Volume 1 - ix

Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Chemical Demilitarization Program											Date: May 2021	
Appropriation/Budget Activity 0390D: Chem Agents & Munitions Destruction I BA 2: RDT&E					R-1 Program Element (Number/Name) PE 0708081D I Chemical Materials Activity							
COST (\$ in Millions)	Prior Years (+)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	1,419.854	6.500	6.494	6.220	-	6.220	-	-	-	-	Continuing	Continuing
0708081D - 3: Recovered Chemical Warfare Material (RCWM) Program Support Functions - RDT&E Projects	6.445	6.500	6.494	6.220	-	6.220	-	-	-	-	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.

Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Chemical Demilitarization Program				Date: May 2021	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
0390D: Chem Agents & Munitions Destruction I BA 2: RDT&E		PE 0708081D I Chemical Materials Activity			
B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	6.500	6.494	6.458	-	6.458
Current President's Budget	6.500	6.494	6.220	-	6.220
Total Adjustments	0.000	0.000	-0.238	-	-0.238
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Economic and Inflation Adjustments	-	-	-0.238	-	-0.238
Change Summary Explanation					
Economic Adjustments EA008 Infl Rate Non Pay Non Fuel decreased FY 2022 funding.					

Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Chemical Demilitarization Program											Date: May 2021		
Appropriation/Budget Activity 0390D I 2					R-1 Program Element (Number/Name) PE 0708081D I Chemical Materials Activity				Project (Number/Name) 0708081D - 3 I Recovered Chemical Warfare Material (RCWM) Program Support Functions - RDT&E Projects				
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost	
0708081D - 3: Recovered Chemical Warfare Material (RCWM) Program Support Functions - RDT&E Projects	6.445	6.500	6.494	6.220	-	6.220	-	-	-	-	Continuing	Continuing	
A. Mission Description and Budget Item Justification													
This project includes costs for Explosive Destruction System (EDS) process improvements; Portable Isotopic Neutron Spectroscopy (PINS) and Digital Radiography and Computed Tomography (DRCT) analyses to provide improved assessment capabilities, testing of alternative non-intrusive assessment technology, multi-agent gas analysis, chemistry studies, and system development and testing.													
B. Accomplishments/Planned Programs (\$ in Millions)											FY 2020	FY 2021	FY 2022
Title: Recovered Chemical Warfare Material (RCWM) Program Support Functions – RDT&E Projects											6.500	6.494	6.220
Description: FY 2020 Accomplishments: Continue EDS process improvements, PINS and DRCT analyses, chemistry studies, and system development.													
FY 2021 Plans: Continue EDS process improvements, PINS and DRCT analyses, chemistry studies, and system development and testing.													
FY 2022 Plans: Continue EDS process improvements, PINS and DRCT analyses, chemistry studies, and system development and testing.													
FY 2021 to FY 2022 Increase/Decrease Statement: Economic Adjustments EA007 CIVPAY and EA008 Infl Rate Non Pay Non Fuel decreased our funding for FY22.													
Accomplishments/Planned Programs Subtotals											6.500	6.494	6.220
C. Other Program Funding Summary (\$ in Millions)													
Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost		
• 0390 O&M/0708081D:: CAMD,D O&M	46.644	55.682	44.453	-	44.453	-	-	-	-	Continuing	Continuing		
• 0390 PROC/0708081D:: CAMD,D PROC	-	-	-	-	-	-	-	-	-	Continuing	Continuing		

Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Chemical Demilitarization Program		Date: May 2021
Appropriation/Budget Activity 0390D / 2	R-1 Program Element (Number/Name) PE 0708081D / Chemical Materials Activity	Project (Number/Name) 0708081D - 3 / Recovered Chemical Warfare Material (RCWM) Program Support Functions - RDT&E Projects

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
Remarks											
D. Acquisition Strategy											
N/A											

PE 0708081D: Chemical Materials Activity
Chemical Demilitarization Program

UNCLASSIFIED
Page 4 of 4

R-1 Line #1

Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Chemical Demilitarization Program										Date: May 2021		
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							
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	7,157.400	884.330	935.999	995.011	-	995.011	-	-	-	-	Continuing	Continuing
0: 0708083D: ACWA-Assembled Chemical Weapons Alternatives	7,157.400	884.330	935.999	995.011	-	995.011	-	-	-	-	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 re-designated to a PEO.

Funds are required for the Assembled Chemical Weapons Alternatives (ACWA) Program in FY 2022 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. Program activities at the PCAPP will include the following efforts, PCAPP Main Plant and SDCs: Continuation of chemical-agent destruction 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, BGCAPP Main Plant: Continuation of chemical-agent destruction operations, and BGCAPP SDCs; Start of drained rocket warhead disposal operations at SDC 1200; start of over-packed rocket destruction and drained rocket warhead disposal operations at the SDC 2000; and start of rocket motors destruction at Anniston SDC.

Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Chemical Demilitarization Program					Date: May 2021
Appropriation/Budget Activity 0390D: Chem Agents & Munitions Destruction I BA 2: RDT&E		R-1 Program Element (Number/Name) PE 0708083D I ACWA-Assembled Chemical Weapons Alternatives			
B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	869.430	775.699	689.438	-	689.438
Current President's Budget	884.330	935.999	995.011	-	995.011
Total Adjustments	14.900	160.300	305.573	-	305.573
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	160.300			
• Congressional Directed Transfers	-	-			
• Reprogrammings	14.900	-			
• SBIR/STTR Transfer	-	-			
• Realignment	-	-	305.573	-	305.573
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022		
Title: The Assembled Chemical Weapons Alternatives (ACWA) program	884.330	935.999	995.011		
Description: FY2020 Accomplishments					
<p>PEO ACWA – sustained program operations and support activities despite pandemic environment challenges by implementing COVID-19 impact response plans at PCAPP, BGCAPP and the Anniston Army Depot PEO ACWA – achieved 50% destruction of remaining U.S. stockpile on 20 June</p> <p>PCAPP – achieved 50% destruction of PCAPP mustard agent stockpile on 26 February PCAPP – completed baseline reconfiguration of 4.2in mortar rounds on 23 June - removed energetics for Anniston SDC destruction and prepared munitions for destruction in the PCAPP SDCs PCAPP Main Plant - completed 155mm mustard agent-filled projectile destruction on 5 September – 34 days ahead of schedule PCAPP Main Plant - started retooling for 105mm mustard agent-filled projectile destruction PCAPP SDC - completed site construction and assembly on 20 July - started systemization of three SDCs 1200 Anniston SDC - continued munition energetics destruction</p> <p>BGCAPP Main Plant - started revised Rocket Processing System equipment emplacement BGCAPP Main Plant - started chemical-agent operations - started on 17 January and completed on 11 May 8in GB nerve agent-filled projectile destruction BGCAPP Main Plant - started changeover for 155mm VX nerve agent-filled projectile destruction BGCAPP EDT - 155mm mustard agent-filled projectile destruction – achieved 50% destruction of BGCAPP mustard agent stockpile on 1 September</p>					

Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Chemical Demilitarization Program		Date: May 2021		
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		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>BGCAPP SDC - started site construction for SDC 2000</p> <p>FY 2021 Plans: PCAPP Main Plant - complete retooling for 105mm mustard agent-filled projectile destruction - start 105mm mustard agent-filled projectile destruction PCAPP SDC - complete systemization and site acceptance testing for the three SDCs 1200 - start chemical-agent operations - start 4.2in mustard agent-filled mortar destruction Anniston SDC - continue munition energetics destruction</p> <p>BGCAPP Main Plant - complete systemization - complete revised Rocket Processing System equipment factory acceptance testing, emplacement, installation and system testing BGCAPP Main Plant - start and complete 155mm VX nerve agent-filled projectile destruction BGCAPP Main Plant - start and complete mechanical changeover for M55/M56 VX nerve agent-filled rocket destruction BGCAPP Main Plant - start M55/M56 VX nerve agent-filled rocket destruction BGCAPP EDT - complete 155mm mustard agent-filled projectile destruction - start changeover to convert the EDT to an SDC 1200 capable of processing containerized nerve agent-drained rocket warheads BGCAPP SDC 1200 - start and complete site construction, start installation and systemization BGCAPP SDC 2000 - complete site construction - start installation and systemization</p> <p>FY 2022 Plans: PCAPP Main Plant - continue 105mm mustard agent-filled projectile destruction PCAPP SDC - continue 4.2in mustard agent-filled mortar destruction Anniston SDC - continue munition energetics destruction</p> <p>BGCAPP Main Plant - complete M55/M56 VX nerve agent-filled rocket destruction BGCAPP Main Plant - start and complete changeover for M55/M56 GB nerve agent-filled rocket destruction BGCAPP Main Plant - start M55/M56 GB nerve agent-filled rocket destruction BGCAPP SDC 1200 - complete installation and systemization - start containerized M55/M56 VX nerve agent-drained rocket warhead secondary waste disposal BGCAPP SDC 2000 - complete installation and systemization - start and complete M55/M56 GB nerve agent-filled over-packed rocket destruction and start M55/M56 GB nerve agent-drained rocket warhead secondary waste disposal Anniston SDC - start rocket motors destruction</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>				

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Budget Activity 2: Research, Development, Test & Evaluation

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Chemical Demilitarization Program		Date: May 2021		
Appropriation/Budget Activity 0390D: <i>Chem Agents & Munitions Destruction I BA 2: RDT&E</i>		R-1 Program Element (Number/Name) PE 0708083D / <i>ACWA-Assembled Chemical Weapons Alternatives</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
Re-evaluation of program requirements resulting in budget increase				
Accomplishments/Planned Programs Subtotals		884.330	935.999	995.011
D. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
N/A				
E. Acquisition Strategy				
<p>The ACWA Program is overseen by a program executive office, the PEO ACWA, headquartered at Aberdeen Proving Ground, Maryland. The program is primarily executed through systems contracts to design, construct, systemize, 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 off-site shipment of the neutralization by-product at Blue Grass.</p> <p>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 plus award fee (CPAF) type contracts. The PEO ACWA approved the use of supplemental destruction technologies at both sites to expedite destruction and reduce worker safety risks associated with the destruction of some of the chemical weapons munitions.</p>				

Budget Activity 3: Procurement

(In Thousands of Dollars)

FY 2022 Estimate	\$0
FY 2021 Enacted	\$616
FY 2020 Actual	\$2,218

Purpose and Scope

This budget activity provides for the procurement of process and support equipment to support Chemical Stockpile Emergency Preparedness Program (CSEPP) and RCWM Program Support Functions. In addition, it provides for the procurement of assessment, destruction, and neutralization equipment to safely 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

There is no FY 2022 budget request for procurement.

