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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	64.228	80.495	84.098	0.000	84.098	89.424	86.503	79.710	71.202	Continuing	Continuing
UN7: <i>Understand (Op Sys Dev)</i>	-	39.602	50.603	59.296	0.000	59.296	71.995	70.339	64.131	59.948	Continuing	Continuing
PT7: <i>Protect (Op Sys Dev)</i>	-	19.649	26.818	22.815	0.000	22.815	15.610	14.319	13.717	10.220	Continuing	Continuing
MT7: <i>Mitigate (Op Sys Dev)</i>	-	4.977	3.074	1.987	0.000	1.987	1.819	1.845	1.862	1.034	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element (PE) resources Operational System Development across the Understand, Protect, and Mitigate portfolios. Chemical Biological Defense Program (CBDP) investments provide an integrated, layered capability to enable Countering Weapons of Mass Destruction (CWMD) missions ranging from combat operations to Department of Defense (DoD) support to domestic incident prevention and response. The Projects in this PE support the upgrade of systems that have been fielded or have received approval for full-rate production in order to maintain Joint Force readiness.

Individual Projects include:

- Understand (UN7): Technology refresh, modernization and continuous engineering of software applications and information systems to shape and inform the battlespace against CBRN threats. Continued development and testing of CB sensor equipment to maintain system interoperability with emerging information technology and decrease size, weight, and power requirements to reduce the logistical burden of associated capabilities. Technology refresh of fielded medical diagnostic systems and associated capabilities (e.g., assays) that contribute to the layered medical defenses against biological warfare agents and upgrade of fielded medical nerve agent treatment system that contribute to the layered medical defenses against chemical warfare agent threats facing U.S. Forces in the field.
- Protect (PT7): Efforts to refresh technology of fielded individual and protective equipment that enables the Joint Force to operate in a contaminated chemical, biological, and radiological (CBR) environment with little or no degradation of performance. Technology refresh efforts for fielded collective protection systems that are smaller, lighter, less costly to produce and maintain, and more logistically supportable, enabling mission accomplishment in spaces safe from the effects of CBR contamination.
- Mitigate (MT7): Technology refresh of fielded Contamination Mitigation (ConMit) systems that will remove and/or detoxify contaminated material without damaging combat equipment, personnel, or the environment.

The projects in this PE support operational systems development necessary to maintain operational effectiveness and are, therefore, correctly placed in Budget Activity 7.

UNCLASSIFIED

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	65.588	80.495	83.683	-	83.683
Current President's Budget	64.228	80.495	84.098	-	84.098
Total Adjustments	-1.360	0.000	0.415	-	0.415
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.359	-			
• Other Adjustments	-0.001	-	0.415	-	0.415

Change Summary Explanation

Funding: FY 2023 (-\$1.359 Million): Transfer of funding to support Small Business Innovative Research/Small Business Technology Transfer efforts.

FY 2025 (+\$0.415 Million): The overall increase of (\$0.415 Million) includes an increase for Chemical Biological Radiological Nuclear Support to Command and Control (+\$2.918 Million), and an Operational Systems Development adjustment to support DoD high priority efforts (-\$2.503 Million).

Schedule: N/A

Technical: N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program										Date: March 2024		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>					Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>		
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
UN7: <i>Understand (Op Sys Dev)</i>	-	39.602	50.603	59.296	0.000	59.296	71.995	70.339	64.131	59.948	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Understand Operational System Development Project provides the Joint Force continued readiness of fielded sensor, information technology and medical diagnostic capabilities and provides size, weight and power improvements to reduce logistical burden on the warfighter and services.

Efforts included in this Project are:

- (1) Modernization CBRN Information Systems (MOD CBRN IS),
- (2) Chemical Biological Radiological Nuclear Support to Command and Control (CSC2),
- (3) Enhanced Maritime Biological Detection (EMBD),
- (4) Modernization Sensors (MOD SEN),
- (5) Modernization Medical (MOD MED),
- (6) Special Purpose Unit Rapid Capability Development and Deployment (SPU RCDD), and
- (7) Weapons of Mass Destruction - Civil Support Team (WMD CST)

MOD CBRN IS combines CBRN IS (Cloud), Joint Effects Model (JEM), the Joint Warning and Reporting Network (JWARN), and the Software Support Activity within one portfolio. MOD CBRN IS provides for the continuous engineering and sustainment efforts to modernize capabilities and conduct Post Deployment Software Support (PDSS) to fielded CBRN software programs. Activities include: software code updates and modernization to correct deficiencies; compliance with system architectural changes to ensure interoperability; cybersecurity updates ensuring compliance with policies and standards; test and evaluation to identify possible cybersecurity vulnerabilities; configuration management; software redistribution, documentation, and training. In FY24, MOD CBRN IS funding will be consolidated under CBRN Support to Command and Control (CSC2).

Consolidation of continuous engineering for the currently deployed CBRN information systems (Joint Effects Model (JEM)/Joint Warning and Reporting Network (JWARN), CBRN Information System (CBRN IS)). Effort encompasses the processes, procedures, people, material and information required to support and modernize fielded CBRN information systems and applications. Fielded capabilities and efforts will be transitioned to the CSC2 Capability set in the FY27-29 timeframe, maintaining the stopgap capability for CBRN warning, reporting, and effects modeling while setting conditions for the sun setting of the enduring capabilities. The approach to consolidation simplifies software BA7 management under one line and synchronizes the sunset of JEM and JWARN systems as replacement capabilities are deployed through CSC2.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program	Date: March 2024
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The Enhanced Maritime Biological Detection (EMBD) program will undertake engineering efforts to combat Diminishing Manufacturing Sources and Material Shortages (DMSMS) and maintain a stable production line. The EMBD program will address major obsolescence problems identified by the prime contractor that could affect a stable production line and to ensure new EMBD hardware/software remains procurable, field upgradeable and backwards compatible with previously fielded units. In FY25, EMBD continues efforts under the MOD SEN BA7 program line; undertaking engineering efforts to resolve obsolescence of Light Emitting Diodes (LEDs) within the Rapid Agent Aerosol Detector (RAAD), multiple circuit card electrical components and Developmental Testing (DT) of all new components.

The Modernization Sensors (MOD SEN) program conducts technology refresh, modernization and continuous engineering of software applications and information systems to shape and inform the battlespace against CBRN threats for the Analytical Laboratory System Modification (ALS MOD), Common Analytical Laboratory System (CALs) Field Confirmatory Analytical Capability Set (FC ACS), CALs Theater Validation Integrated System (TV IS), Chemical Biological Radiological Nuclear Dismounted Reconnaissance System (CBRN DRS), M8 Chemical Detection Paper, and Enhanced Maritime Biological Detection (EMBD) programs. Continued development and testing of CB sensor equipment is planned to address obsolescence of critical equipment and functionality issues for the Services in order to maintain system interoperability with emerging information technology and decrease size, weight and power requirements to reduce logistical burden of associated capabilities. In FY25, MOD SEN supports the evaluation of components for technical refreshment of the CBRN DRS, CALs, ALS MOD, M8 paper, and EMBD.

