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**Department of Defense  
Fiscal Year (FY) 2025 Budget Estimates**

March 2024



**Chemical and Biological Defense Program**

*Defense-Wide Justification Book Volume 1 of 2*

***Procurement, Defense-Wide***

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Chemical and Biological Defense Program • Budget Estimates FY 2025 • Procurement

**Table of Volumes**

Chemical and Biological Defense Program.....Volume 1

Defense Counterintelligence and Security Agency..... Volume 1

Defense Information Systems Agency.....Volume 1

Defense Logistics Agency.....Volume 1

Defense Media Activity..... Volume 1

Defense POW MIA Accounting Agency..... Volume 1

Defense Production Act Purchases..... Volume 1

Defense Threat Reduction Agency.....Volume 1

Department of Defense Education Activity..... Volume 1

DoD Human Resources Activity..... Volume 1

Office of the Secretary Of Defense..... Volume 1

The Joint Staff..... Volume 1

United States Cyber Command..... Volume 1

United States Special Operations Command.....Volume 1

Washington Headquarters Services..... Volume 1

Missile Defense Agency..... Volume 2

**UNCLASSIFIED**

UNCLASSIFIED

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**UNCLASSIFIED**

Chemical and Biological Defense Program • Budget Estimates FY 2025 • Procurement

**Volume 1 Table of Contents**

**Introduction and Explanation of Contents.....Volume 1 - v**  
**Comptroller Exhibit P-1.....Volume 1 - xv**  
**Line Item Table of Contents (by Appropriation then Line Number)..... Volume 1 - xxi**  
**Line Item Table of Contents (Alphabetically by Line Item Title)..... Volume 1 - xxiii**  
**Exhibit P-40s..... Volume 1 - 1**

**UNCLASSIFIED**

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## Chemical and Biological Defense Program Fiscal Year 2025 Budget Overview

Thirty years after its creation, the Chemical and Biological Defense Program (CBDP) is at an inflection point. Chemical and biological (CB) threats are metastasizing due to geopolitical and technological changes with profound impacts on how the CBDP must achieve its mission.

Senior Administration and Department leaders have now recognized the risks of novel CB threats, resulting in a new collection of strategic guidance and increased prioritization. It is the responsibility of the CBDP to translate this strategic direction into concrete action that ensures the Joint Force is equipped to fight and win in CB-contested environments.

To do so, the CBDP has launched an ambitious pivot that is transforming everything from how we are organized to the capabilities we pursue. The Under Secretary of Defense for Acquisition and Sustainment has approved a new CBDP governance framework, which strengthens alignment to White House and Departmental strategic objectives, ensures warfighter needs are incorporated, and more tightly integrates the CBDP Enterprise. This new framework enables us to pursue a portfolio-based approach to identify and close capability gaps more quickly. The overriding priority is to shrink the time from concept origination to capability delivery. Although much work remains, business operation reforms are already having noticeable impacts, including improving first-year Research, Development, Test and Evaluation (RDT&E) execution rates.

Building off these reforms, the CBDP is putting forward a FY2025 budget request of \$1,656.7 Million (M). These funds will enable the CBDP to continue the Program's existing momentum, allowing the Program to meet strategic guidance and adapt faster than the threat. This budget request continues the Enhanced Biodefense and Pandemic Preparedness (ENBD) funding that began in Fiscal Year (FY) 2023 and includes investments to close gaps identified by the 2023 Biodefense Posture Review. In short, this budget request enables the CBDP to equip the Joint Force with the capabilities it needs to deter CB use or, if necessary, prevail in CB-contested environments both now and in the future.

### ***Strategic Overview***

The CBDP is flush with strategic guidance. Both the 2022 *National Security Strategy* and 2022 *National Defense Strategy* prioritize strategic competition and the growing risk of CB threats. As described more below, the CBDP is impacted by both these challenges.

The *NDS* identifies the People's Republic of China (PRC) as the pacing challenge, and Russia as an acute threat. The same document lists North Korea and Iran as persistent challenges. The United States assessed Russia and North Korea both maintain offensive biological and chemical weapons programs and raised concerns about Iran's compliance with the Chemical Weapons Convention (CWC) and Biological Weapons and Toxins Convention (BWC).



The United States also has concerns about the PRC’s compliance with the BWC and cannot certify that the PRC has met its CWC obligations in light of its research on pharmaceutical-based agents and toxins with potential dual use applications. The Department assesses that the PRC probably has the technical expertise to weaponize CB agents and delivery systems that can be adapted for chemical and biological weapons (CBW). Additionally, Chinese publications have described biology as a new domain of warfare and PRC leaders aspire to make their country a world leader in dual-use scientific disciplines, such as in genetic engineering, precision-medicine, and brain sciences.

The NDS identifies integrated deterrence as the backbone of the Department’s approach to addressing strategic competition. Integrated deterrence is enabled by combat-credible forces prepared to fight and win, as needed, and backstopped by a safe, secure, and effective nuclear deterrent. Both the *NDS* and the *2023 Strategy for Countering Weapons of Mass Destruction* (hereinafter *CWMD Strategy*) affirm that combat-credible forces must be able to operate in CB-contested environments. The Department’s *Strategic Management Plan for Fiscal Years 2022 – 2026* (SMP) identifies CB defense as a priority within Strategic Objective 1.4: “Modernize and sustain the nuclear deterrent and protect against chemical and biological threats.”

The CBDP also receives strategic guidance from the *2022 National Biodefense Strategy and Implementation Plan on Countering Biological Threats, Enhancing Pandemic Preparedness, and Achieving Global Health Security*. This serves as the interagency playbook on biodefense, with the Department of Defense (DoD) as the co-lead for deterring biological weapons. The CBDP also supports DoD’s contributions to the NBS in many other areas, including early warning and rapidly developing medical countermeasures (MCMs).

In 2023, DoD published the first of its kind *Biodefense Posture Review (BPR)*. Building off the *NDS* and *NBS*, the *BPR* postures the Department to counter biothreats—whether deliberate attack, accidental release, or naturally occurring—through 2035. The *BPR* established a new four star-level body, the Biodefense Council (BDC), to holistically coordinate internally, prioritize threats, and provide oversight of biodefense capabilities. The CBDP will actively support the BDC and contribute to the *BPR*’s four reform initiatives:

- 1) Enhance early warning and understanding to counter biothreats;
- 2) Improve preparedness for a resilient Total Force;
- 3) Speed response to mitigate the impact on DoD missions and the Total Force;
- 4) Improve strategic coordination and collaboration to enhance biodefense.





## ***Impact on CBDP***

CBDP's mission is receiving an appropriately high level of senior level attention because the threat landscape is rapidly evolving. Science and Technology (S&T) advances are making CB weapons increasingly attractive to potential adversaries. Synthetic biology and chemistry are converging with other emerging technologies, including artificial intelligence, big data, and nanotechnology. The National Intelligence Council has termed this bioconvergence, but it applies equally to the chemical space.

In the past, CB weapons were unstable to use with unpredictable results. Bioconvergence will potentially enable adversaries to design stable CB weapons with precise and tailorable impacts, furthering their ability to use them for a diverse array of objectives across the conflict continuum. Bioconvergence will also challenge our ability to detect and attribute CB threats, potentially making adversaries see them as more attractive than kinetic weapons to achieve the same effects. Finally, armed with bioconvergence, adversaries can potentially re-create pathogenic viruses, engineer de novo agents, or tweak existing ones to evade our physical and medical sensors and defenses.

Traditionally, the Department designed distinct countermeasures against a defined list of CB threats. With bioconvergence, the number of potential threats is exponentially larger, and some cannot be identified ahead of time. In this environment, a “one bug, one drug” approach is obsolete. In response, the CBDP has published a new approach for the Research, Development, and Acquisition of Medical Countermeasures and Test Products (hereinafter “MCM approach.”) Utilizing Enhanced Biodefense and Pandemic Preparedness (ENBD) funding, the new MCM approach seeks to provide the Joint Force with MCMs that enable it to fight through initial unknown agents and be agile enough to rapidly respond with narrow-spectrum MCMs once a threat has been identified.

Bioconvergence, when paired with the renewed emphasis in the NDS on nation state competition, necessarily expands the scope and focus of the CBDP mission. The Joint Force is developing new operational concepts and force postures to achieve the NDS mission in the current security environment. The CBDP must adapt CB defense capabilities to fit these new operational concepts, and not ask the Joint Force to adapt to meet CB defense capability needs.

The Department can no longer assume that CB attacks will be limited in scale. State actors have the resources and technical acumen to potentially pose CB threats across multi-domains and vast geographical expanses, including the homeland. Consequently, CB defense can no longer focus on specialized units that wait to deploy and provide expertise when asked to do so. Instead, as the CWMD Strategy notes, “the Total Force must carry out CWMD efforts daily,” and “the Department must now recapitalize, and in some cases reconstitute, its ability to conduct large-scale joint operations within a WMD-contested environment.” In this environment, the CBDP must deliver capabilities scaled to the Total Force. The FY25 budget request funds S&T projects to overcome barriers to scale and includes investments aimed at building up the necessary manufacturing capabilities.

Furthermore, the Department can no longer assume that CB threats will only impact the Joint Force during an armed conflict. In the era of strategic competition, potential adversaries may view CB threats as tools for coercion, warfighting, and constraining U.S. options across the three phases of the conflict continuum: competition, crisis, and armed conflict. Indeed, adversaries could view CB weapons as versatile

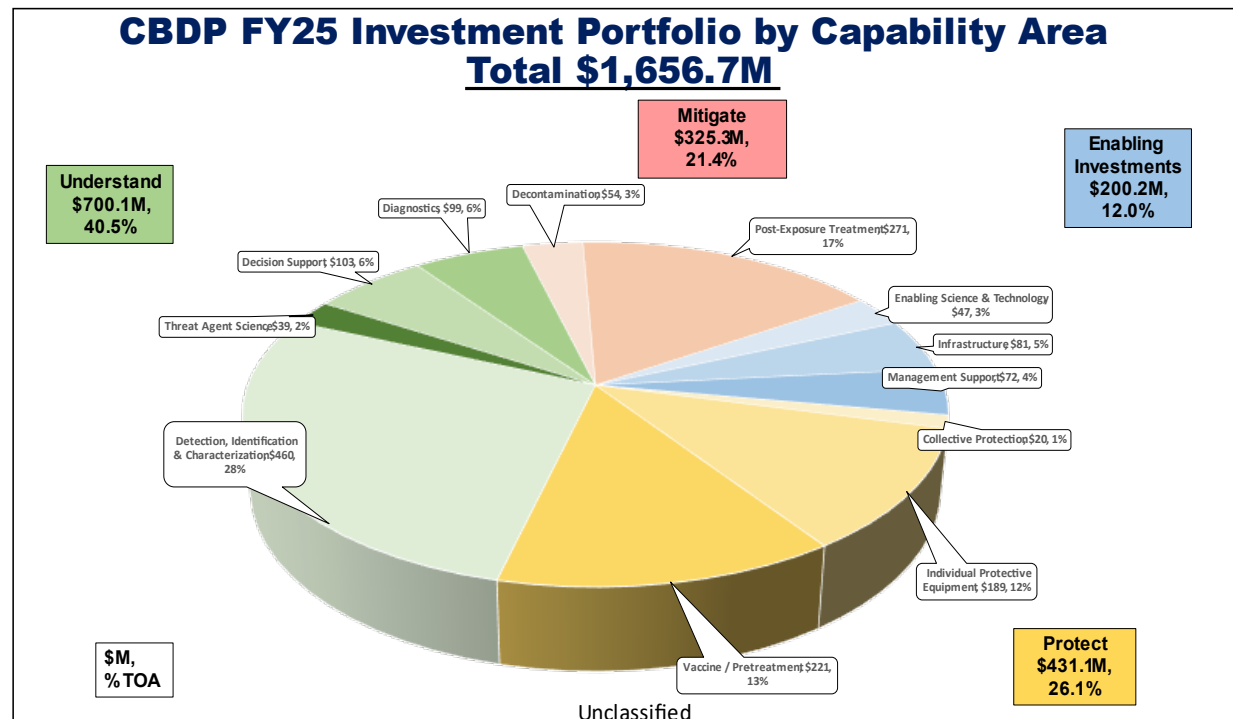


tools, from misinformation aimed at disrupting alliance cohesion and targeted killings to mass casualty attacks on cities with nuclear-like impacts. In between, CB threats can have strategic, operational, and tactical impacts on Joint Force operations that can be similar to kinetic weapons, including to support anti-access/area denial objectives.

The Joint Force must be equipped with capabilities across the conflict continuum. Personal protective gear is essential during crises and armed conflict but won't be worn during the competition phase. Similarly, biosurveillance capabilities like wastewater surveillance are essential for providing early warning during the competition phase but may not provide the near-real time information required during a crisis or armed conflict.

### ***FY 2025 Portfolio Overview***

The FY 2025 budget request of \$1,656.7M enables the CBDP to translate strategic guidance into concrete capabilities tailored to the future threat. This budget request continues the ENBD efforts to modernize the Department's biodefense capabilities to stay ahead of the threat.



Starting in FY23, the CBDP moved to a portfolio-based management approach to strengthen oversight, identify and buy down risk, and close capability gaps. The CBDP investments are aligned to the following portfolios (Figure 1):

- **Understand Portfolio (\$700.1M)** - Investments in this Portfolio aim to prevent strategic surprise and increase decision space for different echelons of the Joint Force as well as, political leaders and acquisition developers. Understand efforts begin far left of boom through Threat Agent Science investments, which provide over-the-horizon technology scanning to help the Department avoid strategic surprise. This budget helps increase the number of detection and sensing capabilities—from biosurveillance to CB sensors and wearables—with a focus on threat-agnostic systems. The goal is to increase the number of

Figure 1



sensors—as well as their detection accuracy, range and effectiveness—while integrating them into the Service’s existing systems to reduce the logistical burden on the warfighters. Other efforts in areas like threat characterization, environmental response, diagnostics, and advanced analytics translate this raw intelligence into actionable information to expand the Joint Force’s situational awareness. Rapid characterization of CB threats also enables rapid response countermeasure development and delivery. These advanced analytical capabilities harness emerging technologies including genome sequencing and AI/machine learning. Other Understand investments ensure these data integrate seamlessly with the Service’s existing non-CB sensor systems and relevant information systems, removing the need for warfighters to actively seek out CB threat information.

- Protect Portfolio (\$431.1M)– Investments in this portfolio enable the Warfighter to fight through CB exposure by limiting its impact. Efforts include personal protective equipment, collective protection, and prophylaxis MCMs. Developmental efforts focus on advances in materials and systems engineering to make personal protective gear more natural to operate in, while expanding the range of threats it protects against. MCM investments focus on developing platform-based approaches that will enable the rapid development and delivery of prophylaxis MCMs once a threat is characterized.
- Mitigate Portfolio (\$325.3M) – Investments are focused on rapid response and recovery to CB hazards by quickly restoring combat readiness of critical personnel and platforms. Developmental efforts address personnel decontamination and materiel decontamination including sensitive equipment and aircraft. Novel decontamination approaches focus on broad decontaminant applicability to CB hazards, while minimizing harm to individuals, equipment, and platforms. Medical countermeasure efforts focus on discovery and development of therapeutic products treating biological agents (bacteria, toxins, and viruses), emerging infectious diseases, and chemical agents. This includes investments aimed at quickly identifying existing MCMs that can be repurposed to address CB threats. Repurposing helps accelerate the drug development and delivery process and reduces manufacturing constraints.
- Enabling Investments (\$200.2M) – Provides fundamental knowledge, support to Research, Development, Testing, and Evaluation (RDT&E) infrastructure, technology demonstrations, and overarching RDT&E support functions as portfolio enablers key to responding to emerging threats. Dedicated funding in this portfolio supports National and Departmental response and preparedness to CB threats. Investments are also aimed at manufacturing optimization and other enabler capabilities to ensure the Department can deliver capabilities at the necessary speed and scale.



## *Modernized Chemical and Biological Defense*

Figure 2

Although managed from a portfolio perspective, the CBDP is adopting an integrated layered defense (ILD) approach to align to strategic guidance, stay ahead of the threat, and get capabilities in the hands of the warfighter. ILD is the deliberate and synergistic employment of multi-domain CBRN capabilities, arranged through time, space, and purpose, to enable the understanding of the environment, protection of the joint force, and mitigation of risks posed by CBRN threats and hazards. This approach denies adversary effects and increases total force resilience. From an acquisition standpoint, ILD recognizes we are never going to build the perfect sensor, personal protective gear, or vaccine. Instead, the CBDP will seek to combine capabilities within and across the different portfolios to effectively buy down risk and get capabilities into the warfighters' hands.

The new MCM approach also cuts across different portfolios. Faced with too many potential threats to continue a “one bug, one drug” approach, the new MCM approach pursues a two-pronged approach aimed at removing or reducing agents' impact. The first prong seek broad-spectrum and threat agnostic capabilities that enable the Joint Force to fight through an unknown or novel agents. This includes threat-agnostic diagnostics as well as broad-spectrum MCMs that target classes of threats and host-directed MCMs that reduce transmission or severity, address symptoms, and allow for the warfighter to return to service more quickly. The second part of the MCM approach is building rapid response capabilities to rapidly develop and delivery narrow-spectrum MCM once a threat has been characterized.

During the competition phase, our day-to-day focus is on developing broad-spectrum MCMs and speeding up our rapid response platforms. For the latter, the competition phase focuses on developing different types of MCMs (mRNA vaccines, repurposed therapeutics, monoclonal antibodies) to improve our manufacturing processes and learning lessons to speed up future response times. Expanding the library of MCMs in the shelf will enable the CBDP to tweak them to address new but similar threats. Additionally, the CBDP is focused on manufacturing optimization and investing in key enabling technologies (including artificial intelligence/machine learning) to accelerate drug discovery, development, and delivery. ENBD funding is crucial to implementing this new MCM approach, including (but not limited to) through the following programs:

- Accelerated Antibodies,
- Vaccine Acceleration by Modular Progression,
- Countering Emerging Threats Rapid Acquisition and Investigation of Drugs for Repurposing,
- Discovery of MCMs Against Novel Entities, and
- Generative Unconstrained Intelligent Drug Engineering.