Budget Activity 3: Procurement

Funded Financial Summary (In Thousands of Dollars)			
	FY 2020 Actual	FY 2021 Enacted	FY 2022 Estimate
Chemical Demilitarization Equipment			
Recovered Chemical Warfare Material Program	-	-	-
Subtotal	-	-	-
CSEPP On-Post - Mission	-	-	-
CSEPP Off-Post - Mission	2,218	616	-
Subtotal	2,218	616	-
Total Funded	2,218	616	-

Justification of Funds Required

There is no FY 2022 budget request for procurement.

Budget Activity 3: Procurement

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Chemical Demilitarization Program										Date: May 2021		
Appropriation / Budget Activity / Budget Sub Activity:						P-1 Line Item Number / Title:						
0390D: Chem Agents & Munitions Destruction / BA 03: Procurement / BSA 1: Procurement						0708081D / Chemical Demilitarization Equipment						
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A				Other Related Program Elements: N/A					
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,516.058	2.218	0.616	-	-	-	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,516.058	2.218	0.616	-	-	-	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,516.058	2.218	0.616	-	-	-	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Budget Activity 3: Procurement

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Exhibits Schedule							Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	
P-40a***	001 / RCWM-P				- / 73.168	- / -	- / -	- / -	- / -	- / -	- / -	
P-40a***	002 / CSEPP				- / 551.582	- / 2.218	- / 0.616	- / -	- / -	- / -		
P-40a***	003 / DIRECTOR, CMA SUPPORT ACTIVITIES				- / 1.727	- / -	- / -	- / -	- / -	- / -		
P-40a***	001 / TOOLE CHEMICAL AGENT DISPOSAL FACILITY				- / 401.007	- / -	- / -	- / -	- / -	- / -		
P-40a***	002 / UMATILLA CHEMICAL AGENT DISPOSAL FACILITY				- / 410.047	- / -	- / -	- / -	- / -	- / -		
P-40a***	003 / JOHNSTON ATOLL CHEMICAL AGENT DISPOSAL FACILITY				- / 66.928	- / -	- / -	- / -	- / -	- / -		
P-40a***	004 / CHEMICAL AGENT MUNITIONS DISPOSAL SYSTEM				- / 27.630	- / -	- / -	- / -	- / -	- / -		
P-40a***	006 / CHEMICAL DEMILITARIZATION TRAINING FACILITY				- / 24.886	- / -	- / -	- / -	- / -	- / -		
P-40a***	006 / ANNISTON CHEMICAL AGENT DISPOSAL FACILITY				- / 380.884	- / -	- / -	- / -	- / -	- / -		
P-40a***	007 / PINE BLUFF CHEMICAL AGENT DISPOSAL FACILITY				- / 328.806	- / -	- / -	- / -	- / -	- / -		
P-40a***	008 / PM-CSE SUPPORT ACTIVITIES				- / 226.762	- / -	- / -	- / -	- / -	- / -		
P-40a***	009 / EARLY CHEMICAL STOCKPILE DISPOSAL PROGRAM				- / 33.632	- / -	- / -	- / -	- / -	- / -		
P-40	Total Gross/Weapon System Cost				- / 2,516.058	- / 2.218	- / 0.616	- / 0.000	- / -	- / 0.000		

Exhibits Schedule					FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	001 / RCWM-P				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	002 / CSEPP				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	003 / DIRECTOR, CMA SUPPORT ACTIVITIES				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	001 / TOOLE CHEMICAL AGENT DISPOSAL FACILITY				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	002 / UMATILLA CHEMICAL AGENT DISPOSAL FACILITY				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	003 / JOHNSTON ATOLL CHEMICAL AGENT DISPOSAL FACILITY				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	004 / CHEMICAL AGENT MUNITIONS DISPOSAL SYSTEM				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	006 / CHEMICAL DEMILITARIZATION TRAINING FACILITY				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	006 / ANNISTON CHEMICAL AGENT DISPOSAL FACILITY				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	007 / PINE BLUFF CHEMICAL AGENT DISPOSAL FACILITY				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	008 / PM-CSE SUPPORT ACTIVITIES				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	009 / EARLY CHEMICAL STOCKPILE DISPOSAL PROGRAM				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / -	- / -	- / -

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

LI 0708081D - Chemical Demilitarization Equipment
Chemical Demilitarization Program

UNCLASSIFIED