The Modernization Medicine (MOD MED) program supports improvements to fielded systems and supports post-fielding U.S. Food & Drug Administration (FDA) requirements for CBRN Medical devices, including FDA-approved autoinjectors and diagnostic equipment, in order to mitigate obsolescence and maintain fielded capabilities. In FY25 MOD MED will continue annual cyber security updates and management of hardware and software configurations for diagnostic systems; continue development of a Next Generation Diagnostic System Increment 1 (NGDS 1) replacement system to maintain the current Biological Warfare diagnostics capability, and; support Department of Defense (DoD) sponsored regulatory activities for legacy autoinjectors and continue FDA Post-Marketing Commitments.

Special Purpose Unit Rapid Capability Development and Deployment (SPU RCDD) facilitates United States Special Operations Command (USSOCOM) rapid response requirements, through the classified special category (SPECAT) process, for near-term and emergent chemical-biological defensive capabilities. SPU RCDD mitigates risk across the Enterprise by creating a portfolio of operationally relevant CBRND capabilities that can be quickly transitioned in response to the articulated, developing capability needs of the geographic combatant commanders. These objectives are met by the early transitioning of promising S&T; the focused conduct of combat evaluations and mission-oriented operational assessments to assess technological and mission suitability; and leveraging existing Commercial-Off-The-Shelf (COTS) and Government-Off-The-Shelf (GOTS) products along with novel redesign approaches to optimize existing solutions to new challenges supported by adaptive acquisition strategies.

Weapons of Mass Destruction Civil Support Team (WMD CST) supports the fielded system upgrade and ongoing assessment and acquisition of Commercial Off The Shelf (COTS) and Government Off The Shelf (GOTS) analytical detection, protection, decontamination and sampling equipment for survey in order to expand/enhance the operational capabilities of the WMD CST. Program efforts support upgrades of key components of the WMD CST Program that have become obsolete or are no longer being supported by the manufacturer. In FY25, the WMD CST program continues system-related test activities, including costs of specially fabricated hardware to obtain or validate engineering data on the performance of the system.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Title: 1) MOD CBRN IS</p> <p>Description: CBRN Information Systems Modernization</p>	18.112	-	-
<p>Title: 2) CSC2</p> <p>Description: Continuous engineering, and post-production software support of CSC2 and CBRN Information Systems (CBRN IS)</p> <p>FY 2024 Plans: Continue engineering, integration, and delivery of the CSC2 capability set in support of the Minimum Viable Capability Release (MVCR). Continue post-production software support of the Legacy CBRN information systems, until the CSC2 is available to deploy. This continued development will include updates to host architectures, operating systems, cyber security requirements and North Atlantic Treaty Organization (NATO) standards. Supports continuous software developmental and operational testing on software updates and modernization efforts. Provide program/financial management, costing, contracting, scheduling and acquisition oversight and product support for software redeployment and training to operational forces.</p> <p>FY 2025 Plans: Continue engineering, integration, and delivery of the CSC2 capability set in support of the Minimum Viable Capability Release (MVCR) and follow-on capability releases (CRs). Continue post-production software support of the Legacy CBRN Information Systems, until the CSC2 is available to be delivered. This continued development will include updates to host architectures, operating systems, cybersecurity requirements and North Atlantic Treaty Organization (NATO) standards. Supports continuous software developmental and operational testing on software updates and modernization efforts. Including the infrastructure for Continuous Integration/Continuous Delivery (CI/CD) development and processes to automatically build, test, and deploy new software capabilities. Provide program/financial management, costing, contracting, scheduling and acquisition oversight and product support for software redeployment and training to operational forces.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to incorporation of the Continuous Integration/Continuous Delivery (CI/CD) efforts to accelerate software development.</p>	-	20.485	25.941
<p>Title: 3) EMBD</p> <p>Description: Product Development, Test and Evaluation, and Management</p>	1.976	-	-
<p>Title: 4) MOD SEN</p> <p>Description: Sensors Modernization</p>	8.386	11.666	11.500

UNCLASSIFIED

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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> Complete evaluation of prototyping efforts associated with the CBRN Dismounted Reconnaissance Systems (DRS) Systems Modernization Program (SMP), and the continued technical refreshment of CBRN DRS, Common Analytical Laboratory System (CALs), Analytical Laboratory System (ALS) Modification (MOD), M8, and Enhanced Maritime Biological Detection (EMBD). Plans include laboratory information systems and gas chromatography mass spectrometer refreshments for CALs, suit refreshment and communications updates for DRS, modernizing the M8 to refresh the technology originally manufactured in the 1960s, and software refreshments and electronics components obsolescence for EMBD.</p> <p><i>FY 2025 Plans:</i> Continue technical refreshment of CBRN DRS, Common Analytical Laboratory System (CALs), Analytical Laboratory System (ALS) Modification (MOD), M8 Chemical Detection Paper, and Enhanced Maritime Biological Detection (EMBD). Plans include addressing capability gap resulting from obsolescence of the current Gas Chromatograph Mass Spectrometer (GC MS) system within the CALs program with an analytical system that will work within existing space and interoperability constraints that will detect and identify various volatile organic compounds (VOCs) and semi volatile organic compounds (SVOCs), obsolescence management of support equipment and conducting a verification and validation of a non-intrusive assessment technology insertion for the Chemical Biological Radiological Nuclear Dismounted Reconnaissance System (CBRN DRS), continue modernization of the M8 and start surety testing and user touch points to support changes to M8, and software refreshments and electronics components obsolescence for EMBD.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Decrease due to reduction in system modernization activities.</p>			
<p><i>Title:</i> 5) MOD MED - Diagnostic System Upgrades / Assay Development</p> <p><i>Description:</i> Maintain system hardware and software configurations for fielded diagnostics and develop additional assays.</p> <p><i>FY 2024 Plans:</i> Continue annual cyber security updates and management of hardware and software configurations, and develop additional assays for NGDS 1.</p> <p><i>FY 2025 Plans:</i> Continue annual cyber security updates, management of hardware and software configurations, and develop additional assays for emerging threats.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></p>	3.881	3.024	3.523