ENBD funding also modernizes the current operating paradigms including novel sciences and technologies that drive the United States' dynamic private industry. These additional resources will allow the Department to prioritize and support Joint All-Domain Operations and



integrate the Department's biodefense capabilities with interagency investments. Ultimately, this approach will posture the Department to quickly detect and identify emerging biological threats, reduce risks, and prepare for, respond to, and recover from any type of biological threat-based event.

The enhanced investment levels are focused on advancing five key overarching goals aligned to the NBS, BPR, and 2021 American Pandemic Preparedness Plan:

**(1) Enhancing Rapid Response Vaccine Platforms Research and Manufacturing**

- *Establish key partnerships and exploit successful vaccine platforms, prototypes, and manufacturing capabilities*
- *Enhance the discovery or development of rapid response vaccine platforms research and manufacturing*

**(2) Expediting Surveillance and Pathogen Characterization (including diagnostics and detection)**

- *Enhance the flow of surveillance data and samples through a network of laboratories*
- *Expands deployable analytical capabilities, wearable technologies and leverages data analysis and modeling with machine learning/artificial intelligence*

**(3) Expanding Protection & Hazard Mitigation Capabilities**

- *Accelerates prototyping and delivery of low-burden biothreat respiratory protection, collective protection, isolation systems, and improved disinfection*

**(4) Evolving Therapeutics Research and Development**

- *Focused on delivering or making available Food and Drug Administration (FDA) approved MCM products or tests to the warfighter that can either be immediately deployed in far-forward settings or included with the warfighter prior to deployment*

**(5) Enhancing Biodefense Workforce and Biosafety**

- *Adds critical technical expertise enhancing the CBDP biodefense and biosecurity activities and supply chain resiliency*

***FY 2025 Budget Request Highlights***

This budget implements an integrated portfolio approach reducing risk in research, development, and acquisition and quickly delivering capabilities into the warfighter's hands. The increased resources for this portfolio are in direct support of the 2023 BPR. FY 2025 funding continues investments in Service and Combatant Commander priorities, to include focused efforts providing rapid capability for the Special Operations Forces.



## **RDT&E**

The FY 2025 RDT&E budget request of \$1,230.6M supports key efforts including:

- \$281.1M supporting enhanced biodefense and pandemic preparedness efforts. Efforts are focused on accelerating characterization and situational awareness of emerging biothreats, optimizing MCM manufacturing, and accelerating delivery of improved protection from and mitigation of biothreats, including rapid repurposing of available therapeutics and development of new vaccines.
- \$492.5M to implement the new MCM approach.
- \$281.5M supporting RDT&E efforts advancing environmental detection and medical diagnostic capabilities providing enhanced situational awareness of traditional and non-traditional chemical hazards, as well as traditional and emerging biological hazards.
- \$103.8M supporting RDT&E for personnel protection, respiratory and ocular protection, collective protection, and hazard mitigation capabilities against traditional and non-traditional CB agents.
- \$100.6M supporting integrated early warning, warning & reporting, decision support, and modeling and simulation capabilities.
- \$76.4M supporting basic research and threat agent sciences, advancing fundamental knowledge and experimental research in the life and physical sciences.
- \$47.0M supporting improved preparedness and response to include dedicated efforts improving capabilities to address potential future pandemic and biological incidents.
- \$41.2M supporting concepts development, technology demonstrations, enhanced capability demonstrations, and Special Operations Forces (SOF) Rapid Capability Development and Deployment to enhance military operational capabilities with technologies and equipment. Resources a dedicated innovation fund to rapidly address emerging threats.



## **Procurement**

The FY 2025 Procurement budget request of \$426.0M supports key efforts including:

- \$141.3M to procure improved air crew and ground forces protective ensembles to increase protection against advanced chemical and biological threats and decrease physiological burden. Includes non-medical protective equipment allowing the Operational Force to maintain a 90-day contingency supply.
- \$74.1M to procure CBRN Dismounted Reconnaissance Sets, Kits, and Outfits which allows warfighters to perform CBRN dismounted reconnaissance, surveillance, and site assessment of WMD suspect areas not accessible by traditional CBRN reconnaissance-mounted platforms.
- \$67.1M to procure near-term urgent CBD requirements providing SOF critical life-saving protective capabilities and systems to safely operate in a CB-contaminated environment.
- \$45.7M to procure novel chemical detection equipment including the Multi-phase Chemical Agent Detector, Compact Vapor Chemical Agent Detector, and the Solid Liquid Adaptor for the Joint Chemical Agent Detector. Capabilities will provide portable chemical detection capabilities supporting solid, liquid, and vapor sampling and detection to alert general and specialized units to an unsafe environment without further impacting mission requirements.
- \$31.6M to procure Enhanced Maritime Biological Detectors and Joint Biological Tactical Detection Systems (including the Joint Handheld Biological Identifier) providing improved detection and identification capabilities with decreased operational costs and increased reliability for detection of biological agents.
- \$15.3M to procure the Advanced Anticonvulsant System providing a midazolam autoinjector for treatment against nerve induced seizures supporting operational readiness.

## ***Summary***

Political, Military, and Department leaders have rightly concluded that CB agents increasingly threaten the Joint Force's ability to achieve its NDS objectives and defend the nation. The CBDP is transforming itself to better align to strategic guidance, support interagency and intra-Department efforts, and provide Joint Force with the capabilities it needs to fight and win against the current and future threat. The CBDP \$1,656.7M request focuses on key efforts across the Understand, Protect, Mitigate and Enable portfolios to provide these necessary CB defense capabilities. Amid this new technological revolution, the United States must continue modernizing our defensive capabilities and reinvest in the Department's scientific and technological edge.





Department of Defense  
 FY 2025 President's Budget  
 Exhibit P-1 FY 2025 President's Budget  
 Total Obligational Authority  
 DoD Component Summary  
 (Dollars in Thousands)

<u>Appropriation Summary</u>	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments	FY 2025 Request
Procurement, Defense-Wide	318,541	391,710	426,039
<b>Total Defense-Wide</b>	<b>318,541</b>	<b>391,710</b>	<b>426,039</b>
<b>Grand Total Department of Defense</b>	<b>318,541</b>	<b>391,710</b>	<b>426,039</b>

\*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

**Defense-Wide**  
**FY 2025 President's Budget**  
**Exhibit P-1 FY 2025 President's Budget**  
**Total Obligational Authority**  
**Defense Summary**  
 (Dollars in Thousands)

<u>Appropriation Summary</u>	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
Procurement, Defense-Wide	318,541	391,710	426,039
<b>Total Defense-Wide</b>	<b>318,541</b>	<b>391,710</b>	<b>426,039</b>

\*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of Defense  
 FY 2025 President's Budget  
 Exhibit P-1 FY 2025 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Organization: Procurement, Defense-Wide	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments'	FY 2025 Request
Chemical and Biological Defense Program, CBDP	318,541	391,710	426,039
<b>Total Defense-Wide</b>	<b>318,541</b>	<b>391,710</b>	<b>426,039</b>

\*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

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Defense-Wide  
FY 2025 President's Budget  
Exhibit P-1 FY 2025 President's Budget  
Total Obligational Authority  
0300D BA Summary  
(Dollars in Thousands)

Mar 2024

Appropriation: **Procurement, Defense-Wide**

	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments	FY 2025 Request
<b>Budget Activity</b>			
03. Chemical/Biological Defense	318,541	391,710	426,039
<b>Total Procurement, Defense-Wide</b>	<b>318,541</b>	<b>391,710</b>	<b>426,039</b>

\*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

**Defense-Wide**  
**FY 2025 President's Budget**  
**Exhibit P-1 FY 2025 President's Budget**  
**Total Obligational Authority**  
**0300D Detail**  
 (Dollars in Thousands)

Appropriation: 0300 Procurement, Defense-Wide				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost	Quantity	Cost
<b><u>Budget Activity 03: Chemical/Biological Defense</u></b>									
<b>CRDP</b>									
72	Chemical Biological Situational Awareness	A	U		145,187		159,884		215,038
73	CB Protection & Hazard Mitigation	A	U		173,354		231,826		211,001
<b>Total Chemical/Biological Defense</b>					<b>318,541</b>		<b>391,710</b>		<b>426,039</b>
<b>Total Procurement, Defense-Wide</b>					<b>318,541</b>		<b>391,710</b>		<b>426,039</b>

\*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

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Chemical and Biological Defense Program • Budget Estimates FY 2025 • Procurement

**Line Item Table of Contents (by Appropriation then Line Number)**

***Appropriation 0300D: Procurement, Defense-Wide***

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<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Line Item Number</b>	<b>Line Item Title</b>	<b>Page</b>
72	03	01	7001SA1000	Chemical Biological Situational Awareness.....	Volume 1 - 1
73	03	01	8001PH1000	CB Protection & Hazard Mitigation.....	Volume 1 - 69

**UNCLASSIFIED**

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Chemical and Biological Defense Program • Budget Estimates FY 2025 • Procurement

**Line Item Table of Contents (Alphabetically by Line Item Title)**

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
CB Protection & Hazard Mitigation	8001PH1000	73	03	01.....	Volume 1 - 69
Chemical Biological Situational Awareness	7001SA1000	72	03	01.....	Volume 1 - 1

**UNCLASSIFIED**

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**Exhibit P-40, Budget Line Item Justification:** PB 2025 Chemical and Biological Defense Program **Date:** March 2024

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: CBDP	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	1,148.737	145.187	159.884	215.038	0.000	215.038	239.684	268.935	262.614	279.118	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	1,148.737	145.187	159.884	215.038	0.000	215.038	239.684	268.935	262.614	279.118	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>1,148.737</b>	<b>145.187</b>	<b>159.884</b>	<b>215.038</b>	<b>0.000</b>	<b>215.038</b>	<b>239.684</b>	<b>268.935</b>	<b>262.614</b>	<b>279.118</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The Situational Awareness (Understand) Portfolio enhances commanders' tactical and operational decisions by developing and fielding stronger detection and identification capabilities for Chemical Biological (CB) reconnaissance, surveillance, and site exploitation missions. Focus is on increased detection accuracy, range and effectiveness to seamlessly integrate with non-CB sensor systems and relevant information systems, and Service fielded unmanned platforms.

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**Exhibit P-40, Budget Line Item Justification: PB 2025 Chemical and Biological Defense Program** **Date:** March 2024

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: CBDP **P-1 Line Item Number / Title:** 7001SA1000 / Chemical Biological Situational Awareness

**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

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 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-5	SA0015 / Aerosol Vapor Chemical Agent Detector (AVCAD)	P-5a, P-21	B		- / 0.000	- / 0.000	- / 2.458	- / 42.496	- / 0.000	- / 42.496
P-5	SA0017 / Multiphase Chemical Agent Detector (MPCAD)	P-5a	B		- / 0.000	- / 4.014	- / 13.561	- / 0.000	- / 0.000	- / 0.000
P-5	SA0058 / Proximate Chemical Agent Detector (PCAD)		B		- / 0.000	- / 0.000	- / 0.000	- / 1.609	- / 0.000	- / 1.609
P-5	SA0025 / Analytical Laboratory System Modification (ALS MOD)	P-5a	A		- / 75.216	- / 3.894	- / 4.256	- / 4.818	- / 0.000	- / 4.818
P-5	JS0005 / Common Analytical Laboratory System (CAL S)	P-5a, P-21	A		- / 165.060	- / 30.530	- / 7.167	- / 21.323	- / 0.000	- / 21.323
P-5	SA0043 / Next Generation Diagnostics System 2 Chemical Diagnostics (NGDS 2 CHEM DX)	P-5a	B		- / 0.000	- / 0.000	- / 1.881	- / 4.891	- / 0.000	- / 4.891
P-5	JF0108 / Joint Handheld Bio-agent Identifier (JHBI)	P-5a	A		- / 6.628	- / 2.524	- / 0.500	- / 0.480	- / 0.000	- / 0.480
P-5	MX0001 / Joint Biological Tactical Detection System (JB TDS)		B		- / 16.733	- / 0.000	- / 7.025	- / 9.872	- / 0.000	- / 9.872
P-5	SA0003 / Enhanced Maritime Biological Detection (EMBD)	P-5a, P-21	A		- / 49.920	- / 21.472	- / 21.899	- / 21.203	- / 0.000	- / 21.203
P-5	SA0042 / Joint Chemical Agent Detector Solid Liquid Adaptors (JCAD SLA)	P-5a	A		- / 21.390	- / 18.135	- / 8.928	- / 1.613	- / 0.000	- / 1.613
P-5	MC0101 / Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)	P-5a, P-21	A		- / 746.073	- / 47.324	- / 60.492	- / 74.140	- / 0.000	- / 74.140
P-5	SA0056 / Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU)	P-5a	B		- / 0.000	- / 0.000	- / 16.795	- / 0.000	- / 0.000	- / 0.000
P-5	JS5230 / Modernization Chemical Biological Radiological Nuclear Information Systems (MOD CBRN IS)		A		- / 23.688	- / 0.656	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	SA0050 / Chemical Biological Radiological Nuclear Support to Command and Control (CSC2)		A		- / 1.750	- / 11.803	- / 2.186	- / 2.257	- / 0.000	- / 2.257
P-5	SA0005 / Chemical Biological Radiological Nuclear Sensor Integration on Robotic Platforms (CSIRP)		B		- / 5.711	- / 2.099	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	JX0210 / Defense Biological Products Assurance Program (DBPAP)		A		- / 36.568	- / 2.736	- / 2.736	- / 2.736	- / 0.000	- / 2.736
P-5	SA0057 / Chemical and Biological Wearables (CB WEARABLES)	P-5a	B		- / 0.000	- / 0.000	- / 10.000	- / 10.100	- / 0.000	- / 10.100
P-5	SA0055 / Wearable All Hazard Remote Monitoring Program (WARP)	P-5a, P-21	B		- / 0.000	- / 0.000	- / 0.000	- / 17.500	- / 0.000	- / 17.500
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 1,148.737</b>	<b>- / 145.187</b>	<b>- / 159.884</b>	<b>- / 215.038</b>	<b>- / 0.000</b>	<b>- / 215.038</b>

\*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.

**Justification:**  
 Situational Awareness is a primary objective of the Chemical Biological Defense Program. Operational forces must safely operate, survive, and sustain operations in a Chemical Biological agent threat environment. Contamination Avoidance maintains operational efficiency and minimizes the need to decontaminate vehicles, equipment, and areas. Advanced chemical and biological defensive equipment strengthens the US's capability to detect and identify threat agents in the battle space and the homeland.  
  
 Warning, reporting, and reconnaissance efforts enable a tiered strategy detecting and warning complementary detection/identification systems to provide theater protection against large area and point attacks. Supports Special Purpose Unit operations and the National Guard Bureau Weapons of Mass Destruction Civil Support Teams (WMD-CSTs).

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0015 / Aerosol Vapor Chemical Agent Detector (AVCAD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	2.458	42.496	0.000	42.496
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	2.458	42.496	0.000	42.496
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>2.458</b>	<b>42.496</b>	<b>0.000</b>	<b>42.496</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Initial Consumables, Parts/List Items, Warranty	-	-	0.000	-	-	0.000	-	-	0.000	-	-	4.884	-	-	0.000	-	-	4.884
Shipboard Fixed <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	140.000	15	2.100	-	-	0.000	140.000	15	2.100
Man-Portable <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	26.163	1,032	27.000	-	-	0.000	26.163	1,032	27.000
<b>Subtotal: Recurring Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>33.984</b>	-	-	<b>0.000</b>	-	-	<b>33.984</b>
<b>Non Recurring Cost</b>																		
First Article Test	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.700	-	-	0.000	-	-	0.700
<b>Subtotal: Non Recurring Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.700</b>	-	-	<b>0.000</b>	-	-	<b>0.700</b>
<b>Subtotal: Hardware Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>34.684</b>	-	-	<b>0.000</b>	-	-	<b>34.684</b>
<b>Package Fielding Cost</b>																		
<b>Recurring Cost</b>																		
Government and Contract Fielding Activities	-	-	0.000	-	-	0.000	-	-	0.350	-	-	0.907	-	-	0.000	-	-	0.907
<b>Subtotal: Recurring Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.350</b>	-	-	<b>0.907</b>	-	-	<b>0.000</b>	-	-	<b>0.907</b>
<b>Subtotal: Package Fielding Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.350</b>	-	-	<b>0.907</b>	-	-	<b>0.000</b>	-	-	<b>0.907</b>

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0015 / Aerosol Vapor Chemical Agent Detector (AVCAD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Logistics Cost</b>																		
Recurring Cost																		
Government Team Labor	-	-	0.000	-	-	0.000	-	-	0.675	-	-	2.289	-	-	0.000	-	-	2.289
OGA (Logistics & Combat Developer)	-	-	0.000	-	-	0.000	-	-	1.200	-	-	0.875	-	-	0.000	-	-	0.875
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	1.875	-	-	3.164	-	-	0.000	-	-	3.164
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	0.000	-	-	1.875	-	-	3.164	-	-	0.000	-	-	3.164
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	0.000	-	-	0.233	-	-	3.741	-	-	0.000	-	-	3.741
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.000	-	-	0.233	-	-	3.741	-	-	0.000	-	-	3.741
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	2.458	-	-	42.496	-	-	0.000	-	-	42.496

**Remarks:**

The Aerosol and Vapor Chemical Agent Detector (AVCAD) is a system to detect chemical agent aerosol and vapor, and consists of two system configurations, Man-Portable and Shipboard Fixed. The AVCAD will also prevent/mitigate health effects associated with low concentration exposures, and perform remote alarm warning and reporting. AVCAD will support chemical and biological defense missions, including monitoring, collective protection, base defense, decontamination, unmasking, and reconnaissance.