UNCLASSIFIED

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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Increase from FY24 to FY25 includes the Next Generation Diagnostic System Increment 2 (NGDS 2) ChemDx system, which transitions to Production/Deployment in FY25.			
<p>Title: 6) MOD MED - Autoinjector Post Marketing Commitments and Requirements (PMRs/PMCs)</p> <p>Description: Food and Drug Administration (FDA) required Post-Marketing Commitments and Requirements for combination products.</p> <p>FY 2024 Plans: Support Army, Office of the Surgeon General (OTSG) - Sponsored regulatory activities for legacy autoinjectors. Initiate FDA Post-Marketing Commitments.</p> <p>FY 2025 Plans: Continue support for Army Office of the Surgeon General (OTSG) - Sponsored regulatory activities for legacy autoinjectors. Initiate FDA Post-Marketing Commitments for the Dual Drug Delivery Device (D4). Continue conducting design improvements needed for Antidote Treatment Nerve Agent Autoinjector (ATNAA) to meet FDA's reliability requirements.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Program costs increased in FY25 due to increased costs from OTSG for sponsored regulatory activities for legacy autoinjectors, and adding activities related to reliability improvements for ATNAA.</p>	0.294	1.906	2.649
<p>Title: 7) MOD MED - NGDS 1 Tech Refresh</p> <p>Description: NGDS 1 technology refresh</p> <p>FY 2024 Plans: Initiate developmental activities for system to maintain the Biological Warfare diagnostics capability currently provided by NGDS 1.</p> <p>FY 2025 Plans: Continue developmental activities for a system to maintain the Biological Warfare diagnostics capability currently provided by Next Generation Diagnostic System Increment 1 (NGDS 1).</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to going from partial-year effort (3QFY24 prototype award) to full-year effort.</p>	1.588	8.043	12.086
<p>Title: 8) SPU RCDD - System Modernization</p> <p>Description: Product development, test and evaluation, and management services to modernize technology across multiple commodity areas.</p>	1.934	1.835	1.848

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>FY 2024 Plans: Continue product enhancement, development, and technology upgrades on currently fielded equipment to counter emerging threats, conduct limited user evaluations and operational assessments, and provide program management support. Continue the MSCBA and EWAT product enhancement, development, and technology upgrades, conduct limited user evaluation, and operational assessments, and provide program management support.</p> <p>FY 2025 Plans: Continued maturing CBRND technologies within Understand, Protect, Mitigate, and Enabling commodity areas. The bulk of SPU RCDD funds will align with Enable and Protect.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Minor increase due to economic cost adjustments within Project Understand Budget Activity 7 (UN7).</p>			
<p>Title: 9) WMD CST</p> <p>Description: System Upgrade and Support</p> <p>FY 2024 Plans: FY24 funding address capability gaps and obsolescence issues that were identified by the commercial of the shelf (COTS) modification (MOD) process in collaboration with the National Guard Bureau.</p> <p>FY 2025 Plans: FY25 funding continues to address capability gaps and obsolescence issues identified by the commercial of the shelf (COTS) modification (MOD) process in collaboration with the National Guard Bureau.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to current requirements and scheduled NGB CST test and validation events to include: UAS Phase III testing, wireless sensor integration, and next generation re-breather performance validation.</p>	3.431	3.644	1.749
Accomplishments/Planned Programs Subtotals	39.602	50.603	59.296

C. Other Program Funding Summary (\$ in Millions)			FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
Line Item	FY 2023	FY 2024	Base	OCO	Total					Complete	Total Cost
• UN5: <i>Understand (SDD)</i>	128.837	182.726	154.658	-	154.658	124.463	90.423	63.185	55.658	Continuing	Continuing
• JS0005: <i>Common Analytical Laboratory System (CALS)</i>	30.530	7.167	21.323	-	21.323	22.132	3.057	-	-	Continuing	Continuing

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• JS5230: <i>Modernization Chemical Biological Radiological Nuclear Information Systems (MOD CBRN IS)</i>	0.656	-	-	-	-	-	-	-	-	0.000	21.455
• MC0101: <i>Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)</i>	47.324	60.492	74.140	-	74.140	28.378	23.132	-	-	Continuing	Continuing
• PHM018: <i>Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)</i>	10.188	49.455	30.799	-	30.799	34.180	33.716	26.638	32.609	Continuing	Continuing

Remarks

D. Acquisition Strategy

Chemical Biological Radiological Nuclear Support to Command and Control (CSC2)

The acquisition strategy utilizes a managed portfolio approach to align multiple capabilities in support of continuous engineering and modernization of CBRN Information Systems. This encompasses the continuous engineering to maintain, modernize, and conduct post-production and deployment support to fielded CBRN software information systems and capabilities. CSC2 will leverage and modernize the existing capabilities formally under the MOD CBRN IS effort to reduce cost and technical risk through the existing infrastructure and software platforms for integration and delivery of the modular capability set. As well as initiate the sun setting of the fielded capabilities associated with MOD CBRN IS.

Modernization Sensors (MOD SEN)

MOD SEN program uses a Commercial Off-The-Shelf (COTS)/Government Off-The-Shelf (GOTS) approach to manage modernization for multiple Chemical Biological Radiological Nuclear (CBRN) sensor programs. This strategy employs a Non-developmental Item acquisition concept to translate mission needs and emerging technology capabilities into a fieldable component to solve obsolescence and technology update needs. Current planned funding supports Analytical Laboratory System Modification (ALS MOD), Common Analytical Laboratory System (CALs) Field Confirmatory Analytical Capability Set (FC ACS), CALs Theater Validation Integrated System (TV IS), CBRN Dismounted Reconnaissance System (CBRN DRS), M8 Chemical Detection Paper Modification, and Enhanced Maritime Biological Detection (EMBD) modernization activities. The program maintains baseline capabilities with obsolescence management, technology insertions, and enhancements based on

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

changes in requirements. This program modernizes the Joint Force to combat advancing threats and current capability gaps in analytical laboratory and sensitive site assessment and exploitation capabilities require a system modernization strategy for each system.

Modernization Medical (MOD MED)

MOD MED leverages an existing Indefinite Delivery/Indefinite Quantity (IDIQ) Delivery Order contract with the Next Generation Diagnostic System Increment 1 (NGDS 1) original equipment manufacturer for both hardware and software updates, including cybersecurity, as well as for development of additional assays (i.e. tests) to address emerging biological threats and diseases.

MOD MED will mitigate obsolescence of the NGDS 1, by awarding contracts and/or Other Transaction Authority (OTA) agreements to develop, test and evaluate a replacement for the current commercial system, and maintain the existing Biological Warfare diagnostic capability.

MOD MED for AUTOINJ will ensure post-marketing commitments and requirements resulting from U.S. Food & Drug Administration (FDA) approval are fulfilled and will be the responsibility of both the performer and the government. AUTOINJ uses contracts and Other Transaction Authority (OTA) agreements in which the performer shall be responsible for conducting activities to meet post-approval FDA requirements.

Special Purpose Unit Rapid Capability Development and Deployment (SPU RCDD)

The SPU RCDD overall acquisition strategy allows for rapid prototyping and testing of novel and modified COTS and or GOTS systems against mission critical capabilities to enhance mission success. SPU RCDD will use developmental testing and USSOCOM combat and functional evaluations to rapidly develop items that close SPECAT capability gaps. This will be accomplished through competitive contracting vehicles such as Multiple Award Indefinite Delivery Indefinite Quantify Task Orders, the Countering Weapons of Mass Destruction Other Transaction Authority (CWMD OTA), and Commercial Solutions Opening (CSO). SPU RCDD will use Government Agencies for test and evaluation, and technical support.

Weapons of Mass Destruction - Civil Support Teams (WMD CST)

The Weapons of Mass Destruction Civil Support Team Program (WMD-CST) is a COTS based program that supports the evaluation of advancements in CBRN commercial off the shelf (COTS)/government-off-the-shelf (GOTS) equipment against the current technology baseline of equipment fielded to the (57) WMD CST Teams, this is to address analytical equipment obsolescence.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)	Project (Number/Name) UN7 / Understand (Op Sys Dev)
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MOD CBRN IS - SW S - Modernization	Various	Various : N/A	-	12.619	Apr 2023	0.000		0.000		-		0.000	0.000	12.619	0.000
CSC2 - SW S - Continuous Engineering	Various	Various : N/A	-	0.000		11.681	Dec 2023	10.868	Mar 2025	-		10.868	Continuing	Continuing	0.000
CSC2 - SW S - Modernization CBRN Warning & Reporting	C/CPIF	Various : N/A	-	0.000		2.137	Jan 2024	0.000		-		0.000	0.000	2.137	0.000
EMBD - HW GFPP - Obsolescence Support in Production	SS/CPIF	Chemring Detection Systems, Inc. : Charlotte, NC	-	0.526	Dec 2022	0.000		0.000		-		0.000	0.000	0.526	0.000
EMBD - HW SB - Obsolescence Support in Production	SS/CPIF	Chemring Detection Systems, Inc. : Charlotte, NC	-	0.915	Sep 2023	0.000		0.000		-		0.000	0.000	0.915	0.000
MOD SEN - HW C - Government Team Labor	MIPR	U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) : Aberdeen Proving Ground, MD	-	1.740	Nov 2022	0.992	Nov 2023	1.769	Dec 2024	-		1.769	Continuing	Continuing	0.000
MOD SEN - HW C - System Modernization	Various	Various : N/A	-	2.439	Nov 2022	4.953	Nov 2023	2.969	Dec 2024	-		2.969	Continuing	Continuing	0.000
MOD SEN - HW SB - Sub-System/Support Equipment Development	Various	Various : N/A	-	2.121	Mar 2023	0.000		2.586	Dec 2024	-		2.586	Continuing	Continuing	0.000
MOD MED - HW C - Product Management	Various	Various : N/A	-	2.177	Nov 2022	3.520	Dec 2023	3.898	Dec 2024	-		3.898	Continuing	Continuing	0.000
MOD MED - HW C - Autoinjector Office of Regulatory Affairs	MIPR	U.S. Army Medical Research and Development Command	-	0.244	Nov 2022	0.794	Nov 2023	0.248	Dec 2024	-		0.248	Continuing	Continuing	0.000

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)	Project (Number/Name) UN7 / Understand (Op Sys Dev)
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		(USAMRDC) : Fort Detrick, MD													
MOD MED - HW C - Autoinjector Post Marketing Requirements/Committments	C/CPFF	Emergent Biosolutions : Gaithersburg, MD	-	0.000		0.000		0.624	Dec 2024	-		0.624	Continuing	Continuing	0.000
MOD MED - HW C - Next Generation Diagnostic System 1 (NGDS 1)	C/CPFF	BioFire Dx : Salt Lake City, UT	-	3.001	Nov 2022	2.160	Dec 2023	1.260	Dec 2024	-		1.260	Continuing	Continuing	0.000
MOD MED - HW S - Tech Refresh	Various	TBD : N/A	-	0.000		4.792	Mar 2024	8.837	Dec 2024	-		8.837	Continuing	Continuing	0.000
MOD MED - HW SB - Assay Development	TBD	TBD : N/A	-	0.000		0.000		0.352	Dec 2024	-		0.352	Continuing	Continuing	0.000
MOD MED - HW C - Alternative Autoinjector Manufacturer Capability (AUTOINJ)	C/CPFF	TBD : N/A	-	0.000		0.000		1.087	Dec 2024	-		1.087	Continuing	Continuing	0.000
SPU RCDD - HW C - Prototype development	Various	Various : N/A	-	1.724	Dec 2022	1.613	Dec 2023	1.630	Dec 2024	-		1.630	Continuing	Continuing	0.000
WMD CST - HW S - Product Development Team Labor	Various	Various : N/A	-	0.000		0.853	Nov 2023	0.640	Nov 2024	-		0.640	Continuing	Continuing	0.000
Subtotal			-	27.506		33.495		36.768		-		36.768	Continuing	Continuing	N/A