AVCAD Man-Portable is a single detector unit and fills critical gaps in current Joint Force chemical sensor capabilities, in the areas of liquid, solid and dusty aerosol Chemical Warfare Agent detection, and detection of specific advanced threats/Non-Traditional Agents. AVCAD Man-Portable will include systems to support the NBCRV SSU efforts for integration on the Stryker platform

AVCAD Shipboard Fixed consists of two detector units, two displays units, sampling lines and integration hardware that will be integrated onto ships. AVCAD Shipboard Fixed total/unit-cost does not include integration/installation costs, Navy provides funding to support the labor costs for integration/installation.

Notes: In FY24, government product development team labor cost were split between RDTE and Procurement funds, for a total of \$2.525M (\$1.850M RDTE and \$.675M PROC). Total government team labor cost in FY25 is \$2.789M (\$.500M RDTE and \$2.289M PROC). Labor increase to cover one additional FTE to support production/deployment activities.

Justification: FY25 funding procures 1,032 Man-Portable systems for the (Army, USMC, Navy, and SOCOM) and 15 Shipboard Fixed systems for the Navy, Type Classification and Materiel Release in support of Full Rate Production (FRP).

RDT&E Code B Item: 0604384BP/Proj UN5

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0015 / Aerosol Vapor Chemical Agent Detector (AVCAD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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AVCAD - EMD Contract (Jul 2018 to May 2023)  
 AVCAD - Milestone C (May 2023)  
 AVCAD - Low Rate Initial Production (Jun 2023 to Dec 2024)  
 AVCAD - Full Rate Production Decision (Mar 2025)  
 AVCAD - First Unit Equipped (Oct 2025)  
 AVCAD - Initial Operational Capability (Mar 2027)

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> SA0015 / Aerosol Vapor Chemical Agent Detector (AVCAD)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Shipboard Fixed		2025	Smiths Detection / Edgewood, MD	C / FPIF	ACC, APG, MD	Feb 2025 <sup>(1)</sup>	Jun 2025	15	140.000	Y		
Man-Portable <sup>(†)</sup>		2025	Smiths Detection / Edgewood, MD	C / FPIF	ACC, APG, MD	Feb 2025 <sup>(2)</sup>	Jun 2025	1,032	26.163	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The AVCAD production line can run both man-portable and shipboard fixed configurations concurrently. AVCAD plans to conduct Full Rate Production Decision (FRP) in FY25 and execute option on Smith Detection's existing contract to purchase FRP units.

**Footnotes:**

<sup>(1)</sup> Option

<sup>(2)</sup> Option



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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program																	<b>Date:</b> March 2024													
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1										<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness										<b>Item Number / Title [DODIC]:</b> SA0015 / Aerosol Vapor Chemical Agent Detector (AVCAD)										

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Man-Portable																																	
	1	2025	CBDP	1,032	0	1,032																											
			MC	85	0	85																											
Secondary Distribution			NAVY	200	0	200																											
			ARMY	733	0	733																											
			SOCOM	14	0	14																											

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0015 / Aerosol Vapor Chemical Agent Detector (AVCAD)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Smiths Detection - Edgewood, MD	60	140	420	-	4	4	8	4	4	4	8

**Remarks:**  
Distributions across Services may be revised upon finalization of fielding schedule.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0017 / Multiphase Chemical Agent Detector (MPCAD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity ( <i>Units in Each</i> )		-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )		0.000	4.014	13.561	0.000	0.000	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )		0.000	4.014	13.561	0.000	0.000	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )		-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )		<b>0.000</b>	<b>4.014</b>	<b>13.561</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares ( <i>\$ in Millions</i> )		-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
USAF - Hardware	-	-	0.000	-	-	0.000	303.846	13	3.950	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	3.950	-	-	0.000	-	-	0.000	-	-	0.000
Non Recurring Cost																		
USAF - Vapor Kits <sup>(f)</sup>	-	-	0.000	-	-	0.000	114.195	41	4.682	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	4.682	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware Cost</i>	-	-	0.000	-	-	0.000	-	-	8.632	-	-	0.000	-	-	0.000	-	-	0.000
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding	-	-	0.000	-	-	0.408	-	-	0.283	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.408	-	-	0.283	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Package Fielding Cost</i>	-	-	0.000	-	-	0.408	-	-	0.283	-	-	0.000	-	-	0.000	-	-	0.000
<b>Logistics Cost</b>																		
Recurring Cost																		
Logistics Planning and OGA Activities.	-	-	0.000	-	-	2.886	-	-	1.292	-	-	0.000	-	-	0.000	-	-	0.000

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0017 / Multiphase Chemical Agent Detector (MPCAD)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Initial Spares/Repairs/ Consumables	-	-	0.000	-	-	0.200	-	-	1.532	-	-	0.000	-	-	0.000	-	-	0.000
Government Team Labor	-	-	0.000	-	-	0.150	-	-	0.500	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	3.236	-	-	3.324	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	3.236	-	-	3.324	-	-	0.000	-	-	0.000	-	-	0.000
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	0.370	-	-	1.322	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.370	-	-	1.322	-	-	0.000	-	-	0.000	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	4.014	-	-	13.561	-	-	0.000	-	-	0.000	-	-	0.000

**Remarks:**

The Multi-Phase Chemical Agent Detector (MPCAD) is two-man portable system that will conduct near real-time, near-laboratory grade analysis of solid, liquid, and vapor samples collected by the operator in a presumptively contaminated area. The MPCAD results will support the Commander's tactical and operational decisions regarding maneuver, protection, decontamination, and treatment measures. The Army will employ MPCAD in Dismounted Reconnaissance and Site Assessment missions to substantiate presumptive detector results. The Air Force (USAF) will employ the MPCAD to support Post-Event Reconnaissance in support of Reconnaissance and Surveillance missions by monitoring the environment at airbases after a chemical release. The USAF will continuously monitor contaminated areas for chronic health effects levels through analysis of samples from collectors deployed at the contamination site and brought back to the analyzer for identification and quantification. This information will support commander decisions to determine Mission Oriented Protective Posture (MOPP) levels and eventual termination of cordon restrictions.

Justification: No FY25 funds requested; as of December 2023 the Milestone Decision Authority has returned MPCAD to Science & Technology for further development.

RDT&E Code B Item: 0604384BP/Proj UN5

**DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES**

MPCAD - Milestone B (Jul 2018)

MPCAD - Developmental Test and Evaluation (Jul 2018 to Sep 2024)

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> SA0017 / Multiphase Chemical Agent Detector (MPCAD)					
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ K)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
USAF - Vapor Kits		2024	TBD / N/A	C / FFP	ACC, APG, MD	Aug 2024 <sup>(3)</sup>	Feb 2025	41	114.195	Y		

**Remarks:**  
Delivery order to be placed under MPCAD production IDIQ contract.

**Footnotes:**  
<sup>(3)</sup> (Delivery Order)

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0058 / Proximate Chemical Agent Detector (PCAD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	1.609	0.000	1.609
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	1.609	0.000	1.609
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>1.609</b>	<b>0.000</b>	<b>1.609</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Software Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Non-Trace System software updates	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.120	-	-	0.000	-	-	0.120
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.120</i>	-	-	<i>0.000</i>	-	-	<i>0.120</i>
<b>Subtotal: Software Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.120</b>	-	-	<b>0.000</b>	-	-	<b>0.120</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Non-Trace Program fielding support	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.150	-	-	0.000	-	-	0.150
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.150</i>	-	-	<i>0.000</i>	-	-	<i>0.150</i>
<b>Subtotal: Package Fielding Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.150</b>	-	-	<b>0.000</b>	-	-	<b>0.150</b>
<b>Logistics Cost</b>																		
Recurring Cost																		
Non-Trace Internal Training Manual development/validation	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.479	-	-	0.000	-	-	0.479
Non-Trace OGA (Logistics and Systems Engineering)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.700	-	-	0.000	-	-	0.700

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0058 / Proximate Chemical Agent Detector (PCAD)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.179	-	-	0.000	-	-	1.179
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.179	-	-	0.000	-	-	1.179
<b>Support Cost</b>																		
Non-Trace Program Management Support	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.160	-	-	0.000	-	-	0.160
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.160	-	-	0.000	-	-	0.160
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.609	-	-	0.000	-	-	1.609

**Remarks:**

The Proximate Chemical Agent Detector (PCAD) is developing a Non-Trace and Trace capabilities. Non-Trace will provide the services with a handheld point and aim device that identifies visible liquid and solid chemical threats on surfaces at standoff (non-contact) distances. PCAD Non-Trace is intended to enhance mission effectiveness by quickly identifying a threat without requiring the warfighter/operator to come in contact with hazard. The need for a non-contact handheld chemical threat detector is a desire globally across various government agencies. The PCAD Trace will provide the services with a handheld device that will rapidly scan an area to locate, detect and identifies non-visible solid and liquid threats on surfaces at standoff (non-contact) distances. PCAD Trace is intended to enhance mission effectiveness by reducing sample analysis time. The need for a non-contact handheld chemical threat detector with the ability to scan an area on various surface types for possible threats is a desire to inform sampling and decontamination globally across various government agencies.

Justification: FY25 funding supports logistics activities, including demonstrations, training, and systems engineering in support of a low rate initial production decision in FY26.

RDT&E Code B Item: 0603884BP/Proj UN4; 0604384BP/Proj UN5

**DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES**

- PCAD - Trace Draft CDD (Jul 2027)
- PCAD - Milestone A - Trace capability (Nov 2027)
- PCAD - Milestone B - Trace capability (May 2029)
- PCAD - Milestone C - Trace capability (Nov 2031)
- PCAD - Low Rate Initial Production - Trace capability (Nov 2032)
- PCAD - Capability Development Document Validation - Non-Trace Validated CDD (Oct 2024)
- PCAD - Milestone B - Non-Trace capability (Nov 2024)
- PCAD - Milestone C - Non-Trace capability (Jul 2026)
- PCAD - Low Rate Initial Production - Non-Trace capability (Sep 2026)
- PCAD - Full Rate Production Decision - Non-Trace capability (Jul 2029)

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0025 / Analytical Laboratory System Modification (ALS MOD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		75.216	3.894	4.256	4.818	0.000	4.818
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		75.216	3.894	4.256	4.818	0.000	4.818
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>75.216</b>	<b>3.894</b>	<b>4.256</b>	<b>4.818</b>	<b>0.000</b>	<b>4.818</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Non Recurring Cost																		
Prior/Future combined efforts	-	-	75.216	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
ADM Retrofits	-	-	0.000	-	-	0.055	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Technology Refresh Packages <sup>(†)</sup>	-	-	0.000	-	-	0.000	139.238	21	2.924	141.955	22	3.123	-	-	0.000	141.955	22	3.123
<i>Subtotal: Non Recurring Cost</i>	-	-	75.216	-	-	0.055	-	-	2.924	-	-	3.123	-	-	0.000	-	-	3.123
<b>Subtotal: Hardware Cost</b>	-	-	<b>75.216</b>	-	-	<b>0.055</b>	-	-	<b>2.924</b>	-	-	<b>3.123</b>	-	-	<b>0.000</b>	-	-	<b>3.123</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding	-	-	0.000	-	-	0.000	-	-	0.877	-	-	1.182	-	-	0.000	-	-	1.182
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.877	-	-	1.182	-	-	0.000	-	-	1.182
<b>Subtotal: Package Fielding Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.877</b>	-	-	<b>1.182</b>	-	-	<b>0.000</b>	-	-	<b>1.182</b>
<b>Logistics Cost</b>																		
Non Recurring Cost																		
Information Managment Systems Tech Insertion	-	-	0.000	-	-	1.300	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	1.300	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0025 / Analytical Laboratory System Modification (ALS MOD)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	1.300	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Support Cost</b>																		
DEVCOM CBC Support	-	-	0.000	-	-	0.659	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Program Management	-	-	0.000	-	-	1.880	-	-	0.455	-	-	0.513	-	-	0.000	-	-	0.513
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	2.539	-	-	0.455	-	-	0.513	-	-	0.000	-	-	0.513
<b>Gross/Weapon System Cost</b>	-	-	75.216	-	-	3.894	-	-	4.256	-	-	4.818	-	-	0.000	-	-	4.818

**Remarks:**

The Analytical Laboratory System Modification (ALS MOD) program was established to address critical analytical suite equipment obsolescence (Analytical Suite) and system functionality for the National Guard Bureau's (NGB) Civil Support Teams. The ALS MOD will be fielded to the 57 NGB Weapons of Mass Destruction - Civil Support Teams (WMD CSTs). The ALS MOD capability will be modular, scalable, and adaptable to various environmental condition. Additionally, the ALS MOD supports the specific mission and Concept of Operations (CONOPS) of the gaining unit and can detect and/or identify Chemical Warfare Agents (CWAs), Toxic Industrial Chemicals (TICs), Toxic Industrial Materials (TIMs), Biological Warfare Agents (BWAs), and radiological material in environmental samples. ALS MOD program also supports the evaluation of advancements in CBRN commercial- and government-off-the-shelf (COTS/GOTS) equipment against the current technology baseline of equipment fielded to the WMD-CSTs. As such, the program will establish a time phased modernization plan to integrate and incorporate advancements in commercially available technology into the CST operating mission set ahead of critical obsolescence.

Justification: FY25 funds procure 22 technology refresh packages for toxin identifiers in support of NGB's priority to maintain Toxin Detection Capability for ALS users. FY25 will also fund associated fielding and support costs. Fielding cost increased in FY25 over FY24 to support technology package fielding for a total of 22 packages, as well as the additional manpower cost of incorporating the ECL Solution to be completed in FY24 (under the MOD SEN BA7 program line).

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> SA0025 / Analytical Laboratory System Modification (ALS MOD)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Technology Refresh Packages		2024	TBD / N/A	TBD	TBD	Apr 2024	May 2024	21	139.238			
Technology Refresh Packages		2025	TBD / N/A	TBD	TBD	Jun 2025	Oct 2025	22	141.955			

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JS0005 / Common Analytical Laboratory System (CALs)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				165.060	30.530	7.167	21.323	0.000	21.323
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				165.060	30.530	7.167	21.323	0.000	21.323
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>165.060</b>	<b>30.530</b>	<b>7.167</b>	<b>21.323</b>	<b>0.000</b>	<b>21.323</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	123.988	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware <sup>(†)</sup>	547.627	75	41.072	241.108	102	24.593	-	-	0.000	501.485	33	16.549	-	-	0.000	501.485	33	16.549
<i>Subtotal: Recurring Cost</i>	-	-	165.060	-	-	24.593	-	-	0.000	-	-	16.549	-	-	0.000	-	-	16.549
<i>Subtotal: Hardware Cost</i>	-	-	<b>165.060</b>	-	-	<b>24.593</b>	-	-	<b>0.000</b>	-	-	<b>16.549</b>	-	-	<b>0.000</b>	-	-	<b>16.549</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding	-	-	0.000	-	-	0.000	-	-	1.718	-	-	2.087	-	-	0.000	-	-	2.087
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	1.718	-	-	2.087	-	-	0.000	-	-	2.087
<i>Subtotal: Package Fielding Cost</i>	-	-	0.000	-	-	0.000	-	-	1.718	-	-	2.087	-	-	0.000	-	-	2.087
<b>Logistics Cost</b>																		
Recurring Cost																		
Training and Logistics	-	-	0.000	-	-	0.156	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Logistics and OGA Support	-	-	0.000	-	-	0.000	-	-	4.733	-	-	0.576	-	-	0.000	-	-	0.576
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.156	-	-	4.733	-	-	0.576	-	-	0.000	-	-	0.576
<i>Subtotal: Logistics Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.156</b>	-	-	<b>4.733</b>	-	-	<b>0.576</b>	-	-	<b>0.000</b>	-	-	<b>0.576</b>
<b>Support Cost</b>																		
Program Management	-	-	0.000	-	-	5.781	-	-	0.716	-	-	2.111	-	-	0.000	-	-	2.111

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JS0005 / Common Analytical Laboratory System (CALs)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	5.781	-	-	0.716	-	-	2.111	-	-	0.000	-	-	2.111
<b>Gross/Weapon System Cost</b>	-	-	165.060	-	-	30.530	-	-	7.167	-	-	21.323	-	-	0.000	-	-	21.323

**Remarks:**

The Common Analytical Laboratory System (CALs) Field Confirmatory Analytical Capability Suite (FC ACS) provides capability for analysis of chemical and biological materials in environmental samples in a man portable package. The FC ACS chemical subsystem components include a portable Gas Chromatograph / Mass Spectrometer (GC/MS), Fourier Transform-Infrared (FT-IR) spectrometer, and Raman spectrometer. The FC ACS biological subsystem components include the Electrochemiluminescence (ECL), and Polymerase Chain Reaction (PCR) analyzer. The CALs FC ACS will be fielded to the various units within the US Army, US Navy, US Air Force, and National Guard Bureau Civil Support Teams. Units employing FC ACS will be able to conduct sample analysis that provides a field confirmatory level analysis as defined in Tactics, Techniques, and Procedures. These analytical results will support decisions for protection, treatment, decontamination and planning in support of future operations.

Justification: FY25 funding supports the purchase of 33 units to support the full requirement of 115 chemical subsystems to the Army. FY25 production maintains continuity of the production line and avoids fielding delays due to supply chain shortages. FOC is schedule for 31 December 2026. FY25 cost increase is related to the additional program management required due to the increase of handhelds to be procured in FY25 to complete full chemical subsystems.

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program								<b>Date:</b> March 2024			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1				<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> JS0005 / Common Analytical Laboratory System (CALs)			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware <sup>(†)</sup>		2022	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Jul 2022	Aug 2022	75	547.627			
Hardware <sup>(†)</sup>		2023	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Feb 2023	Sep 2023	102	241.108	Y		
Hardware <sup>(†)</sup>		2025	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Jun 2025	Sep 2025	33	501.485	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

Unit cost varies per year due to the variations of subsystem component procurements. FY25 unit cost increases to include additional handheld subsystem components (Raman spectrometer and FT-IR spectrometer) required to complete full chemical subsystems.

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		Date: March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JS0005 / Common Analytical Laboratory System (CALs)

Cost Elements <small>(Units in Each)</small>						Fiscal Year 2022																Fiscal Year 2023												BALANCE			
OC	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022																Calendar Year 2023														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
Hardware																																					
	1	2022	CBDP	75	0	75																															0
	Secondary Distribution		ARMY : ANG	32	0	32																															0
	Secondary Distribution		NAVY	43	0	43																															0
	1	2023	CBDP	102	0	102																															94
	Secondary Distribution		ARMY	34	0	34																															34
	Secondary Distribution		AF	68	0	68																															60
	1	2025	CBDP	33	0	33																															33
	Secondary Distribution		ARMY : ANG	33	0	33																															33

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness
		<b>Item Number / Title [DODIC]:</b> JS0005 / Common Analytical Laboratory System (CALs)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												BALANCE																					
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025																																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P																				
Hardware																																																			
	1	2022	CBDP	75	75	0																								0																					
			<i>Secondary Distribution</i>	ARMY : 32	32	0																									0																				
			NAVY	43	43	0																									0																				
	1	2023	CBDP	102	8	94	7	7	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	3																						
			<i>Secondary Distribution</i>	ARMY	34	0	34	-	-	2	4	4	4	5	5	5	5	2	3											0																					
			AF	68	8	60	7	7	5	6	6	6	5	5	5	8	-											0																							
	1	2025	CBDP	33	0	33																					A -	-	-	10	23																				
			<i>Secondary Distribution</i>	ARMY : 33	0	33																					A -	-	-	10	23																				
<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td><td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td> </tr> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness
		<b>Item Number / Title [DODIC]:</b> JS0005 / Common Analytical Laboratory System (CALs)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026												Fiscal Year 2027												BALANCE					
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
Hardware																																			
	1	2022	CBDP	75	75	0																							0						
			Secondary Distribution	ARMY :	32	32	0																									0			
				ANG	43	43	0																									0			
			NAVY	43	43	0																									0				
	1	2023	CBDP	102	102	0																									0				
			Secondary Distribution	ARMY	34	34	0																									0			
				AF	68	68	0																									0			
	1	2025	CBDP	33	10	23	10	10	3																									0	
			Secondary Distribution	ARMY :	33	10	23	10	10	3																									0
				ANG							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	



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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JS0005 / Common Analytical Laboratory System (CALs)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Pine Bluff Arsenal - Pine Bluff, AR	3	7	10	3	1	3	4	8	1	3	4

**Remarks:**  
FY22 Deliveries are expected to continue through FY23 to complete quantity of 75. FY23 deliveries are expected to continue through FY24 to complete quantity of 102.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0043 / Next Generation Diagnostics System 2 Chemical Diagnostics (NGDS 2 CHEM DX)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				0.000	0.000	1.881	4.891	0.000	4.891
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				0.000	0.000	1.881	4.891	0.000	4.891
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>0.000</b>	<b>0.000</b>	<b>1.881</b>	<b>4.891</b>	<b>0.000</b>	<b>4.891</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
ChemDx System <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	1.800	2,334	4.201	-	-	0.000	1.800	2,334	4.201
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	4.201	-	-	0.000	-	-	4.201
Non Recurring Cost																		
Long Lead Items - Displays <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.275	3,107	0.854	-	-	0.000	-	-	0.000	-	-	0.000
Long Lead Items - Microprocessors <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.012	15,535	0.186	-	-	0.000	-	-	0.000	-	-	0.000
Long Lead Item - Production Test Equipment <sup>(†)</sup>	-	-	0.000	-	-	0.000	350.000	1	0.350	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	1.390	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware Cost</i>	-	-	0.000	-	-	0.000	-	-	1.390	-	-	4.201	-	-	0.000	-	-	4.201
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	0.000	-	-	0.491	-	-	0.690	-	-	0.000	-	-	0.690
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.000	-	-	0.491	-	-	0.690	-	-	0.000	-	-	0.690

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0043 / Next Generation Diagnostics System 2 Chemical Diagnostics (NGDS 2 CHEM DX)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	1.881	-	-	4.891	-	-	0.000	-	-	4.891

**Remarks:**

The Next Generation Diagnostic System 2 Chemical Diagnostics (NGDS 2 CHEMDX) program will provide a rapid, hand-held, point-of-care device, for the detection of acetyl cholinesterase (AChE) levels in blood samples, an indicator of possible nerve agent exposure in individuals. NGDS 2 ChemDx will be employed by Services at multiple echelons of healthcare. NGDS 2 CHEMDX test results are to be used to aid in the diagnosis and treatment of individuals suspected of having exposure to chemical nerve agents.

Justification: FY25 funding procures 2,334 ChemDx systems.

RDT&E Code B Item: 0604384BP/Proj UN5

**DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES**

- NGDS 2 CHEMDX - EMD (Dec 2021 to Mar 2025)
- NGDS 2 CHEMDX - Milestone C (Mar 2025)
- NGDS 2 CHEMDX - Initial Operational Capability (Mar 2026)
- NGDS 2 CHEMDX - Full Operational Capability (Sep 2028)
- NGDS 2 CHEMDX - Production and Deployment (Apr 2025 to Sep 2028)

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program										<b>Date:</b> March 2024			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1				<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness						<b>Item Number / Title [DODIC]:</b> SA0043 / Next Generation Diagnostics System 2 Chemical Diagnostics (NGDS 2 CHEM DX)			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ChemDx System		2025	TBD / N/A	C / FFP	ACC, APG, MD	Apr 2025 <sup>(4)</sup>	Mar 2026	2,334	1.800	N	Dec 2024	Jan 2025
Long Lead Items - Displays		2024	TBD / N/A	C / FFP	ACC, APG, MD	Mar 2024	Mar 2025	3,107	0.275	N	Sep 2023	Sep 2023
Long Lead Items - Microprocessors		2024	TBD / N/A	C / FFP	ACC, APG, MD	Mar 2024	Mar 2025	15,535	0.012	N	Sep 2023	Sep 2023
Long Lead Item - Production Test Equipment		2024	TBD / N/A	C / FFP	ACC, APG, MD	Mar 2024	Mar 2025	1	350.000	N	Sep 2023	Sep 2023

**Footnotes:**  
<sup>(4)</sup> (Delivery Order)

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JF0108 / Joint Handheld Bio-agent Identifier (JHBI)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		6.628	2.524	0.500	0.480	0.000	0.480
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		6.628	2.524	0.500	0.480	0.000	0.480
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>6.628</b>	<b>2.524</b>	<b>0.500</b>	<b>0.480</b>	<b>0.000</b>	<b>0.480</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	4.096	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Identifier (USAF) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	24.400	15	0.366	-	-	0.000	24.400	15	0.366
Identifier (Joint Service)	17.831	142	2.532	17.797	128	2.278	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Biowarfare Assays <sup>(††)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	0.320	300	0.096	-	-	0.000	0.320	300	0.096
<i>Subtotal: Recurring Cost</i>	-	-	6.628	-	-	2.278	-	-	0.000	-	-	0.462	-	-	0.000	-	-	0.462
<b>Subtotal: Hardware Cost</b>	-	-	<b>6.628</b>	-	-	<b>2.278</b>	-	-	<b>0.000</b>	-	-	<b>0.462</b>	-	-	<b>0.000</b>	-	-	<b>0.462</b>
<b>Logistics Cost</b>																		
Recurring Cost																		
Government/SE Team Labor	-	-	0.000	-	-	0.000	-	-	0.450	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.450	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Logistics Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.450</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	0.246	-	-	0.050	-	-	0.018	-	-	0.000	-	-	0.018
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.246	-	-	0.050	-	-	0.018	-	-	0.000	-	-	0.018
<b>Gross/Weapon System Cost</b>	-	-	<b>6.628</b>	-	-	<b>2.524</b>	-	-	<b>0.500</b>	-	-	<b>0.480</b>	-	-	<b>0.000</b>	-	-	<b>0.480</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JF0108 / Joint Handheld Bio-agent Identifier (JHBI)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Remarks:</b> The Joint Handheld Bio-Agent Identifier (JHBI) is a man-portable polymerase chain reaction (PCR)-based bio-identification system that contains an integrated sample prep. JHBI fulfills the biological identification requirement for Joint Biological Tactical Detection System (JBTD), a Joint Service Acquisition Category (ACAT) II program. Additionally, JHBI will be procured and fielded for Chemical Biological Radiological and Nuclear Dismounted Reconnaissance System (CBRN DRS) System Modernization Packages (SMPs). Both the CBRN DRS and JBTD have Key Performance Parameters (KPPs) requiring tactical biological warfare agent identification techniques, which JHBI can supply without disruption.		
Notes: Unit price increase in FY25 compared to prior fiscal years due to less buying power. Economic order pricing could not be achieved for fewer quantities.		
Justification: FY25 funding procures 15 Identifiers and 300 Biowarfare assays to support CBRN DRS SMP. The Identifiers and Biowarfare assays will be in support of the US Air Force (USAF), who have a requirement for Bio-identification in their CBRN DRS SMP. USAF needs to be able to identify the presence of nefarious agents at extremely low concentrations, in order to protect the Force and inform medical countermeasures.		
(t) indicates the presence of a P-5a		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> JF0108 / Joint Handheld Bio-agent Identifier (JHBI)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Identifier (USAF)		2025	Biomeme / Philadelphia, PA	C / FFP	GSA, Boston, MA	Apr 2025 <sup>(5)</sup>	Dec 2025	15	24.400			
Biowarfare Assays		2025	Biomeme / Philadelphia, PA	PO	GSA, Boston, MA	Apr 2025 <sup>(6)</sup>	Dec 2025	300	0.320			

**Remarks:**  
Biomeme provides its commercial Identifier device to the DoD, but it also has many other commercial customers. Low quantities during FY25 will not force the organization to close its production line.

**Footnotes:**  
<sup>(5)</sup> (Delivery Order)  
<sup>(6)</sup> (Delivery Order)

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> MX0001 / Joint Biological Tactical Detection System (JBTDs)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		16.733	0.000	7.025	9.872	0.000	9.872
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		16.733	0.000	7.025	9.872	0.000	9.872
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>16.733</b>	<b>0.000</b>	<b>7.025</b>	<b>9.872</b>	<b>0.000</b>	<b>9.872</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Non Recurring Cost																		
Prior/Future combined efforts	-	-	16.733	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Production Support	-	-	0.000	-	-	0.000	-	-	1.652	-	-	1.689	-	-	0.000	-	-	1.689
OGA (P&D Assessment Support)	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.060	-	-	0.000	-	-	1.060
<i>Subtotal: Non Recurring Cost</i>	-	-	16.733	-	-	0.000	-	-	1.652	-	-	2.749	-	-	0.000	-	-	2.749
<b>Subtotal: Hardware Cost</b>	-	-	<b>16.733</b>	-	-	<b>0.000</b>	-	-	<b>1.652</b>	-	-	<b>2.749</b>	-	-	<b>0.000</b>	-	-	<b>2.749</b>
<b>Logistics Cost</b>																		
Recurring Cost																		
OGA (Logistics and Systems Engineering)	-	-	0.000	-	-	0.000	-	-	1.200	-	-	2.900	-	-	0.000	-	-	2.900
Government Team Labor	-	-	0.000	-	-	0.000	-	-	2.085	-	-	3.260	-	-	0.000	-	-	3.260
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	3.285	-	-	6.160	-	-	0.000	-	-	6.160
<b>Subtotal: Logistics Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>3.285</b>	-	-	<b>6.160</b>	-	-	<b>0.000</b>	-	-	<b>6.160</b>
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	0.000	-	-	2.088	-	-	0.963	-	-	0.000	-	-	0.963
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.000	-	-	2.088	-	-	0.963	-	-	0.000	-	-	0.963



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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> MX0001 / Joint Biological Tactical Detection System (JBTDS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	16.733	-	-	0.000	-	-	7.025	-	-	9.872	-	-	0.000	-	-	9.872

**Remarks:**

The Joint Biological Tactical Detection System (JBTDS) is the first tactical lightweight, low-cost biological surveillance system to detect, collect, and identify Biological Warfare Agent (BWA) aerosols. JBTDS components are man-portable, battery-operable and easy to employ by any military user. JBTDS provides notification of a hazard and enhances battle space awareness to protect and preserve the forces and is capable of archiving a sample for follow up analysis. The JBTDS provides operational forces with the ability to safely operate, survive, and sustain operations in a Chemical Biological agent threat environment. When networked, JBTDS augments existing biological detection systems providing a theater-wide array capable of biological detection, identification and warning to support time sensitive force protection decisions. The JBTDS provides surface sampling capability with the JBTDS Identifier to support sensitive site exploitation missions.

Notes: JBTDS Production and Deployment testing begins in FY25. Test and Evaluation costs increase accordingly which increases costs between FY24 and FY25. There will also be additional government labor and OGA support from FY24 to FY25 due to the additional workload with the JBTDS testing.

Justification: FY25 funding supports Low Rate Initial Production (LRIP) activities including program support, the maintenance assessment, fielding preparation, program management, and other activities leading to a FY26 Full Rate Production (FRP) decision. This also supports refurbishment of LRIP articles for fielding. Funding supports path to reach Authorized Procurement Objective (APO) in FY30.

RDT&E Code B Item: 0604384BP/Proj UN5

**DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES**

- JBTDS - Milestone C (Aug 2023)
- JBTDS - Low Rate Initial Production - LRIP Contract Award (Aug 2023)
- JBTDS - Operational Test and Evaluation - MOT&E (Jul 2025 to Aug 2025)
- JBTDS - Full Rate Production Decision (Jul 2026)
- JBTDS - FRP Award (Aug 2026)
- JBTDS - Initial Operational Capability (Sep 2029)
- JBTDS - Authorized Procurement Objective (Sep 2030)

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0003 / Enhanced Maritime Biological Detection (EMBD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				49.920	21.472	21.899	21.203	0.000	21.203
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				49.920	21.472	21.899	21.203	0.000	21.203
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>49.920</b>	<b>21.472</b>	<b>21.899</b>	<b>21.203</b>	<b>0.000</b>	<b>21.203</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	38.127	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
FRP Hardware Production <sup>(†)</sup>	348.385	26	9.058	355.346	26	9.239	370.538	26	9.634	354.538	26	9.218	-	-	0.000	354.538	26	9.218
Production Contractor Engineering & Management	-	-	0.000	-	-	4.507	-	-	4.507	-	-	4.300	-	-	0.000	-	-	4.300
<i>Subtotal: Recurring Cost</i>	-	-	<i>47.185</i>	-	-	<i>13.746</i>	-	-	<i>14.141</i>	-	-	<i>13.518</i>	-	-	<i>0.000</i>	-	-	<i>13.518</i>
<b>Subtotal: Hardware Cost</b>	-	-	<b>47.185</b>	-	-	<b>13.746</b>	-	-	<b>14.141</b>	-	-	<b>13.518</b>	-	-	<b>0.000</b>	-	-	<b>13.518</b>
<b>Software Cost</b>																		
Recurring Cost																		
Software Support	-	-	0.000	-	-	0.627	-	-	0.645	-	-	0.660	-	-	0.000	-	-	0.660
Configuration Management	-	-	0.000	-	-	0.300	-	-	0.300	-	-	0.300	-	-	0.000	-	-	0.300
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.927</i>	-	-	<i>0.945</i>	-	-	<i>0.960</i>	-	-	<i>0.000</i>	-	-	<i>0.960</i>
<b>Subtotal: Software Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.927</b>	-	-	<b>0.945</b>	-	-	<b>0.960</b>	-	-	<b>0.000</b>	-	-	<b>0.960</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Initial Fielding Packages <sup>(†)</sup>	105.192	26	2.735	107.269	26	2.789	112.538	26	2.926	117.038	26	3.043	-	-	0.000	117.038	26	3.043

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>													<b>Date:</b> March 2024					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1						<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness						<b>Item Number / Title [DODIC]:</b> SA0003 / Enhanced Maritime Biological Detection (EMBD)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	2.735	-	-	2.789	-	-	2.926	-	-	3.043	-	-	0.000	-	-	3.043
<i>Subtotal: Package Fielding Cost</i>	-	-	2.735	-	-	2.789	-	-	2.926	-	-	3.043	-	-	0.000	-	-	3.043
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
Logistics Support	-	-	0.000	-	-	1.400	-	-	1.250	-	-	1.100	-	-	0.000	-	-	1.100
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	1.400	-	-	1.250	-	-	1.100	-	-	0.000	-	-	1.100
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	1.400	-	-	1.250	-	-	1.100	-	-	0.000	-	-	1.100
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	2.110	-	-	2.122	-	-	2.067	-	-	0.000	-	-	2.067
Government Team Labor	-	-	0.000	-	-	0.500	-	-	0.515	-	-	0.515	-	-	0.000	-	-	0.515
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	2.610	-	-	2.637	-	-	2.582	-	-	0.000	-	-	2.582
<b>Gross/Weapon System Cost</b>	-	-	49.920	-	-	21.472	-	-	21.899	-	-	21.203	-	-	0.000	-	-	21.203

**Remarks:**

The Enhanced Maritime Biological Detection (EMBD) is a fully-automated system that rapidly detects, collects, and identifies airborne Biological Warfare Agents (BWA) that pose a threat to the US Navy (USN). EMBD provides a state of the art hardware and software replacement for the Joint Biological Point Detection System (JBPDS) currently deployed throughout the USN thereby increasing probability of detection, reducing false alarm rate, reducing Mean Time Between Operational Failure (MTBOF) and increasing reliability, availability and maintainability (RAM). EMBD can be networked into the USN's Common Operating Environment (COE) to provide situational awareness and decision support to commanders at the speed of relevance.