Remarks
MOD MED: Tech Refresh will be an OTA.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)	Project (Number/Name) UN7 / Understand (Op Sys Dev)
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Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MOD CBRN IS - ES S - milCloud	MIPR	Various : N/A	-	2.093	Sep 2023	0.000		0.000		-		0.000	0.000	2.093	0.000
CSC2 - ES C - Product Support	MIPR	Various : N/A	-	0.000		3.763	Jan 2024	10.764	Nov 2024	-		10.764	Continuing	Continuing	0.000
MOD SEN - ES C - Science and Engineering Support	MIPR	U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) : Aberdeen Proving Ground, MD	-	0.192	Nov 2022	0.000		0.000		-		0.000	0.000	0.192	0.000
MOD SEN - ES C - Obsolescent Management	Various	Various : N/A	-	0.271	Feb 2023	3.408	Nov 2023	1.500	Dec 2024	-		1.500	Continuing	Continuing	0.000
WMD CST - ES C - Science & Engineering Support	MIPR	Naval Air Warfare Center (Aircraft Division) : Patuxent River, MD	-	0.120	Jan 2023	0.190	Nov 2023	0.190	Nov 2024	-		0.190	Continuing	Continuing	0.000
WMD CST - ES C - Government Product Development Team Labor	MIPR	U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) : Aberdeen Proving Ground, MD	-	0.384	Feb 2023	0.190	Nov 2023	0.000	Nov 2024	-		0.000	0.000	0.574	0.000
Subtotal			-	3.060		7.551		12.454		-		12.454	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)	Project (Number/Name) UN7 / Understand (Op Sys Dev)
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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MOD CBRN IS - OTH S - System Testing	MIPR	Various : N/A	-	1.500	Sep 2023	0.000		0.000		-		0.000	0.000	1.500	0.000
CSC2 - DTE S - System update T&E	TBD	U.S. Navy Space and Naval Warfare (SPAWAR) Systems Center : San Diego, CA	-	0.000		0.952	Oct 2023	0.962	Nov 2024	-		0.962	Continuing	Continuing	0.000
EMBD - DTE C - Obsolescence Support in Production testing and verification	MIPR	U.S. Naval Surface Warfare Center (NSWC) : Dahlgren, VA	-	0.475	Feb 2023	0.000		0.000		-		0.000	0.000	0.475	0.000
MOD SEN - DTE C - Component Test and Evaluation	MIPR	U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) : Aberdeen Proving Ground, MD	-	0.745	Apr 2023	0.750	Nov 2023	1.135	Dec 2024	-		1.135	Continuing	Continuing	0.000
WMD CST - OTH C - CBRN COTS Component	MIPR	U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) : Aberdeen Proving Ground, MD	-	1.120	Feb 2023	1.680	Nov 2023	0.744	Nov 2024	-		0.744	Continuing	Continuing	0.000
WMD CST - OTH C - CBRN COTS Component	MIPR	Naval Air Warfare Center (Aircraft Division) : Patuxent River, MD	-	1.504	Jan 2023	0.367	Nov 2023	0.000	Nov 2024	-		0.000	0.000	1.871	0.000
Subtotal			-	5.344		3.749		2.841		-		2.841	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)	Project (Number/Name) UN7 / Understand (Op Sys Dev)
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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MOD CBRN IS - PM/MS S - Program Management Support	Various	Various : N/A	-	1.900	Jun 2023	0.000		0.000		-		0.000	0.000	1.900	0.000
CSC2 - PM/MS S - Program Management Office Support	Various	Various : N/A	-	0.000		1.952	Oct 2023	3.347	Oct 2024	-		3.347	Continuing	Continuing	0.000
EMBD - PM/MS S - Program Management Support	MIPR	Various : N/A	-	0.060	Mar 2023	0.000		0.000		-		0.000	0.000	0.060	0.000
MOD SEN - PM/MS C - Program Management Support	Various	Various : N/A	-	0.878	Jan 2023	1.563	Nov 2023	1.541	Dec 2024	-		1.541	Continuing	Continuing	0.000
MOD MED - PM/MS C - Management Services	Various	Various : N/A	-	0.341	Nov 2022	1.707	Dec 2023	1.952	Dec 2024	-		1.952	Continuing	Continuing	0.000
SPU RCDD - PM/MS C - Program Management Support	Various	Various : N/A	-	0.210	Dec 2022	0.222	Dec 2023	0.218	Dec 2024	-		0.218	Continuing	Continuing	0.000
WMD CST - PM/MS S - Program Management Support	MIPR	Various : N/A	-	0.303	Dec 2022	0.364	Nov 2023	0.175	Nov 2024	-		0.175	Continuing	Continuing	0.000
Subtotal			-	3.692		5.808		7.233		-		7.233	Continuing	Continuing	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	39.602	50.603	59.296	-	59.296	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>
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	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
MOD SEN - DT/OT for refreshed components and obsolescence management within MOD SEN																												
MOD MED - Diagnostic System Upgrades / Assay Development																												
MOD MED - NGDS 1 Tech Refresh																												
MOD MED - ATNAA Redesign for Reliability																												
MOD MED - Autoinjector (D4) Post Marketing Commitments and Requirements (PMRs/ PMCs)																												
MOD MED - Autoinjector (RAD-A) Post Marketing Commitments and Requirements (PMRs/PMCs)																												
SPU RCDD - Enhanced Warfighter Augmented Training (EWAT)																												
SPU RCDD - Individual CWMD Uniform Pack (ICUP)																												
WMD CST - Upgrade Fielded Systems																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MOD CBRN IS - Validation, Verification and Accreditation	1	2023	4	2023
MOD CBRN IS - Modernization	1	2023	4	2023
MOD CBRN IS - Configuration Management and Test and Evaluation	1	2023	4	2023
MOD CBRN IS - Cyber Security Compliance	1	2023	4	2023
MOD CBRN IS - Continuous Engineering/SW Codes Updates	1	2023	4	2023
MOD CBRN IS - Operating system architecture updates	1	2023	4	2023
CSC2 - SWP Execution Phase Decision Approval	3	2023	3	2023
CSC2 - MVP	1	2024	1	2024
CSC2 - Capability Drop - MVCR/ Capability Release 1	3	2024	3	2024
CSC2 - Capability Drop - Continuous Capability Releases (every 3 months)	4	2024	4	2028
CSC2 - Continuous Engineering & Software Updates	1	2025	4	2028
CSC2 - Continuous Software DT/OT	2	2024	4	2028
CSC2 - Cyber Security Compliance	2	2024	4	2028
CSC2 - Service Computing Environment Integration	2	2024	4	2028
EMBD - FRP Production	1	2023	3	2027
EMBD - Initial Operational Capability	2	2023	2	2023
EMBD - Full Operational Capability	2	2029	2	2029
MOD SEN - DT/OT for refreshed components and obsolescence management within MOD SEN	1	2023	4	2029
MOD MED - Diagnostic System Upgrades / Assay Development	1	2023	4	2029
MOD MED - NGDS 1 Tech Refresh	1	2024	4	2029
MOD MED - ATNAA Redesign for Reliability	2	2024	2	2027

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) UN7 / <i>Understand (Op Sys Dev)</i>

Events	Start		End	
	Quarter	Year	Quarter	Year
MOD MED - Autoinjector (D4) Post Marketing Commitments and Requirements (PMRs/PMCs)	1	2028	4	2029
MOD MED - Autoinjector (RAD-A) Post Marketing Commitments and Requirements (PMRs/PMCs)	4	2028	4	2029
SPU RCDD - Enhanced Warfighter Augmented Training (EWAT)	1	2023	4	2025
SPU RCDD - Individual CWMD Uniform Pack (ICUP)	1	2023	4	2024
WMD CST - Upgrade Fielded Systems	1	2023	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) PT7 / <i>Protect (Op Sys Dev)</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
PT7: <i>Protect (Op Sys Dev)</i>	-	19.649	26.818	22.815	0.000	22.815	15.610	14.319	13.717	10.220	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Protect Operational System Development Project provides the Joint Force the continued readiness of fielded collective and individual protective capabilities and provides size, weight and power improvements to reduce logistical burden on the warfighter and services.

Efforts included in this Project are:

- (1) Modernization Protection Collective Protection (MODPROT CP), and
- (2) Modernization Protection Individual Protection (MODPROT IP)

The Modernization Protection Collective Protection (MODPROT CP) effort addresses modernization and obsolescence across the DoD CP portfolio to increase readiness, sustainability, reliability, and affordability of these systems. MODPROT CP modernizes decades old collective protection equipment reducing costs, shortening lead times, and updating key components to extend service life and ensure affordable and procurable to warfighters. MODPROT CP will conduct system filter surveillance testing to improve system sustainment, develop a design guide for ground vehicle platforms, modernize mobile platform filters, modernize liners and closures for collective protection shelters, and explore new filter media technology transitions.

The Modernization Protection Individual Protection (MODPROT IP) project addresses obsolescence issues with IP equipment and the need to modernize fielded IP with capabilities to meet or exceed the Services requirements. MODPROT IP will conduct modernization efforts and reverse engineering of maintenance and repair procedures for the Joint Services Mask Leakage Tester (JSMLT), upgrade fielded protection systems to enhance respiratory and ocular protection of aircrew systems, modernize fielded filters, and explore updates to fielded personal protective equipment (PPE).