Notes: FY24 purchased 34 External Controller Subsystems (ECSs) and those costs were captured as part of the FRP Hardware Production and Production Contractor Engineering & Management costs. FY25 will not be procuring these ECSs and as such, FY25 hardware costs in these two categories have decreased from FY24 to FY25.

Justification: FY25 funding procures 26 full rate production (FRP) systems for USN fielding schedule deployed to 16 Guided Missile destroyers (DDG), 4 littoral guided ships (LCS), 3 landing platform docks (LPD), 1 landing ship dock (LSD), 1 landing helicopter dock (LHD) and 1 landing helicopter assault (LHA). Fielding schedule is coordinated through Naval Surface Warfare Center Indian Head Division (NSWC IHD) with FY25 quantities moving the program closer to Full Operational Capability (FOC).

(t) indicates the presence of a P-5a

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**Exhibit P-5a, Procurement History and Planning: PB 2025 Chemical and Biological Defense Program** **Date:** March 2024

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0003 / Enhanced Maritime Biological Detection (EMBD)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
FRP Hardware Production <sup>(†)</sup>		2022	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	May 2022 <sup>(7)</sup>	May 2023	26	348.385	Y		
FRP Hardware Production <sup>(†)</sup>		2023	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	Apr 2023 <sup>(8)</sup>	Jan 2024	26	355.346	Y		
FRP Hardware Production <sup>(†)</sup>		2024	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	Dec 2023 <sup>(9)</sup>	Sep 2024	26	370.538	Y		
FRP Hardware Production <sup>(†)</sup>		2025	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	Dec 2024 <sup>(10)</sup>	Sep 2025	26	354.538	Y		
Initial Fielding Packages		2022	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	May 2022 <sup>(11)</sup>	May 2023	26	105.192	Y		
Initial Fielding Packages		2023	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	Apr 2023 <sup>(12)</sup>	Jan 2024	26	107.269	Y		
Initial Fielding Packages		2024	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	Dec 2023 <sup>(13)</sup>	Sep 2024	26	112.538	Y		
Initial Fielding Packages		2025	Chemring Detection Systems, Inc. / Charlotte, NC	SS / FFP	ACC, APG, MD	Dec 2024 <sup>(14)</sup>	Sep 2025	26	117.038	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

- <sup>(7)</sup> Option
- <sup>(8)</sup> Option
- <sup>(9)</sup> Option
- <sup>(10)</sup> Option
- <sup>(11)</sup> Option
- <sup>(12)</sup> Option
- <sup>(13)</sup> Option
- <sup>(14)</sup> Option

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program														<b>Date:</b> March 2024													
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1							<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness														<b>Item Number / Title [DODIC]:</b> SA0003 / Enhanced Maritime Biological Detection (EMBD)						

Cost Elements (Units in Each)						Fiscal Year 2022																Fiscal Year 2023																B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022																Calendar Year 2023																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
FRP Hardware Production																																							
	1	2022	CBDP	26	0	26									A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	6			
Secondary Distribution			NAVY	26	0	26									A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	6				
	1	2023	CBDP	26	0	26																						A	-	-	-	-	-	-	-	-	26		
Secondary Distribution			NAVY	26	0	26																					A	-	-	-	-	-	-	-	-	26			
	1	2024	CBDP	26	0	26																														26			
Secondary Distribution			NAVY	26	0	26																														26			
	1	2025	CBDP	26	0	26																														26			
Secondary Distribution			NAVY	26	0	26																														26			

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program															<b>Date:</b> March 2024									
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1										<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness										<b>Item Number / Title [DODIC]:</b> SA0003 / Enhanced Maritime Biological Detection (EMBD)				

Cost Elements (Units in Each)						Fiscal Year 2024													Fiscal Year 2025													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
FRP Hardware Production																																	
	1	2022	CBDP	26	20	6	4	2																					0				
Secondary Distribution			NAVY	26	20	6	4	2																					0				
	1	2023	CBDP	26	0	26	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2		0				
Secondary Distribution			NAVY	26	0	26	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2		0				
	1	2024	CBDP	26	0	26			A -	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	2		0					
Secondary Distribution			NAVY	26	0	26			A -	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	2		0					
	1	2025	CBDP	26	0	26														A -	-	-	-	-	-	-	4	22					
Secondary Distribution			NAVY	26	0	26														A -	-	-	-	-	-	-	4	22					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness
		<b>Item Number / Title [DODIC]:</b> SA0003 / Enhanced Maritime Biological Detection (EMBD)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026												Fiscal Year 2027												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
FRP Hardware Production																															
	1	2022	CBDP	26	26	0																							0		
Secondary Distribution			NAVY	26	26	0																							0		
	1	2023	CBDP	26	26	0																							0		
Secondary Distribution			NAVY	26	26	0																							0		
	1	2024	CBDP	26	26	0																							0		
Secondary Distribution			NAVY	26	26	0																							0		
	1	2025	CBDP	26	4	22	4	4	4	4	4	2																	0		
Secondary Distribution			NAVY	26	4	22	4	4	4	4	2																		0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0003 / Enhanced Maritime Biological Detection (EMBD)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Chemring Detection Systems, Inc. - Charlotte, NC	2	4	4	-	2	9	11	-	2	9	11

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).



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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0042 / Joint Chemical Agent Detector Solid Liquid Adaptors (JCAD SLA)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		21.390	18.135	8.928	1.613	0.000	1.613
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		21.390	18.135	8.928	1.613	0.000	1.613
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>21.390</b>	<b>18.135</b>	<b>8.928</b>	<b>1.613</b>	<b>0.000</b>	<b>1.613</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	12.951	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware Procurement <sup>(†)</sup>	6.467	1,305	8.439	6.467	1,543	9.978	7.626	663	5.056	-	-	0.000	-	-	0.000	-	-	0.000
Consumables and Spares	-	-	0.000	-	-	0.166	-	-	0.425	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	21.390	-	-	10.144	-	-	5.481	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware Cost</i>	-	-	21.390	-	-	10.144	-	-	5.481	-	-	0.000	-	-	0.000	-	-	0.000
<b>Software Cost</b>																		
Recurring Cost																		
Software Support	-	-	0.000	-	-	0.000	-	-	0.384	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.384	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Software Cost</i>	-	-	0.000	-	-	0.000	-	-	0.384	-	-	0.000	-	-	0.000	-	-	0.000
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Training and System Fielding Support	-	-	0.000	-	-	0.588	-	-	0.545	-	-	1.100	-	-	0.000	-	-	1.100
Additional Production Order	-	-	0.000	-	-	2.528	-	-	0.715	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	3.116	-	-	1.260	-	-	1.100	-	-	0.000	-	-	1.100

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>												<b>Date:</b> March 2024					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1						<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness						<b>Item Number / Title [DODIC]:</b> SA0042 / Joint Chemical Agent Detector Solid Liquid Adaptors (JCAD SLA)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A												<b>MDAP/MAIS Code:</b>					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Package Fielding Cost</i>	-	-	0.000	-	-	3.116	-	-	1.260	-	-	1.100	-	-	0.000	-	-	1.100
Logistics Cost																		
Recurring Cost																		
Logistics Planning and Support	-	-	0.000	-	-	0.406	-	-	0.653	-	-	0.263	-	-	0.000	-	-	0.263
Government Product Team Labor	-	-	0.000	-	-	1.192	-	-	0.000	-	-	0.150	-	-	0.000	-	-	0.150
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	1.598	-	-	0.653	-	-	0.413	-	-	0.000	-	-	0.413
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	1.598	-	-	0.653	-	-	0.413	-	-	0.000	-	-	0.413
Support Cost																		
Program Management	-	-	0.000	-	-	3.277	-	-	1.150	-	-	0.100	-	-	0.000	-	-	0.100
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	3.277	-	-	1.150	-	-	0.100	-	-	0.000	-	-	0.100
<b>Gross/Weapon System Cost</b>	-	-	21.390	-	-	18.135	-	-	8.928	-	-	1.613	-	-	0.000	-	-	1.613

**Remarks:**  
 The Joint Chemical Agent Detector (JCAD) Solid-Liquid Adapter (SLA) is an Additional Authorized List (AAL) item to the M4A1 JCAD. The SLA interfaces with the fielded M4A1 JCAD to allow for solid and liquid sampling of Non-Traditional Agents (NTAs), Pharmaceutical-Based Agents (PBAs), and explosives off surfaces. JCAD SLA is also an explosive detector candidate for CBRN DRS. All four Services are currently fielding the SLA to their capability as an AAL item to the M4A1 JCAD.

Notes: Changes between the Current Year (CY) and Budget Year (BY) are due to the final production buy taking place in FY24 and FY25 funding provides fielding of the final JCAD SLAs.

Justification: FY25 funding provides program management, fielding of final JCAD SLAs, and transitions to sustainment.

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> SA0042 / Joint Chemical Agent Detector Solid Liquid Adaptors (JCAD SLA)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware Procurement		2022	Smiths Detection / Edgewood, MD	SS / FFP	ACC, APG, MD	Jul 2022 <sup>(15)</sup>	Aug 2023	1,305	6.467	Y		
Hardware Procurement		2023	Smiths Detection / Edgewood, MD	SS / FFP	ACC, APG, MD	Apr 2023 <sup>(16)</sup>	Apr 2024	1,543	6.467	Y		
Hardware Procurement		2024	Smiths Detection / Edgewood, MD	SS / FFP	ACC, APG, MD	Feb 2024 <sup>(17)</sup>	Nov 2024	663	7.626	Y		

**Footnotes:**

<sup>(15)</sup> (Delivery Order)

<sup>(16)</sup> (Delivery Order)

<sup>(17)</sup> (Delivery Order)

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> MC0101 / Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
Resource Summary			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			746.073	47.324	60.492	74.140	0.000	74.140
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			746.073	47.324	60.492	74.140	0.000	74.140
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>746.073</b>	<b>47.324</b>	<b>60.492</b>	<b>74.140</b>	<b>0.000</b>	<b>74.140</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	746.073	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
USMC EOD (Explosive Ordnance Disposal) Configuration	-	-	0.000	795.375	16	12.726	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
System Modernization Packages (SMPs)- USMC <sup>(†)</sup>	-	-	0.000	2,722.000	1	2.722	-	-	0.000	736.000	10	7.360	-	-	0.000	736.000	10	7.360
System Modernization Packages (SMPs) - USA <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	736.000	22	16.192	-	-	0.000	736.000	22	16.192
System Modernization Packages (SMPs) - NGB <sup>(†)</sup>	-	-	0.000	686.000	21	14.406	707.167	12	8.486	736.000	24	17.664	-	-	0.000	736.000	24	17.664
System Modernization Packages (SMPs) - USAF <sup>(†)</sup>	-	-	0.000	-	-	0.000	600.000	23	13.800	624.000	15	9.360	-	-	0.000	624.000	15	9.360
System Modernization Packages (SMPs) - USASOC <sup>(†)</sup>	-	-	0.000	-	-	0.000	1,005.000	27	27.135	1,045.250	4	4.181	-	-	0.000	1,045.250	4	4.181

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> MC0101 / Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Purchase Training Support/ILS Package/ GFE updates	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.418	-	-	0.000	-	-	0.418
Initial Spares	-	-	0.000	-	-	0.534	-	-	0.625	-	-	0.965	-	-	0.000	-	-	0.965
<i>Subtotal: Recurring Cost</i>	-	-	<i>746.073</i>	-	-	<i>30.388</i>	-	-	<i>50.046</i>	-	-	<i>56.140</i>	-	-	<i>0.000</i>	-	-	<i>56.140</i>
<b>Non Recurring Cost</b>																		
USMC CBIRF	-	-	0.000	3,135.000	1	3.135	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>3.135</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>746.073</i>	-	-	<i>33.523</i>	-	-	<i>50.046</i>	-	-	<i>56.140</i>	-	-	<i>0.000</i>	-	-	<i>56.140</i>
<b>Package Fielding Cost</b>																		
<b>Recurring Cost</b>																		
Engineering Support	-	-	0.000	-	-	1.817	-	-	1.250	-	-	2.288	-	-	0.000	-	-	2.288
Fielding Support	-	-	0.000	-	-	1.063	-	-	0.402	-	-	1.186	-	-	0.000	-	-	1.186
Fielding Support (MSCoE)	-	-	0.000	-	-	0.000	-	-	0.500	-	-	0.000	-	-	0.000	-	-	0.000
TACOM - Total Fielding Packages	-	-	0.000	-	-	0.260	-	-	0.375	-	-	0.386	-	-	0.000	-	-	0.386
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>3.140</i>	-	-	<i>2.527</i>	-	-	<i>3.860</i>	-	-	<i>0.000</i>	-	-	<i>3.860</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>0.000</i>	-	-	<i>3.140</i>	-	-	<i>2.527</i>	-	-	<i>3.860</i>	-	-	<i>0.000</i>	-	-	<i>3.860</i>
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
Contractor Logistic Support	-	-	0.000	-	-	1.758	-	-	1.452	-	-	2.094	-	-	0.000	-	-	2.094
Contractor Logistics Support (CACI)	-	-	0.000	-	-	0.000	-	-	0.402	-	-	0.000	-	-	0.000	-	-	0.000
Logistics/Sustainment Support	-	-	0.000	-	-	1.732	-	-	0.703	-	-	1.624	-	-	0.000	-	-	1.624
Acquisition Logistics Product Support (TACOM)	-	-	0.000	-	-	0.412	-	-	0.309	-	-	0.318	-	-	0.000	-	-	0.318
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>3.902</i>	-	-	<i>2.866</i>	-	-	<i>4.036</i>	-	-	<i>0.000</i>	-	-	<i>4.036</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>0.000</i>	-	-	<i>3.902</i>	-	-	<i>2.866</i>	-	-	<i>4.036</i>	-	-	<i>0.000</i>	-	-	<i>4.036</i>
<b>Support Cost</b>																		

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> MC0101 / Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Program Management Support	-	-	0.000	-	-	4.614	-	-	3.802	-	-	7.414	-	-	0.000	-	-	7.414
Government Team Labor	-	-	0.000	-	-	2.145	-	-	1.251	-	-	2.690	-	-	0.000	-	-	2.690
<i>Subtotal: Support Cost</i>	-	-	<b>0.000</b>	-	-	<b>6.759</b>	-	-	<b>5.053</b>	-	-	<b>10.104</b>	-	-	<b>0.000</b>	-	-	<b>10.104</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>746.073</b>	-	-	<b>47.324</b>	-	-	<b>60.492</b>	-	-	<b>74.140</b>	-	-	<b>0.000</b>	-	-	<b>74.140</b>

**Remarks:**

The Chemical, Biological, Radiological, Nuclear Dismounted Reconnaissance (CBRN DRS) system consists of commercial and government off-the-shelf equipment providing detection, identification, sample collection, decontamination, marking and hazard reporting of CBRN threats, as well as personnel protection from CBRN hazards. The system supports dismounted reconnaissance, surveillance and CBRN site-assessment missions to enable more detailed CBRN information reports of site locations which may be enclosed or confined, and are therefore inaccessible by traditional CBRN reconnaissance-mounted platforms. Explosive Ordnance Disposal (EOD) variants have been added for U.S. Marine Corps (USMC) and Army EOD units to provide CBRN protection and detection capabilities for use in render safe operations. System Modernization Packages provide enhanced time on target, battlespace awareness, and increased confidence in CBRN detection and identification to the Joint Service in support of their DRS mission and 2030 modernization objectives.

Notes: The CBRN DRS has 11 configurations. The Chemical Biological Incident Response Force (CBIRF) operational unit is the largest configuration, consisting of approximately 11,000 items of which 36 are major end items. This will support a five day mission for 200 Marines. Individual variants differ in cost based on the contents required by the Service for that individual variant. Inflation and supply chain issues with electronics/components and/materials have driven up costs for individual variants over prior years.

Justification: FY25 funds procure 75 System Modernization Packages (SMP) for NGB (24), USAF (15), USASOC (4), USMC (10) and USA (22) as well as fielding, engineering, program management, and logistics support.

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning: PB 2025 Chemical and Biological Defense Program</b>										<b>Date:</b> March 2024			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1				<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness						<b>Item Number / Title [DODIC]:</b> MC0101 / Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
System Modernization Packages (SMPs)- USMC <sup>(†)</sup>		2023	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Jun 2023	Mar 2024	1	2,722.000	Y	Jun 2023	Jun 2023
System Modernization Packages (SMPs)- USMC <sup>(†)</sup>		2025	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Dec 2024	Sep 2025	10	736.000	Y	Dec 2024	Dec 2024
System Modernization Packages (SMPs) - USA <sup>(†)</sup>		2025	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Nov 2024	Sep 2025	22	736.000	Y	Nov 2024	Nov 2024
System Modernization Packages (SMPs) - NGB <sup>(†)</sup>		2023	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Feb 2023	Apr 2024	21	686.000	Y	Nov 2022	Nov 2022
System Modernization Packages (SMPs) - NGB <sup>(†)</sup>		2024	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Nov 2023	Sep 2024	12	707.167	Y	Nov 2023	Nov 2023
System Modernization Packages (SMPs) - NGB <sup>(†)</sup>		2025	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Dec 2024	Sep 2025	24	736.000	Y	Nov 2024	Nov 2024
System Modernization Packages (SMPs) - USAF <sup>(†)</sup>		2024	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Nov 2023	Sep 2024	23	600.000	Y	Nov 2023	Nov 2023
System Modernization Packages (SMPs) - USAF <sup>(†)</sup>		2025	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Dec 2024	Sep 2025	15	624.000	Y	Nov 2024	Nov 2024
System Modernization Packages (SMPs) - USASOC		2024	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Nov 2023	Sep 2024	27	1,005.000	Y	Nov 2023	Nov 2023
System Modernization Packages (SMPs) - USASOC		2025	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Dec 2024	Sep 2025	4	1,045.250	Y	Nov 2024	Nov 2024

<sup>(†)</sup> indicates the presence of a P-21





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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness
		<b>Item Number / Title [DODIC]:</b> MC0101 / Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)

Cost Elements (Units in Each)						Fiscal Year 2025													Fiscal Year 2026													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
System Modernization Packages (SMPs)- USMC																																	
	1	2023	CBDP	1	1	0																							0				
Secondary Distribution			MC	1	1	0																							0				
	1	2025	CBDP	10	0	10				A -	-	-	-	-	-	-	-	4	4	2									0				
Secondary Distribution			MC	10	0	10				A -	-	-	-	-	-	-	-	4	4	2									0				
System Modernization Packages (SMPs) - USA																																	
	2	2025	CBDP	22	0	22				A -	-	-	-	-	-	-	-	4	4	4	4	4	2					0					
Secondary Distribution			ARMY	22	0	22				A -	-	-	-	-	-	-	-	4	4	4	4	4	2					0					
System Modernization Packages (SMPs) - NGB																																	
	3	2023	CBDP	21	21	0																							0				
Secondary Distribution			ARMY : ANG	21	21	0																							0				
	3	2024	CBDP	12	4	8	4	4																					0				
Secondary Distribution			ARMY : ANG	12	4	8	4	4																					0				
	3	2025	CBDP	24	0	24				A -	-	-	-	-	-	-	-	4	4	4	4	4	4					0					
Secondary Distribution			ARMY : ANG	24	0	24				A -	-	-	-	-	-	-	-	4	4	4	4	4	4					0					
System Modernization Packages (SMPs) - USAF																																	
	4	2024	CBDP	23	4	19	4	4	4	4	3																		0				
Secondary Distribution			AF	23	4	19	4	4	4	4	3																		0				
	4	2025	CBDP	15	0	15				A -	-	-	-	-	-	-	-	3	3	3	3	3						0					
Secondary Distribution			AF	15	0	15				A -	-	-	-	-	-	-	-	3	3	3	3	3						0					
										O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> MC0101 / Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Pine Bluff Arsenal - Pine Bluff, AR	1	4	5	-	1	10	11	-	1	9	10
2	Pine Bluff Arsenal - Pine Bluff, AR	1	4	5	-	1	10	11	-	1	9	10
3	Pine Bluff Arsenal - Pine Bluff, AR	1	4	5	-	1	10	11	-	1	9	10
4	Pine Bluff Arsenal - Pine Bluff, AR	1	4	5	-	1	10	11	-	1	9	10

**Remarks:**

PBA Lead time includes contract, ordering, and manufacturing.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0056 / Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				0.000	0.000	16.795	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				0.000	0.000	16.795	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>0.000</b>	<b>0.000</b>	<b>16.795</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
CS2.2 CB Sensors <sup>(†)</sup>	-	-	0.000	-	-	0.000	7,586.000	2	15.172	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>15.172</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware Cost</i>	-	-	<b><i>0.000</i></b>	-	-	<b><i>0.000</i></b>	-	-	<b><i>15.172</i></b>	-	-	<b><i>0.000</i></b>	-	-	<b><i>0.000</i></b>	-	-	<b><i>0.000</i></b>
Support Cost																		
Program Management Support	-	-	0.000	-	-	0.000	-	-	1.623	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	<b><i>0.000</i></b>	-	-	<b><i>0.000</i></b>	-	-	<b><i>1.623</i></b>	-	-	<b><i>0.000</i></b>	-	-	<b><i>0.000</i></b>	-	-	<b><i>0.000</i></b>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>16.795</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

**Remarks:**

The Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) provides maneuver formations the ability to conduct mounted Chemical Biological Radiological and Nuclear (CBRN) reconnaissance and surveillance. The NBCRV SSU will answer the commander's priority intelligence requirements and facilitate proactive risk-based decisions, to ensure freedom of action and maintain maneuver momentum in Large Scale Combat Operations. NBCRV SSU is an Acquisition Category (ACAT) II modification work order (MWO) effort to modernize the current Stryker NBCRV Sensor Suite to increase maintainability, reliability, maneuverability of the force, and standoff distance from the threat, via enhanced CBRN standoff capabilities and integrating onto robotics for manned unmanned teaming.

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0056 / Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>
<p>Notes: The NBCRV SSU has two different configurations. Capability Set 2.1 (CS2.1) will provide initial capability to the warfighter, Army will provide \$24.430M in FY25 BASE OPA for CS2.1 (Army Item M02241). Capability Set 2.2 (CS2.2) will meet all threshold requirements to provide full capability to the warfighter via FRP decision in FY27. CS2.2 hardware (Chemical/Biological (CB) Sensors) procured in FY24 will be integrated onto current Stryker platforms for testing to inform an FRP decision.</p> <p>Justification: No FY25 funds requested.</p> <p>RDT&amp;E Code B Item: 0604384BP/Proj UN5</p> <p>DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES</p> <p>NBCRV SSU - Capability Drop - CS2.1 - Design and Fabrication (Jan 2020 to Mar 2022)  NBCRV SSU - Developmental Test and Evaluation - CS2.1 - Component &amp; System Level Developmental Testing (Jul 2021 to Jun 2024)  NBCRV SSU - Operational Test and Evaluation - CS2.1 - Limited User Test (LUT) (Jul 2023 to Oct 2023)  NBCRV SSU - Capability Drop - CS2.2 - Design and Fabrication (Jul 2024 to Aug 2025)  NBCRV SSU - Developmental Test and Evaluation - CS2.2 - Component and System Level Developmental Testing (Sep 2025 to Jan 2027)  NBCRV SSU - Operational Test and Evaluation - CS2.2 - Initial Operational Test and Evaluation (IOT&amp;E) (Jul 2026 to Dec 2026)  NBCRV SSU - Full Rate Production Decision - CS2.2 - FRP/Materiel Release Decision (Jun 2027 to Dec 2027)  NBCRV SSU - Initial Operational Capability - CS2.2 - Initial Operational Capability (Jul 2033 to Aug 2033)</p> <p>(†) indicates the presence of a P-5a</p>		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program										<b>Date:</b> March 2024			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1				<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness						<b>Item Number / Title [DODIC]:</b> SA0056 / Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU)			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CS2.2 CB Sensors		2024	TBD / N/A	C / FFP	ACC, NJ	Dec 2023	Sep 2024	2	7,586.000	Y	Dec 2023	Oct 2022

**Remarks:**  
Quantity of two reflects full up systems; actual quantities of chemical biological sensor kits will be known following contract award.

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JS5230 / Modernization Chemical Biological Radiological Nuclear Information Systems (MOD CBRN IS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>				
Resource Summary			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			23.688	0.656	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			23.688	0.656	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>23.688</b>	<b>0.656</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	23.688	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
MOD CBRN-IS (Computers, Servers and Licensing)	-	-	0.000	-	-	0.075	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>23.688</i>	-	-	<i>0.075</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>23.688</i>	-	-	<i>0.075</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
System Fielding Support (TPF, NET)	-	-	0.000	-	-	0.581	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.581</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.581</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>23.688</b>	-	-	<b>0.656</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

**Remarks:**

The Modernization CBRN Information Systems (MOD CBRN IS) combines CBRN IS (Cloud), Joint Effects Model (JEM), the Joint Warning and Reporting Network (JWARN) and the Software Support Activity (SSA) 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

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JS5230 / Modernization Chemical Biological Radiological Nuclear Information Systems (MOD CBRN IS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<p>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.</p> <p>Notes: In FY24 MOD CBRN IS funding will be consolidated under CBRN Support to Command and Control (CSC2), Item SA0050, to gain program management efficiencies and to adequately sustain Joint Effects Model (JEM) and Joint Warning and Reporting Network (JWARN) capabilities until a CSC2 capability is available.</p> <p>Justification: No FY25 funds requested.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0050 / Chemical Biological Radiological Nuclear Support to Command and Control (CSC2)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				1.750	11.803	2.186	2.257	0.000	2.257
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				1.750	11.803	2.186	2.257	0.000	2.257
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>1.750</b>	<b>11.803</b>	<b>2.186</b>	<b>2.257</b>	<b>0.000</b>	<b>2.257</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	1.750	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Computers, Servers, & Type Classified Hardware	-	-	0.000	-	-	4.989	-	-	0.500	-	-	0.200	-	-	0.000	-	-	0.200
<i>Subtotal: Recurring Cost</i>	-	-	1.750	-	-	4.989	-	-	0.500	-	-	0.200	-	-	0.000	-	-	0.200
<i>Subtotal: Hardware Cost</i>	-	-	1.750	-	-	4.989	-	-	0.500	-	-	0.200	-	-	0.000	-	-	0.200
<b>Software Cost</b>																		
Recurring Cost																		
Software Licensing & Hosting	-	-	0.000	-	-	2.800	-	-	0.850	-	-	1.215	-	-	0.000	-	-	1.215
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	2.800	-	-	0.850	-	-	1.215	-	-	0.000	-	-	1.215
<i>Subtotal: Software Cost</i>	-	-	0.000	-	-	2.800	-	-	0.850	-	-	1.215	-	-	0.000	-	-	1.215
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Packaging & Fielding Support	-	-	0.000	-	-	0.866	-	-	0.000	-	-	0.695	-	-	0.000	-	-	0.695
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.866	-	-	0.000	-	-	0.695	-	-	0.000	-	-	0.695
<i>Subtotal: Package Fielding Cost</i>	-	-	0.000	-	-	0.866	-	-	0.000	-	-	0.695	-	-	0.000	-	-	0.695



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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0050 / Chemical Biological Radiological Nuclear Support to Command and Control (CSC2)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Logistics Cost																		
Recurring Cost																		
Logistics	-	-	0.000	-	-	1.700	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>1.700</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Logistics Cost</i>	-	-	<b>0.000</b>	-	-	<b>1.700</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
Support Cost																		
Infrastructure Management	-	-	0.000	-	-	1.448	-	-	0.836	-	-	0.147	-	-	0.000	-	-	0.147
<i>Subtotal: Support Cost</i>	-	-	<b>0.000</b>	-	-	<b>1.448</b>	-	-	<b>0.836</b>	-	-	<b>0.147</b>	-	-	<b>0.000</b>	-	-	<b>0.147</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>1.750</b>	-	-	<b>11.803</b>	-	-	<b>2.186</b>	-	-	<b>2.257</b>	-	-	<b>0.000</b>	-	-	<b>2.257</b>

**Remarks:**  
 The CBRN Support to Command and Control (CSC2) is the overarching System of Systems (SoS) software that provides for the interoperability and integration of CBRN and non-CBRN sensors to achieve needed situational awareness and understanding to accomplish CBRN integrated layered defense, interdependent with Service Computing Environments. CSC2 will establish Service and Combined Joint All Domain Command and Control (CJADC2) compatible CBRN Common Operating Environment (COE) architecture and deployment environments. Maintains the continuous engineering of the currently fielded CBRN information systems and synchronization for the sunset of these capabilities with the deployment of CSC2.

Justification: FY25 funding procures the required hardware for networking, computing, host platforms, and communication relevant to development, integration, engineering and delivery supporting Continuous Integration and Delivery (CI/CD) as part of agile software development.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0005 / Chemical Biological Radiological Nuclear Sensor Integration on Robotic Platforms (CSIRP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		5.711	2.099	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		5.711	2.099	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>5.711</b>	<b>2.099</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	5.711	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Hardware UAS Autonomy Kits	-	-	0.000	86.500	12	1.038	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	5.711	-	-	1.038	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware Cost</i>	-	-	5.711	-	-	1.038	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Engineering Support	-	-	0.000	-	-	0.507	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.507	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Package Fielding Cost</i>	-	-	0.000	-	-	0.507	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Logistics Cost</b>																		
Recurring Cost																		
Logistics Support	-	-	0.000	-	-	0.235	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.235	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	0.235	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Support Cost</b>																		
Program Management	-	-	0.000	-	-	0.319	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0005 / Chemical Biological Radiological Nuclear Sensor Integration on Robotic Platforms (CSIRP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.319	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	5.711	-	-	2.099	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

**Remarks:**

The Chemical Biological Radiological and Nuclear (CBRN) Sensor Integration on Robotics Platforms (CSIRP) is a prototyping and fielding effort that will focus on repackaging and integrating modular CBRN sensor solutions to enhance Unmanned Aircraft Systems (UAS) and Unmanned Ground Vehicles (UGV) Programs of Record (PORs). CSIRP will provide situational awareness across the echelons of command in order to enable freedom of maneuver and action on the battlefield. An integrated CSIRP capability will exploit advances in artificial intelligence, machine learning and autonomy, sensing and communication capabilities that enable timely and accurate detection, warning and reporting of CBRN hazards. CSIRP will reduce risk at tactical and operational echelons in mounted and dismounted configurations. CSIRP gives the Joint Force an opportunity to enhance capabilities and maintain operational advantage in a lethal and complex operating environment.

Justification: No FY25 funds requested.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JX0210 / Defense Biological Products Assurance Program (DBPAP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		36.568	2.736	2.736	2.736	0.000	2.736
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		36.568	2.736	2.736	2.736	0.000	2.736
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>36.568</b>	<b>2.736</b>	<b>2.736</b>	<b>2.736</b>	<b>0.000</b>	<b>2.736</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	36.568	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Consumables and Reagents, Repository Equipment	-	-	0.000	-	-	0.000	-	-	1.465	-	-	2.091	-	-	0.000	-	-	2.091
<i>Subtotal: Recurring Cost</i>	-	-	36.568	-	-	0.000	-	-	1.465	-	-	2.091	-	-	0.000	-	-	2.091
<i>Subtotal: Hardware Cost</i>	-	-	36.568	-	-	0.000	-	-	1.465	-	-	2.091	-	-	0.000	-	-	2.091
<b>Software Cost</b>																		
Non Recurring Cost																		
OSCAR Improvements	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.467	-	-	0.000	-	-	0.467
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.467	-	-	0.000	-	-	0.467
<i>Subtotal: Software Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.467	-	-	0.000	-	-	0.467
<b>Support Cost</b>																		
Support	-	-	0.000	-	-	2.736	-	-	1.271	-	-	0.178	-	-	0.000	-	-	0.178
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	2.736	-	-	1.271	-	-	0.178	-	-	0.000	-	-	0.178
<b>Gross/Weapon System Cost</b>	-	-	36.568	-	-	2.736	-	-	2.736	-	-	2.736	-	-	0.000	-	-	2.736

Remarks:

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> JX0210 / Defense Biological Products Assurance Program (DBPAP)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	
<p>The Defense Biological Product Assurance Program (DBPAP) serves as the principal resource of high quality, validated, and standardized biological detection assays and reagents that meet the requirements of the warfighter and joint biological defense systems. These reagents/assays, acquired through acquisition rigor, enable multiple programs, services, and agencies to meet the requirements of the warfighters and the joint biological defense community. The DBPAP employs analytical tools to verify assay performance and predict effective medical countermeasure solutions (critical to preparedness).</p> <p>Justification: In FY25 funds support repository management (i.e., production, storage, distribution and quality assurance validation) of assays, antibodies, select biological threat agent, and genomic reference materials by consolidating requirements across the DoD and government agencies.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0057 / Chemical and Biological Wearables (CB WEARABLES)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	10.000	10.100	0.000	10.100
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	10.000	10.100	0.000	10.100
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>10.000</b>	<b>10.100</b>	<b>0.000</b>	<b>10.100</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Devices <sup>(†)</sup>	-	-	0.000	-	-	0.000	1.114	4,400	4.900	1.114	4,400	4.900	-	-	0.000	1.114	4,400	4.900
Network & Decision Support Kits <sup>(†)</sup>	-	-	0.000	-	-	0.000	278.000	8	2.224	278.000	8	2.224	-	-	0.000	278.000	8	2.224
Server Stack	-	-	0.000	-	-	0.000	-	-	0.250	-	-	0.924	-	-	0.000	-	-	0.924
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>7.374</i>	-	-	<i>8.048</i>	-	-	<i>0.000</i>	-	-	<i>8.048</i>
<b>Subtotal: Hardware Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>7.374</b>	-	-	<b>8.048</b>	-	-	<b>0.000</b>	-	-	<b>8.048</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Training & Fielding Support	-	-	0.000	-	-	0.000	-	-	1.635	-	-	0.945	-	-	0.000	-	-	0.945
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>1.635</i>	-	-	<i>0.945</i>	-	-	<i>0.000</i>	-	-	<i>0.945</i>
<b>Subtotal: Package Fielding Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.635</b>	-	-	<b>0.945</b>	-	-	<b>0.000</b>	-	-	<b>0.945</b>
<b>Logistics Cost</b>																		
Recurring Cost																		
Performance Based Logistics	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.133	-	-	0.000	-	-	0.133
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.133</i>	-	-	<i>0.000</i>	-	-	<i>0.133</i>

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0057 / Chemical and Biological Wearables (CB WEARABLES)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.133	-	-	0.000	-	-	0.133
Support Cost																		
Program Office Support	-	-	0.000	-	-	0.000	-	-	0.991	-	-	0.974	-	-	0.000	-	-	0.974
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.000	-	-	0.991	-	-	0.974	-	-	0.000	-	-	0.974
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	10.000	-	-	10.100	-	-	0.000	-	-	10.100

**Remarks:**

The Chemical and Biological Wearables (CB WEARABLES) program procures and fields the DoD's first bio threat-agnostic early warning tool available to each individual warfighter, regardless of deployment location. The system uses wearable sensors to monitor warfighter physiological status. Machine learning and artificial intelligence algorithms developed and procured under the Physiological Monitoring Sensor Suite (PM2S) program analyze wearables data to detect and predict the onset of a biological threat outbreak. The system also includes additional physiological-based CBRN warning and reporting algorithms developed under PM2S. When integrated onto service-sponsored combat networks, these capabilities enable commanders to conduct force-wide monitoring to detect the presence or initial onset of CBRN threats and human physiological stressors before an operator's mission performance degrades, a communicable disease spreads, or an individual becomes a casualty.