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: 1) MODPROT CP	10.026	13.468	9.035
Description: Upgrades, improvements, and modernizations to fielded collective protection (CP) systems			
FY 2024 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) PT7 / <i>Protect (Op Sys Dev)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Continue M48A1 Filter Redesign. Continue Collective Protection (CP) Modernization for Ships and Buildings and begin shipboard system installation. Continue Mobile Platform Filter Modernization to reduce logistics costs. Continue conducting CP system filter surveillance testing to improve system sustainment.</p> <p>FY 2025 Plans: Complete M48A1 Filter Redesign. Continue CP Modernization for Ships and Buildings including installing a prototype system on a ship. Continue conducting CP system filter surveillance testing to improve system sustainment. Continue Mobile Platform Filter Modernization at a decreased effort. Continue Liners Closures and Barriers as well as new filter media transitions.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in FY25 due to less testing needed in Mobile Platform Filter Modernization. Also the M93/M59 Gas Particulate Filter Unit (GPFU), M14 Protective Entrance (PE), and Contaminated Filter Changeout projects will complete in FY24.</p>			
<p>Title: 2) MODPROT IP</p> <p>Description: Upgrades, improvements, and modernizations to fielded individual protection (IP) systems</p> <p>FY 2024 Plans: Continue modernization of the Joint Mask Leakage Tester (JSMLT). Continue Fixed Wing Aircraft/Aircrew Personal Protective Equipment (PPE) optimization effort for multiple airframes. Finalize Second Generation Filter Engineering Change Proposal (ECP). Initiate performance characterization for whole life of Individual Protective Equipment (IPE) products. Initiate Chemical Biological Incident Response Force (CBIRF) Class 3 Modernization. Initiate Chemical Biological Radiological and Nuclear Response Enterprise Personal Protective Equipment (CRE PPE) Unit Modernization.</p> <p>FY 2025 Plans: Continue modernization of the Joint Mask Leakage Tester (JSMLT) from multiple configurations to one configuration for ground and aviation face seal testing. Continue Fixed Wing Aircraft/Aircrew Personal Protective Equipment (PPE) optimization effort for multiple airframes. Update technical data for 4th generation filters to meet additional objective requirements for Toxic Industrial Chemicals/Toxic Industrial Materials (TIC/TIMs) through the incorporation of Metal Organic Framework (MOF) technology. Continue Chemical Biological Radiological and Nuclear Response Enterprise Personal Protective Equipment (CRE PPE) Unit Modernization.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase due to technical data updates for 4th generation filters.</p>	9.623	13.350	13.780
Accomplishments/Planned Programs Subtotals	19.649	26.818	22.815

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) PT7 / <i>Protect (Op Sys Dev)</i>

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

Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
			Base	OCO	Total					Complete	Total Cost
• PT5: <i>Protect (SDD)</i>	86.221	97.975	41.664	-	41.664	25.670	15.951	34.836	58.658	Continuing	Continuing
• PHM036: <i>Modernization Protection Collective Protection (MODPROT CP)</i>	1.385	-	-	-	-	-	1.375	2.517	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Modernization Protection Collective Protection (MODPROT CP)

The MODPROT CP approach leverages mature technology from contractor developed components to address and replace obsolete components of various fielded collective protection systems. Modernization efforts will use items developed by the Government that have transitioned from lower to higher technology readiness levels that can be inserted into fielded systems. A combination of competitive and sole source contracts to various industry vendors and project orders to various Government activities will be used to adapt previously developed components to modernize systems. Robust component and system level testing to meet applicable military standards will validate both Government and contractor furnished improvements. The improvements will be added into the specific systems' updated Technical Data Packages (TDPs) to be used in Engineering Change Proposals (ECPs) and provided to the item managers.

Modernization Protection Individual Protection (MODPROT IP)

The MODPROT IP effort will leverage mature technology from contractor developed components to address and replace obsolete components of various fielded individual protection systems. Modernization efforts will also use items developed by the Government that have transitioned from lower to higher technology readiness levels that can be inserted into fielded systems. A combination of competitive and sole source contracts to various industry vendors and project orders to various Government activities will be used to adapt previously developed components to modernize systems. Robust component and system level testing will validate both Government and contractor furnished improvements. The improvements will be added into the specific system's updated Technical Data Packages (TDP) to be used in Engineering Change Proposals (ECP) and provided to the item managers.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program												Date: March 2024			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)						Project (Number/Name) PT7 / Protect (Op Sys Dev)			

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MODPROT CP - HW C - Collective Protection Modernization for Ships	Various	Various : N/A	-	6.604	Nov 2022	8.604	Nov 2023	4.720	Nov 2024	-		4.720	Continuing	Continuing	0.000
MODPROT CP - HW C - Filter Redesign & Modernization, Filter Life Extension Residual Life Indicator (RLI)	MIPR	Various : N/A	-	0.721	Nov 2022	1.167	Nov 2023	0.671	Nov 2024	-		0.671	Continuing	Continuing	0.000
MODPROT IP - HW C - Filter Prototypes, JSMLT Modernization, and CBIRF & CRE Modernization	Various	Various : N/A	-	4.022	Mar 2023	4.576	Nov 2023	2.251	Nov 2024	-		2.251	Continuing	Continuing	0.000
Subtotal			-	11.347		14.347		7.642		-		7.642	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MODPROT CP - ES C - IPT, Technical, Engineering and Logistics Support	MIPR	Various : N/A	-	0.459	Nov 2022	1.652	Nov 2023	2.063	Nov 2024	-		2.063	Continuing	Continuing	0.000
MODPROT IP - ES C - IPT, Engineering, Technical, Logistics Support	MIPR	Various : N/A	-	1.273	Nov 2022	1.318	Nov 2023	1.800	Nov 2024	-		1.800	Continuing	Continuing	0.000
Subtotal			-	1.732		2.970		3.863		-		3.863	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program												Date: March 2024			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)						Project (Number/Name) PT7 / Protect (Op Sys Dev)			

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MODPROT CP - DTE C - CP Modernization Testing	Various	Various : N/A	-	1.465	Oct 2022	1.219	Nov 2023	0.673	Nov 2024	-		0.673	Continuing	Continuing	0.000
MODPROT IP - DTE C - Fixed Wing Aircraft/Aircrew PPE Optimization Effort	MIPR	Various : N/A	-	1.960	Nov 2022	3.497	Nov 2023	3.735	Nov 2024	-		3.735	Continuing	Continuing	0.000
MODPROT IP - DTE C - CRE PPE Testing	MIPR	Various : N/A	-	0.000		0.000		3.817	Nov 2024	-		3.817	Continuing	Continuing	0.000
MODPROT IP - DTE C - Filter Prototype Testing	MIPR	U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) : Aberdeen Proving Ground, MD	-	1.018	Mar 2023	3.141	Nov 2023	0.794	Jul 2025	-		0.794	Continuing	Continuing	0.000
MODPROT IP - DTE C - Base X305 Testing	MIPR	Various : N/A	-	0.374	Apr 2023	0.000		0.000		-		0.000	0.000	0.374	0.000
Subtotal			-	4.817		7.857		9.019		-		9.019	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MODPROT CP - PM/MS C - Program Management Support	MIPR	Various : N/A	-	0.777	Feb 2023	0.826	Nov 2023	0.908	Nov 2024	-		0.908	Continuing	Continuing	0.000
MODPROT IP - PM/MS C - Program Management Support	MIPR	Various : N/A	-	0.976	Nov 2022	0.818	Nov 2023	1.383	Nov 2024	-		1.383	Continuing	Continuing	0.000
Subtotal			-	1.753		1.644		2.291		-		2.291	Continuing	Continuing	N/A

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) PT7 / <i>Protect (Op Sys Dev)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MODPROT CP - M48A1 Filter Redesign	1	2023	4	2025
MODPROT CP - Collective Protection Modernization for Ships and Buildings	1	2023	4	2027
MODPROT CP - Contaminated Filter Changeout Procedures	1	2023	4	2023
MODPROT CP - Collective Protection Design Guide	1	2024	4	2026
MODPROT CP - Liners/Closures Modernization	1	2024	2	2029
MODPROT CP - Filter Service Life Analysis	1	2024	4	2029
MODPROT CP - Mobile Platform Filter Modernization	1	2025	4	2027
MODPROT CP - Next Generation Filter	1	2028	4	2029
MODPROT IP - JSMLT Modernization	1	2023	4	2026
MODPROT IP - Fixed Wing Aircraft/Aircrew PPE Optimization Effort	1	2023	4	2029
MODPROT IP - Tent Permeation Testing	3	2023	4	2024
MODPROT IP - Second Generation Filter Technology Modernization DT	1	2024	4	2025
MODPROT IP - Third Generation Filter Prototype DT	1	2024	2	2028
MODPROT IP - CBIRF Class 3 Modernization	2	2024	4	2024
MODPROT IP - IPE Shelf life Extension Testing	2	2024	4	2024
MODPROT IP - CRE PPE Modernization	2	2024	4	2029
MODPROT IP - Second Generation Filter ECP	4	2025	1	2027
MODPROT IP - Third Generation Filter Technology ECP	4	2027	2	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) MT7 / <i>Mitigate (Op Sys Dev)</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
MT7: <i>Mitigate (Op Sys Dev)</i>	-	4.977	3.074	1.987	0.000	1.987	1.819	1.845	1.862	1.034	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Mitigate Operational System Development Project provides the Joint Force continued readiness of fielded personnel and materiel contamination mitigation and chemical agent therapeutic capabilities and provides size, weight and power improvements to reduce logistical burden on the warfighter.

Efforts included in this Project are:

- (1) Improved Nerve Agent Treatment Centrally Acting (INATS CA),
- (2) Modernization Decontamination (MODPROT DE), and
- (3) Modernization Hazard Mitigation (MOD HM)

The Improved Nerve Agent Treatment System Centrally Acting (INATS CA) includes modernization of Soman Nerve Agent Pretreatment Pyridostigmine (SNAPP; pyridostigmine bromide [PB] tablets). In FY25, the INATS CA program will submit to the FDA for approval, documents supporting PB Extended Release tablets in blister packs. These tablets will provide a single tablet per day dose alternative to the current SNAPP dosing regimen for the pretreatment against soman nerve agent poisoning. Program funding will support post marketing requirements for the PB Extended Release tablets and on-going Stability Studies.

Modernization Decontamination (MODPROT DE) addresses modernization and obsolescence across the Department of Defense (DoD) DE portfolio to increase readiness, sustainability, reliability, and affordability of these systems. Beginning with the obsolescence and technical data concerns, beginning with the M26 Joint Services Transportable Decontamination System-Small Scale (JSTDS-SS) through validation and verification of Technical Manual (TM) changes as well as technical data for spare and repair parts; the M12A1 Power Driven Decontamination Apparatus (PDDA) by updating technical references and performing the necessary validation and verification before publishing an updated TM. In FY25, the program name changes to Modernization Hazard Mitigation (MOD HM) to accurately reflect the capability and applicability of the system.

The Modernization Hazard Mitigation (MOD HM) effort addresses modernization and obsolescence across the Department of Defense (DoD) HM portfolio to increase readiness, sustainability, reliability, and affordability of these systems. Modernization Hazard Mitigation (MOD HM) addresses modernization and obsolescence across the hazard mitigation portfolio to increase readiness, sustainability, reliability, and affordability of these systems. The effort will address obsolescence and technical data concerns through validations and verification of technical data and updating of Technical Manuals (TM). This project was funded in FY24 under the Modernization Decontamination (MODPROT DE) effort, and was renamed MOD HM to accurately reflect the capability and applicability of the system. In FY25, MOD HM will continue modernization efforts to extend service life and sustainment support of the M26 Joint Services Transportable Decontamination System-Small Scale (JSTDS-SS).

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) MT7 / <i>Mitigate (Op Sys Dev)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Title: 1) INATS CA - SNAPP</p> <p>Description: Soman Nerve Agent Pre-Treatment Pyridostigmine (SNAPP) Shelf Life Modernization</p> <p>FY 2024 Plans: Completing on-going stability activities and initiating New Drug Application (NDA) package preparation for FDA submission.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: In FY24 activities are completing due to the acceleration of the program.</p>	0.775	0.506	-
<p>Title: 2) INATS CA - PB Tablet</p> <p>Description: Pyridostigmine Bromide (PB) Extended Release Tablet Development</p> <p>FY 2024 Plans: Continue Extended Release Tablet Development.</p> <p>FY 2025 Plans: Continue Stability Studies and any Post-Marketing requirements assigned by the FDA.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: In FY25 activities costs increasing slightly due to FDA/NDA submission as well as Prescription Drug User Fee Act (PDUFA) fees.</p>	3.154	0.369	0.897
<p>Title: 3) MODPROT DE</p> <p>Description: Upgrades, improvements, and modernizations to fielded decontamination systems</p> <p>FY 2024 Plans: Complete the M12 Pressure Accumulator Project. Continue M26 modernization efforts to extend service life and sustainment support, to include Technical Manual (TM) updates with verification and validation. Initiate and complete the M295 and M100 Performance Characterization Project.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: MODPROT DE program funding transferred to the Modernization Hazard Mitigation (MOD HM) funding line under this project. Decrease of funding from FY24 MODPROT DE to FY25 MOD HM is due to completion of the Tactical Decontamination Outdoor Testing during FY24 and no further testing required in FY25.</p>	1.048	2.199	-
<p>Title: 4) MOD HM</p>	-	-	1.090

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) MT7 / <i>Mitigate (Op Sys Dev)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Description: Upgrades, improvements, and modernizations to fielded decontamination systems			
FY 2025 Plans: Continue M26 modernization efforts to extend service life and sustainment support. Continue M12A1 Power Driven Decontamination Apparatus (PDDA) effort. Complete the Decontamination Kits Characterization Project, which seeks to expand the proven capabilities of the M295 and M100 decontamination kits, begin testing the decontamination kits against the highest priority threats. Initiate the Real Time Shelf Life set-aside program for the Decontamination Family of Systems General Purpose Decontaminant (DFoS GPD) to assess the effect that storage has on its chemistry and performance.			
FY 2024 to FY 2025 Increase/Decrease Statement: Program funding transferred due to program name change from Modernization Decontamination (MODPROT DE) to Modernization Hazard Mitigation (MOD HM) to accurately reflect the capability and applicability of the system.			
Accomplishments/Planned Programs Subtotals	4.977	3.074	1.987