Notes: CB Wearables includes investment to advance the overarching goals aligned with the 2022 National Biodefense Strategy and Implementation Plan (NBS).

Justification: FY25 funds the continued purchase and fielding of wearable devices, 8 network and decision support kits, backend server software, and fielding and support for 4,400 devices.

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> SA0057 / Chemical and Biological Wearables (CB WEARABLES)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Devices		2024	TBD / N/A	C / FFP	TBD	Jan 2024	May 2024	4,400	1.114			
Devices		2025	TBD / N/A	C / FFP	TBD	Jan 2025	May 2025	4,400	1.114			
Network & Decision Support Kits		2024	TBD / N/A	C / FFP	TBD	Jan 2024	Jun 2024	8	278.000			
Network & Decision Support Kits		2025	TBD / N/A	C / CPFF	ACC, NJ	Jan 2025 <sup>(18)</sup>	Jun 2025	8	278.000			

**Footnotes:**

<sup>(18)</sup> Option



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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0055 / Wearable All Hazard Remote Monitoring Program (WARP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	17.500	0.000	17.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	17.500	0.000	17.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>17.500</b>	<b>0.000</b>	<b>17.500</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
WARP Kits <sup>(1)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	6.696	2,300	15.400	-	-	0.000	6.696	2,300	15.400
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>15.400</i>	-	-	<i>0.000</i>	-	-	<i>15.400</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>15.400</i>	-	-	<i>0.000</i>	-	-	<i>15.400</i>
<b>Support Cost</b>																		
Technical Support/SME	-	-	0.000	-	-	0.000	-	-	0.000	-	-	2.100	-	-	0.000	-	-	2.100
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>2.100</i>	-	-	<i>0.000</i>	-	-	<i>2.100</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>17.500</b>	-	-	<b>0.000</b>	-	-	<b>17.500</b>

**Remarks:**

Wearable All Hazard Remote Monitoring Program (WARP) is a family of wearable and attachable sensors to collect, transmit, and integrate information about the CBRND operational environment, disposition of warfighters, and key mission equipment status to optimize actions on the objective, provide real-time tactical data for decision makers, and facilitate unit readiness post mission. WARP has gone through the classified special category (SPECAT) requirements validation via United States Special Operations Command (USSOCOM) and the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense (ASD(NCB)). Fielded WARP Kits will be accessed by ground-force command for operational decisions to enable more timely and accurate situational awareness resulting in increased force protection.

Justification: FY25 funds procure 2,300 remote physiological and CBRN environmental monitoring kits and technical support. FOC will be complete with 5,000 kits in FY28 to close a USSOCOM requirement.

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0055 / Wearable All Hazard Remote Monitoring Program (WARP)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B RDT&E Code B Item: 0604384BP/Proj UN5		<b>MDAP/MAIS Code:</b>
DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES  WARP - Procurement & Fielding (Dec 2024 to Sep 2028) WARP - Initial Operating Capability (IOC) (Dec 2027) WARP - Full Operating Capability (Sep 2028)  (t) indicates the presence of a P-5a		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness				<b>Item Number / Title [DODIC]:</b> SA0055 / Wearable All Hazard Remote Monitoring Program (WARP)					
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
WARP Kits <sup>(†)</sup>		2025	TBD / N/A	TBD	TBD	Nov 2024	Jul 2025	2,300	6.696	N		

<sup>(†)</sup> indicates the presence of a P-21

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program															<b>Date:</b> March 2024														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1										<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness										<b>Item Number / Title [DODIC]:</b> SA0055 / Wearable All Hazard Remote Monitoring Program (WARP)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2025															Fiscal Year 2026															BALANCE		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025															Calendar Year 2026															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
WARP Kits																																					
	1	2025	CBDP	2,300	0	2,300		A	-	-	-	-	-	-	-	-	150	150	200	200	200	200	200	200	200	200	200	200	200	200	200	0					
Secondary Distribution			SOCOM	2,300	0	2,300		A	-	-	-	-	-	-	-	-	150	150	200	200	200	200	200	200	200	200	200	200	200	200	0						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 7001SA1000 / Chemical Biological Situational Awareness	<b>Item Number / Title [DODIC]:</b> SA0055 / Wearable All Hazard Remote Monitoring Program (WARP)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - N/A	100	200	400	-	1	8	9	1	1	8	9

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.  
 "A" in the Delivery Schedule indicates the Contract Award Date.  
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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**Exhibit P-40, Budget Line Item Justification:** PB 2025 Chemical and Biological Defense Program **Date:** March 2024

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: CBDP	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3,252.728	173.354	231.826	211.001	0.000	211.001	264.743	259.057	295.957	314.439	Continuing	Continuing
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	3,252.728	173.354	231.826	211.001	0.000	211.001	264.743	259.057	295.957	314.439	Continuing	Continuing
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3,252.728</b>	<b>173.354</b>	<b>231.826</b>	<b>211.001</b>	<b>0.000</b>	<b>211.001</b>	<b>264.743</b>	<b>259.057</b>	<b>295.957</b>	<b>314.439</b>	<b>Continuing</b>	<b>Continuing</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The Protection & Hazard Mitigation (Protect) Portfolio enhances mission performance and provides effective protection against current and emerging threats by rapidly developing and fielding modernized protection capabilities. Focus is on advances in materials and systems engineering to enhance protective properties against a broader array of hazards, while reducing Countering Weapons of Mass Destruction (CWMD) operational challenges and logistical burdens. Approaches focus on modular and customizable solutions that are effective against a broad range of challenges in varied environments.

The Protection & Hazard Mitigation (Mitigate) Portfolio preserves combat power by developing and fielding systems that mitigate exposure to Chemical and Biological (CB) hazards and restores combat readiness of critical personnel and platforms. Developmental efforts address personnel decontamination, including handling mass casualties and human remains, along with materiel decontamination, which includes sensitive equipment and aircraft. Novel decontamination approaches focus on broad decontaminant applicability to CB hazards, while minimizing harm to individuals, equipment, and platforms.

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**Exhibit P-40, Budget Line Item Justification: PB 2025 Chemical and Biological Defense Program** **Date:** March 2024

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: CBDP **P-1 Line Item Number / Title:** 8001PH1000 / CB Protection & Hazard Mitigation

**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

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 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-5	JD0050 / Decontamination Family of Systems (DFoS)	P-5a	B		- / 64.864	- / 4.795	- / 6.062	- / 4.878	- / 0.000	- / 4.878
P-5	JD0070 / Joint Biological Agent Decontamination System (JBADS)		A		- / 60.042	- / 13.519	- / 1.512	- / 0.000	- / 0.000	- / 0.000
P-5	PHM007 / Service Equipment Decontamination System (SEDS)	P-5a, P-21	B		- / 0.000	- / 0.000	- / 0.000	- / 14.028	- / 0.000	- / 14.028
P-5	PHM025 / Forward Area Mobility Spray System (FAMS-S)	P-5a	B		- / 0.000	- / 4.333	- / 4.824	- / 4.724	- / 0.000	- / 4.724
P-5	PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)	P-5a, P-21	B		- / 30.845	- / 10.188	- / 49.455	- / 30.799	- / 0.000	- / 30.799
P-5	PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)	P-5a, P-21	B		- / 52.034	- / 23.407	- / 25.794	- / 26.195	- / 0.000	- / 26.195
P-5	PHM032 / Uniform Integrated Protective Ensemble Family of Systems Gloves (UIPE FOS GLOVES)	P-5a	B		- / 0.000	- / 0.000	- / 4.978	- / 6.215	- / 0.000	- / 6.215
P-5	PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)	P-5a, P-21	B		- / 4.456	- / 30.145	- / 55.100	- / 82.861	- / 0.000	- / 82.861
P-5	JM6677 / Advanced Anticonvulsant System (AAS)	P-5a, P-21	A		- / 5.809	- / 18.147	- / 24.101	- / 15.301	- / 0.000	- / 15.301
P-5	JX0005 / DoD Biological Vaccine Procurement (VACCINES)		A		- / 627.235	- / 10.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	JI0002 / Joint Service Aircrew Mask (JSAM)	P-5a	A		- / 287.784	- / 22.265	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	JI0003 / Joint Service General Purpose Mask (JSGPM)		A		- / 814.045	- / 3.875	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	MA0400 / Protective Clothing (JSLIST)		A		- / 1,182.944	- / 2.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	PHM036 / Modernization Protection Collective Protection (MODPROT CP)		A		- / 0.456	- / 1.385	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	JP1111 / Joint Expeditionary Collective Protection (JECP)	P-5a	A		- / 122.214	- / 29.295	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-5	PHM046 / Non Medical Personal Protective Equipment (NON MED PPE)	P-5a, P-21	A		- / 0.000	- / 0.000	- / 60.000	- / 26.000	- / 0.000	- / 26.000
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 3,252.728</b>	<b>- / 173.354</b>	<b>- / 231.826</b>	<b>- / 211.001</b>	<b>- / 0.000</b>	<b>- / 211.001</b>

\*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.

**Justification:**  
Operational forces across the continuum of global, contingency, special operations/low-intensity conflict, counternarcotics, and other high-risk missions have an immediate need to survive and sustain operations in a CB threat environment. Provides protective equipment and medical countermeasures that support protection prior to potential operations and mitigates the hazard if exposed.



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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JD0050 / Decontamination Family of Systems (DFoS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
<b>Resource Summary</b>		<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		64.864	4.795	6.062	4.878	0.000	4.878
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		64.864	4.795	6.062	4.878	0.000	4.878
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>64.864</b>	<b>4.795</b>	<b>6.062</b>	<b>4.878</b>	<b>0.000</b>	<b>4.878</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	64.864	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
DFoS CIDAS NERVE - Nerve Shelf-Life Testing	-	-	0.000	-	-	0.283	-	-	0.175	-	-	0.165	-	-	0.000	-	-	0.165
DFoS CIDAS NERVE - Engineering Support	-	-	0.000	-	-	0.442	-	-	0.297	-	-	0.375	-	-	0.000	-	-	0.375
DFoS CIDAS NERVE - Small Scale Applicator-Nerve (SSA-N) <sup>(†)</sup>	-	-	0.000	0.217	7,224	1.570	0.213	4,200	0.895	0.230	932	0.214	-	-	0.000	0.230	932	0.214
DFoS CIDAS NERVE - LSA Tactical Components <sup>(†)</sup>	-	-	0.000	0.816	1,000	0.816	0.325	1,562	0.507	0.500	1,000	0.500	-	-	0.000	0.500	1,000	0.500
DFoS CIDAS NERVE - Tactical & Large Scale Applicator <sup>(†)</sup>	-	-	0.000	0.740	1,000	0.740	0.500	1,562	0.781	0.623	945	0.589	-	-	0.000	0.623	945	0.589
DFoS CIDAS NERVE - Large Scale Kit-Nerve & Training Kits <sup>(†)</sup>	-	-	0.000	0.873	204	0.178	0.790	1,183	0.934	0.800	3,200	2.560	-	-	0.000	0.800	3,200	2.560

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>													<b>Date:</b> March 2024					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1						<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation						<b>Item Number / Title [DODIC]:</b> JD0050 / Decontamination Family of Systems (DFoS)						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B										<b>MDAP/MAIS Code:</b>								

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
DFoS CIDAS BLISTER - Shelf Life Testing	-	-	0.000	-	-	0.000	-	-	0.206	-	-	0.000	-	-	0.000	-	-	0.000
DFoS CIDAS BLISTER - LSA-B <sup>(†)</sup>	-	-	0.000	-	-	0.000	1.894	500	0.947	-	-	0.000	-	-	0.000	-	-	0.000
DFoS CIDAS BLISTER - SSA-B <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.294	2,000	0.588	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<b>64.864</b>	-	-	<b>4.029</b>	-	-	<b>5.330</b>	-	-	<b>4.403</b>	-	-	<b>0.000</b>	-	-	<b>4.403</b>
<b>Non Recurring Cost</b>																		
DFoS CIDAS NERVE - Engineering Change Proposals (ECPs)	-	-	0.000	-	-	0.108	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
DFoS CIDAS BLISTER - Engineering Support	-	-	0.000	-	-	0.000	-	-	0.237	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.108</b>	-	-	<b>0.237</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<i>Subtotal: Hardware Cost</i>	-	-	<b>64.864</b>	-	-	<b>4.137</b>	-	-	<b>5.567</b>	-	-	<b>4.403</b>	-	-	<b>0.000</b>	-	-	<b>4.403</b>
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
DFoS CIDAS NERVE - Logistics Support	-	-	0.000	-	-	0.257	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
DFoS CIDAS BLISTER - Blister CDRLs	-	-	0.000	-	-	0.000	-	-	0.050	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.257</b>	-	-	<b>0.050</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<i>Subtotal: Logistics Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.257</b>	-	-	<b>0.050</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Support Cost</b>																		
DFoS CIDAS NERVE - Program Management Support	-	-	0.000	-	-	0.401	-	-	0.284	-	-	0.475	-	-	0.000	-	-	0.475
DFoS CIDAS BLISTER - Program Management Support	-	-	0.000	-	-	0.000	-	-	0.161	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.401</b>	-	-	<b>0.445</b>	-	-	<b>0.475</b>	-	-	<b>0.000</b>	-	-	<b>0.475</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>64.864</b>	-	-	<b>4.795</b>	-	-	<b>6.062</b>	-	-	<b>4.878</b>	-	-	<b>0.000</b>	-	-	<b>4.878</b>

**Remarks:**

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JD0050 / Decontamination Family of Systems (DFoS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>
<p>The Decontamination Family of Systems Contamination Indicator Decontamination Assurance System (DFoS CIDAS) Nerve program will provide the Joint Forces with a new capability to increase decontamination efficiency and reduce the logistics burden of decontamination by indicating presence and location of traditional Nerve and non-traditional chemical agents on militarily relevant surfaces pre- and post-decontamination. When applied pre-decontamination, CIDAS Nerve will visually indicate where chemical agents are present and allow for equipment decontamination processing to concentrate on contaminated surfaces. CIDAS Nerve is applied post-decontamination for assurance and to reduce the logistics burden of currently fielded point detectors. Capability will consist of two applicator configurations (small scale and tactical large scale) and two indicator formulations (training and nerve).</p> <p>The DFoS CIDAS Blister provides the ability to visually indicate the presence and location of blister agent thereby reducing costs and logistics associated with contamination mitigation operations, especially the need for water while allowing for the rapid sorting of clean vs. contaminated vehicles and/or equipment. CIDAS Blister, when combined with other contamination mitigation technologies (Joint Service Equipment Wipe, General Purpose Decontaminant) can be utilized at the lowest echelons and play a critical role in pre-decontamination operations to indicate surface contamination and prioritize/segregate contaminated assets and during post-decontamination operations as visible verification of decontamination process and assure equipment is 'clean'. DFoS CIDAS Blister provides a new capability to the Services as the current Service capabilities only detects gross amounts of agent and CIDAS Blister Indicators can detect and visually localize trace amounts of blister agent.</p> <p>Notes: Unit costs for DFoS CIDAS Nerve Small Scale Applicators (SSAs) and Large Scale Kits (LSKs) are driven by Economic order quantity (EOQs).</p> <p>DFoS CIDAS Blister terminated in FY24. All programmatic documentation will be archived and the Joint Requirements Office will enter the Capability Development Document (for the CIDAS Blister KSA) in the Knowledge Management/Decision Support tool for archiving.</p> <p>Justification: FY25 funds will procure 932 DFoS CIDAS Nerve SSAs with confidence check cards (CCCs); 1,000 DFoS CIDAS Nerve Large Scale Applicators (LSAs) Tactical components and applicators, and 3,200 DFoS CIDAS Nerve Large Scale and Training Kits with CCCs in support of meeting SSA-Nerve Initial Operational Capability (IOC) in FY26 and Full Operational Capability (FOC) in FY29.</p> <p>RDT&amp;E Code B Item: 0604384BP/Proj MT5</p> <p><b>DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES</b></p> <p>DFoS CIDAS BLISTER - Knowledge Point (Apr 2023 to Jun 2023)  DFoS CIDAS BLISTER - System Verification Review (SVR)/Production Readiness Review (Jun 2023)  DFoS CIDAS BLISTER - Functional Configuration Audit (FCA) (Sep 2023)  DFoS CIDAS BLISTER - Operational Test and Evaluation (Dec 2023)  DFoS CIDAS BLISTER - Manufacturing Readiness Assessment (Dec 2023)  DFoS CIDAS BLISTER - Close Out Report (Jan 2024 to Mar 2024)</p> <p>(†) indicates the presence of a P-5a</p>		

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**Exhibit P-5a, Procurement History and Planning: PB 2025 Chemical and Biological Defense Program** **Date:** March 2024