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• MT5: <i>Mitigate (SDD)</i>	66.596	88.441	65.958	-	65.958	68.516	80.822	100.320	97.781	Continuing	Continuing
• JD0050: <i>Decontamination Family of Systems (DFoS)</i>	4.795	6.062	4.878	-	4.878	3.891	5.965	4.996	-	Continuing	Continuing
• PHM040: <i>Improved Nerve Agent Treatment System Centrally Acting (INATS CA)</i>	-	-	-	-	-	-	31.678	39.322	40.108	Continuing	Continuing

Remarks

D. Acquisition Strategy
Improved Nerve Agent Treatment Centrally Acting (INATS CA)

The Improved Nerve Agent Treatment System Centrally Acting (INATS CA) BA7 program consists of modernization efforts for the FDA-approved Soman Nerve Agent Pretreatment Pyridostigmine (SNAPP), a medical pre-treatment against nerve agent poisoning, and the development of a novel pyridostigmine bromide (PB) once-a-day tablet that will allow the services an alternative to the currently used SNAPP product. Both efforts utilize contracts and Other Transactional Agreements (OTAs) in which the performer shall be responsible for conducting development and testing activities consistent with current Food and Drug Administration (FDA) regulations. The

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) MT7 / <i>Mitigate (Op Sys Dev)</i>
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contractor shall work with the current SNAPP sponsor, the Office of Regulatory Affairs (ORA), to submit all relevant data and forms to the FDA, or in the case of the novel PB once-a-day tablet, work with the commercial sponsor of the product on FDA engagements as they will hold all approvals and/or licenses.

Modernization Hazard Mitigation (MOD HM)

The MOD HM effort leverages mature technology from contractor developed components to address and replace obsolete components of various fielded decontamination systems. Modernization efforts will also use items developed by the Government that have transitioned from lower to higher technology readiness levels that can be inserted into fielded systems. A combination of competitive and sole source contracts to various industry vendors and project orders to various Government activities will be used to adapt previously developed components to modernize systems. Robust component and system level testing will validate both Government and contractor furnished improvements. The improvements will be added into the specific system's updated Technical Data Packages (TDPs) to be used in Engineering Change Proposals (ECPs) and provided to the item managers.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program												Date: March 2024			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)						Project (Number/Name) MT7 / Mitigate (Op Sys Dev)			

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
INATS CA - HW C - Shelf Life Modernization (SNAPP)	C/CPFF	CMC Pharma : Cleveland, OH	-	0.705	Dec 2022	0.330	Nov 2023	0.000		-		0.000	0.000	1.035	0.000
INATS CA - HW C - PB Extended Release	C/FP	Amneal Pharmaceuticals : Hauppauge, NY	-	2.031	Dec 2022	0.329	Oct 2023	0.822	Dec 2024	-		0.822	Continuing	Continuing	0.000
INATS CA - HW C - Direct Product Support	Various	JPM CBRN Medical, JPEO-CBRND : Fort Detrick, MD	-	0.629	Dec 2023	0.080	Nov 2023	0.036	Dec 2024	-		0.036	Continuing	Continuing	0.000
INATS CA - HW C - SBIR/STTR	Various	JPEO Chem, Bio, Rad, and Nuc Defense (JPEO-CBRND) : Aberdeen Proving Ground, MD	-	0.081	Dec 2022	0.040	Nov 2023	0.000		-		0.000	0.000	0.121	0.000
MODPROT DE - HW C - M26 Tech Data Package; Modernization Update / M12A1 TM Update	Various	Various : N/A	-	0.790	Oct 2022	1.735	Nov 2023	0.000		-		0.000	0.000	2.525	0.000
MOD HM - HW C - M26 Modernization, Decon Kits, M333 Real Time Shelf Life Project	Various	Various : N/A	-	0.000		0.000		0.896	Nov 2024	-		0.896	Continuing	Continuing	0.000
Subtotal			-	4.236		2.514		1.754		-		1.754	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MODPROT DE - DTE C - IPT, Engineering, Technical, Logistics Support	MIPR	Various : N/A	-	0.137	Oct 2022	0.329	Nov 2023	0.000		-		0.000	0.000	0.466	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Chemical and Biological Defense Program **Date:** March 2024

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / Chemical and Biological Defense (Operational Systems Development)	Project (Number/Name) MT7 / Mitigate (Op Sys Dev)
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Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MOD HM - ES S - IPT, Engineering, Technical, Logistics Support	Various	Various : N/A	-	0.000		0.000		0.084	Nov 2024	-		0.084	Continuing	Continuing	0.000
Subtotal			-	0.137		0.329		0.084		-		0.084	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
INATS CA - PM/MS C - Management Services	Various	JPEO Chem, Bio, Rad, and Nuc Defense (JPEO-CBRND) : Aberdeen Proving Ground, MD	-	0.483	Dec 2022	0.096	Nov 2023	0.039	Dec 2024	-		0.039	Continuing	Continuing	0.000
MODPROT DE - PM/MS C - Program Management Support	Various	Various : N/A	-	0.121	Nov 2022	0.135	Nov 2023	0.000		-		0.000	0.000	0.256	0.000
MOD HM - PM/MS C - Program Management Support	Various	Various : N/A	-	0.000		0.000		0.110	Nov 2024	-		0.110	Continuing	Continuing	0.000
Subtotal			-	0.604		0.231		0.149		-		0.149	Continuing	Continuing	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	4.977	3.074	1.987	-	1.987	Continuing	Continuing	N/A

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Chemical and Biological Defense Program		Date: March 2024
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607384BP / <i>Chemical and Biological Defense (Operational Systems Development)</i>	Project (Number/Name) MT7 / <i>Mitigate (Op Sys Dev)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
INATS CA - SNAPP Modernization - BA7	1	2023	4	2024
INATS CA - PB Extended Release Long Term Stability	1	2023	4	2024
INATS CA - PB Extended Release Tablet Development - BA7	1	2023	1	2024
MODPROT DE - M12A1 TM Update	1	2023	4	2023
MODPROT DE - M26 JSTDS-SS TDP	1	2023	4	2023
MODPROT DE - M26 JSTDS-SS Modernization	1	2023	4	2024
MODPROT DE - M295 & M100 Performance Characterization	1	2024	4	2024
MODPROT DE - M12 Pressure Accumulator	1	2024	4	2024
MOD HM - Decontamination Kits Characterization	1	2025	4	2025
MOD HM - M26 Control Panel Modernization	1	2025	4	2025
MOD HM - M26 Obsolescence Mitigation	1	2025	4	2025
MOD HM - M26 Equipment Assessment	1	2025	4	2025
MOD HM - M12 Modernization	1	2025	4	2029
MOD HM - M26 JSTDS-SS Modernization	1	2025	4	2029