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JD0050 / Decontamination Family of Systems (DFoS)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
DFoS CIDAS NERVE - Small Scale Applicator-Nerve (SSA-N)		2023	FLIR Systems Inc. / Pittsburgh, PA	C / FP	ACC-APG, Natick, MA	Nov 2022	May 2023	7,224	0.217	Y		
DFoS CIDAS NERVE - Small Scale Applicator-Nerve (SSA-N)		2024	FLIR Systems, Inc. / Pittsburgh, PA	C / FP	ACC-APG, Natick, MA	Jan 2024 <sup>(1)</sup>	May 2024	4,200	0.213	Y		
DFoS CIDAS NERVE - Small Scale Applicator-Nerve (SSA-N)		2025	FLIR Systems, Inc. / West Lafayette, IN	C / FP	ACC-APG, Natick, MA	Nov 2024 <sup>(2)</sup>	May 2025	932	0.230	Y		
DFoS CIDAS NERVE - LSA Tactical Components		2023	Tooele Army Depot / Tooele, UT	MIPR	Tooele Army Depot, Tooele, UT	Nov 2022	Apr 2023	1,000	0.816	Y		
DFoS CIDAS NERVE - LSA Tactical Components		2024	Tooele Army Depot / Tooele, UT	MIPR	Tooele Army Depot, Tooele, UT	Jan 2024	Apr 2024	1,562	0.325	Y		
DFoS CIDAS NERVE - LSA Tactical Components		2025	Tooele Army Depot / Tooele, UT	MIPR	Tooele Army Depot, Tooele, UT	Nov 2024	Jan 2025	1,000	0.500	Y		
DFoS CIDAS NERVE - Tactical & Large Scale Applicator		2023	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Nov 2022	Jun 2023	1,000	0.740	Y		
DFoS CIDAS NERVE - Tactical & Large Scale Applicator		2024	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Jan 2024	Jun 2024	1,562	0.500	Y		
DFoS CIDAS NERVE - Tactical & Large Scale Applicator		2025	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Nov 2024	Jan 2025	945	0.623	Y		
DFoS CIDAS NERVE - Large Scale Kit-Nerve & Training Kits		2023	FLIR Systems, Inc. / Pittsburgh, PA	C / FP	ACC-APG, Natick, MA	Sep 2023 <sup>(3)</sup>	Aug 2024	204	0.873	Y		
DFoS CIDAS NERVE - Large Scale Kit-Nerve & Training Kits		2024	FLIR Systems, Inc. / Pittsburgh, PA	C / FP	ACC-APG, Natick, MA	Jan 2024	May 2024	1,183	0.790	Y		
DFoS CIDAS NERVE - Large Scale Kit-Nerve & Training Kits		2025	FLIR Systems, Inc. / West Lafayette, IN	C / FP	ACC-APG, Natick, MA	Jan 2025	May 2025	3,200	0.800	Y		
DFoS CIDAS BLISTER - LSA-B		2024	FLIR Systems, Inc. / Pittsburgh, PA	C / FP	ACC-APG, Natick, MA	Aug 2024	Nov 2024	500	1.894	Y		
DFoS CIDAS BLISTER - SSA-B		2024	FLIR Systems, Inc. / Pittsburgh, PA	C / FP	ACC-APG, Natick, MA	Aug 2024	Nov 2024	2,000	0.294	Y		

**Footnotes:**

- <sup>(1)</sup> Option
- <sup>(2)</sup> Option
- <sup>(3)</sup> Option

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>													<b>Date:</b> March 2024								
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1						<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation						<b>Item Number / Title [DODIC]:</b> JD0070 / Joint Biological Agent Decontamination System (JBADS)									
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A									<b>MDAP/MAIS Code:</b>												
<b>Resource Summary</b>				<b>Prior Years</b>			<b>FY 2023</b>			<b>FY 2024</b>			<b>FY 2025 Base</b>			<b>FY 2025 OCO</b>			<b>FY 2025 Total</b>		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				60.042			13.519			1.512			0.000			0.000			0.000		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				60.042			13.519			1.512			0.000			0.000			0.000		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
<b>Total Obligation Authority (\$ in Millions)</b>				<b>60.042</b>			<b>13.519</b>			<b>1.512</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Thousands)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2023</b>			<b>FY 2024</b>			<b>FY 2025 Base</b>			<b>FY 2025 OCO</b>			<b>FY 2025 Total</b>					
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>			
Hardware Cost																					
Recurring Cost																					
Prior/Future combined efforts	-	-	60.042	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000			
Engineering Support	-	-	0.000	-	-	4.502	-	-	0.501	-	-	0.000	-	-	0.000	-	-	0.000			
<i>Subtotal: Recurring Cost</i>	-	-	<i>60.042</i>	-	-	<i>4.502</i>	-	-	<i>0.501</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>			
<i>Subtotal: Hardware Cost</i>	-	-	<i>60.042</i>	-	-	<i>4.502</i>	-	-	<i>0.501</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>			
Logistics Cost																					
Recurring Cost																					
Production Government/ Contractor Logistics Support	-	-	0.000	-	-	8.111	-	-	0.900	-	-	0.000	-	-	0.000	-	-	0.000			
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>8.111</i>	-	-	<i>0.900</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>			
<i>Subtotal: Logistics Cost</i>	-	-	<i>0.000</i>	-	-	<i>8.111</i>	-	-	<i>0.900</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>			
Support Cost																					
Program Management	-	-	0.000	-	-	0.906	-	-	0.111	-	-	0.000	-	-	0.000	-	-	0.000			
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.906</i>	-	-	<i>0.111</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>			
<b>Gross/Weapon System Cost</b>	-	-	<b>60.042</b>	-	-	<b>13.519</b>	-	-	<b>1.512</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>			
<b>Remarks:</b>																					

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JD0070 / Joint Biological Agent Decontamination System (JBADS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	
<p>The Joint Biological Agent Decontamination System (JBADS) provides the capability to conduct biological agent decontamination of the interior and exterior of aircraft. There is currently no capability to decontaminate both the inside and outside of aircraft. The JBADS focus is on the biological agent decontamination of the C-130 aircraft and future efforts may address chemical and biological decontamination of other airframes and vehicles. The JBADS capability set includes a decontamination delivery system using hot-humid air, shelter to encapsulate an airframe, an environmental control and monitoring system(s), and other ancillary components. It provides the capability to decontaminate biologically contaminated airframes to safe levels, allow more rapid return to service, and provides a key cornerstone to future decontamination capability.</p> <p>Justification: No FY25 funds requested; program has reached FOC and the last year of funding was FY 2024.</p>		

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM007 / Service Equipment Decontamination System (SEDS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	14.028	0.000	14.028
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	14.028	0.000	14.028
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>14.028</b>	<b>0.000</b>	<b>14.028</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Non Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
SOF CEDS Large <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	887.500	10	8.875	-	-	0.000	887.500	10	8.875
SOF CEDS Small <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	280.200	10	2.802	-	-	0.000	280.200	10	2.802
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>11.677</i>	-	-	<i>0.000</i>	-	-	<i>11.677</i>
<b>Subtotal: Hardware Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>11.677</b>	-	-	<b>0.000</b>	-	-	<b>11.677</b>
<b>Logistics Cost</b>																		
Non Recurring Cost																		
SOF CEDS Spares	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.553	-	-	0.000	-	-	0.553
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.553</i>	-	-	<i>0.000</i>	-	-	<i>0.553</i>
<b>Subtotal: Logistics Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.553</b>	-	-	<b>0.000</b>	-	-	<b>0.553</b>
<b>Support Cost</b>																		
SOF CEDS	-	-	0.000	-	-	0.000	-	-	0.000	-	-	1.481	-	-	0.000	-	-	1.481
SOF CEDS NET	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.317	-	-	0.000	-	-	0.317
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>1.798</i>	-	-	<i>0.000</i>	-	-	<i>1.798</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>14.028</b>	-	-	<b>0.000</b>	-	-	<b>14.028</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM007 / Service Equipment Decontamination System (SEDS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>
<p><b>Remarks:</b>                  The Service Equipment Decontamination System (SEDS) program consists of two efforts, Joint SEDS and Special Operations Forces (SOF) Critical Equipment Decontamination System (CEDS). The SOF CEDS effort consists of two variants: Small and Large. The SEDS program and the SOF CEDS effort utilize very similar configurations consisting of an inflatable shelter and an external vapor generation unit. The SOF CEDS Large effort consists of a Larger rigid shelter with an internal vapor generation unit and larger throughput. The SOF CEDS Small The program will reduce the number of warfighter personnel experiencing adverse health effects after decontamination operations by decreasing contaminants on equipment, individual combat equipment, and sensitive platform interiors. This capability is needed to sustain and reduce logistical burdens on the Joint and SOF programs, in order to increase tactical agility, sustain a resilient force posture and align with the National Defense Strategy (NDS). SEDS and CEDS will provide contamination mitigation capabilities for critical equipment that have been exposed to chemical and biological contamination and achieve efficacy levels that allow unprotected post-decontamination exposures for long periods with less than negligible severity effects.</p> <p>Justification: FY25 funding will procure 10 CEDS Small systems and 10 CEDS large systems.</p> <p>RDT&amp;E Code B Item: 0604384BP/Proj MT5; 0603884BP/Proj MT4</p> <p>DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES</p> <p>SEDS - Capability Development Document Validation - CEDS SOF (Sep 2019)                  SEDS - Milestone A - CEDS SOF (Jul 2021)                  SEDS - Preliminary Design Review - CEDS SOF (Oct 2022)                  SEDS - Developmental Test and Evaluation - CEDS SOF (Jan 2023 to Aug 2024)                  SEDS - Milestone B - CEDS SOF (Sep 2023)                  SEDS - Operational Test and Evaluation - CEDS SOF (Sep 2024 to Aug 2025)                  SEDS - Milestone C - CEDS SOF (Sep 2025)                  SEDS - Initial Operational Capability - CEDS SOF (Mar 2027)                  SEDS - Full Operational Capability - CEDS SOF (Sep 2028)</p> <p>(t) indicates the presence of a P-5a</p>		



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> PHM007 / Service Equipment Decontamination System (SEDS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SOF CEDS Large <sup>(†)</sup>		2025	HDT / Fredericksburg, VA	SS / FFP	TBD	Jul 2025	Jan 2026	10	887.500	Y		
SOF CEDS Small		2025	Integrated Solutions for Systems (IS4S) / Huntsville, AL	SS / FFP	TBD	Jul 2025	Jan 2026	10	280.200	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

Sole production contract desired due in order to reduce time needed to qualify another vendor's design and field quickly to SOCOM.

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program															<b>Date:</b> March 2024														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1										<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation										<b>Item Number / Title [DODIC]:</b> PHM007 / Service Equipment Decontamination System (SEDS)									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
SOF CEDS Large																																	
	1	2025	CBDP	10	0	10																								0			
Secondary Distribution			SOCOM	10	0	10																								0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
		<b>Item Number / Title [DODIC]:</b> PHM007 / Service Equipment Decontamination System (SEDS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	HDT - Fredericksburg, VA	1	15	20	-	9	6	15	-	1	1	2

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM025 / Forward Area Mobility Spray System (FAMS-S)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	4.333	4.824	4.724	0.000	4.724
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	4.333	4.824	4.724	0.000	4.724
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>4.333</b>	<b>4.824</b>	<b>4.724</b>	<b>0.000</b>	<b>4.724</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
FAMS-S Large <sup>(†)</sup>	-	-	0.000	-	-	0.000	103.600	10	1.036	105.000	12	1.260	-	-	0.000	105.000	12	1.260
FAMS-S Small <sup>(†)</sup>	-	-	0.000	-	-	0.000	62.708	24	1.505	80.357	28	2.250	-	-	0.000	80.357	28	2.250
First Article Test	-	-	0.000	-	-	0.000	-	-	0.933	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>3.474</i>	-	-	<i>3.510</i>	-	-	<i>0.000</i>	-	-	<i>3.510</i>
Non Recurring Cost																		
Man Portable Systems	-	-	0.000	16.703	155	2.589	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>2.589</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>0.000</i>	-	-	<i>2.589</i>	-	-	<i>3.474</i>	-	-	<i>3.510</i>	-	-	<i>0.000</i>	-	-	<i>3.510</i>
<b>Package Fielding Cost</b>																		
Non Recurring Cost																		
Package Fielding	-	-	0.000	-	-	0.783	-	-	0.026	-	-	0.370	-	-	0.000	-	-	0.370
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.783</i>	-	-	<i>0.026</i>	-	-	<i>0.370</i>	-	-	<i>0.000</i>	-	-	<i>0.370</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.783</i>	-	-	<i>0.026</i>	-	-	<i>0.370</i>	-	-	<i>0.000</i>	-	-	<i>0.370</i>
Logistics Cost																		
Non Recurring Cost																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM025 / Forward Area Mobility Spray System (FAMS-S)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
NET Training	-	-	0.000	-	-	0.000	-	-	0.225	-	-	0.150	-	-	0.000	-	-	0.150
Fielding Support	-	-	0.000	-	-	0.000	-	-	0.150	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.375</i>	-	-	<i>0.150</i>	-	-	<i>0.000</i>	-	-	<i>0.150</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.375</i>	-	-	<i>0.150</i>	-	-	<i>0.000</i>	-	-	<i>0.150</i>
Support Cost																		
Program Management	-	-	0.000	-	-	0.758	-	-	0.401	-	-	0.413	-	-	0.000	-	-	0.413
Engineering Support	-	-	0.000	-	-	0.203	-	-	0.548	-	-	0.281	-	-	0.000	-	-	0.281
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.961</i>	-	-	<i>0.949</i>	-	-	<i>0.694</i>	-	-	<i>0.000</i>	-	-	<i>0.694</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.000</b>	-	-	<b>4.333</b>	-	-	<b>4.824</b>	-	-	<b>4.724</b>	-	-	<b>0.000</b>	-	-	<b>4.724</b>

**Remarks:**

The Forward Area Mobility Spray System (FAMS-S) consists of three different variants; the man-portable, the small scale and large scale vehicle-mounted variants (previously consolidated as vehicle variant prior to FY23), to provide Special Operating Forces (SOF) and Special Operations Task Forces (SOTFs) a mobile platform capable of rapidly decontaminating chemical and biological (CB) agents from the exterior of aircraft, helicopters, boats, vehicles, or support equipment to a level that is clean enough for re-use without having to wear CB protective equipment in order to quickly re-equip the force - maximizing tactical flexibility and fighting strength, while minimizing the logistical burden and the cost of conducting Countering Weapons of Mass Destruction (CWMD) operations. FAMS-S transitioned from the Middle Tier Acquisition (MTA) pathway to a Major Capability Acquisition program during FY23.

Notes: The FAMS-S Vehicle variants are broken out into FAMS-S Large and FAMS-S Small starting in FY24 to more accurately distinguish capabilities. Man Portable cost increase due to user request for improved load carrying comfort, the increased use of stainless steel to protect against corrosion caused by decontamination solution, and significant supply chain cost increases over the original forecast.

Justification: FY25 funds the procurement of 12 FAMS-S Large variants and 28 FAMS-S Small variants to close SOF's highest priority forward deployable decontamination capability gaps. The units procured with FY25 will contribute to meeting FOC in FY28.

RDT&E Code B Item: 0604384BP/Proj MT5

**DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES**

- FAMS-S - Preliminary Design Review - Man-Portable Variant (May 2022)
- FAMS-S - Preliminary Design Review - Small/Large Variants (Sep 2022)
- FAMS-S - Operational Test and Evaluation - Man-Portable Variant (Jan 2023)
- FAMS-S - Critical Design Review - Man-Portable Variant (Feb 2023)
- FAMS-S - Operational Test and Evaluation - Small/Large Variants (Feb 2024 to Apr 2024)
- FAMS-S - Critical Design Review - Small/Large Variants (May 2024)
- FAMS-S - Initial Operational Capability - All Variants (Sep 2026 to Sep 2027)

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM025 / Forward Area Mobility Spray System (FAMS-S)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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FAMS-S - Full Operational Capability - All Variants (Sep 2027 to Sep 2028)

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> PHM025 / Forward Area Mobility Spray System (FAMS-S)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
FAMS-S Large		2024	TBD / N/A	C / FFP	TBD	Jun 2024	Apr 2025	10	103.600	Y		
FAMS-S Large		2025	Design West Technologies, Inc / Tustin, CA	SS / FFP	TBD	Apr 2025 <sup>(4)</sup>	Aug 2025	12	105.000			
FAMS-S Small		2024	TBD / N/A	C / FFP	TBD	Jun 2024	Apr 2025	24	62.708			
FAMS-S Small		2025	Design West Technologies, Inc / Tustin, CA	SS / FFP	TBD	Apr 2025 <sup>(5)</sup>	Aug 2025	28	80.357			

**Remarks:**  
During PB 24, the contracting strategy consisted of competitively awarding a single production contract for both FAMS-S Small and Large. Since then, the contracting strategy has changed to a sole-source award to Design West Technologies.

**Footnotes:**  
<sup>(4)</sup> Option  
<sup>(5)</sup> Option

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>				
Resource Summary			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)			-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)			30.845	10.188	49.455	30.799	0.000	30.799
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			30.845	10.188	49.455	30.799	0.000	30.799
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>			<b>30.845</b>	<b>10.188</b>	<b>49.455</b>	<b>30.799</b>	<b>0.000</b>	<b>30.799</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (\$ in Millions)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)			-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	29.591	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Protect: AP-PPE Ensembles (USSOCOM-JSOC) <sup>(f)</sup>	2.508	500	1.254	1.755	1,938	3.401	1.917	11,743	22.510	1.377	4,000	5.508	-	-	0.000	1.377	4,000	5.508
Protect: AP-PPE First Article Testing (FAT) and Production Lot Testing (PLT)	-	-	0.000	-	-	0.424	-	-	0.663	-	-	0.000	-	-	0.000	-	-	0.000
Protect: End items less than \$5M	-	-	0.000	-	-	0.000	-	-	0.000	-	-	6.441	-	-	0.000	-	-	6.441
Mitigate: End items less than \$5M	-	-	0.000	-	-	3.172	-	-	0.000	-	-	0.528	-	-	0.000	-	-	0.528
Understand: Low Temperature Plasma Mass Spectrometer (LTPMS)	-	-	0.000	-	-	0.000	204.643	28	5.730	-	-	0.000	-	-	0.000	-	-	0.000
Understand: End items less than \$5M	-	-	0.000	-	-	1.038	-	-	0.000	-	-	1.750	-	-	0.000	-	-	1.750
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>30.845</b>	<b>-</b>	<b>-</b>	<b>8.035</b>	<b>-</b>	<b>-</b>	<b>28.903</b>	<b>-</b>	<b>-</b>	<b>14.227</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>14.227</b>
Non Recurring Cost																		



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Protect: AP-PPE Material Purchase (USSOCOM) <sup>(†)</sup>	-	-	0.000	-	-	0.000	-	-	0.000	194.423	52	10.110	-	-	0.000	194.423	52	10.110
Protect: Assault Respirator <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.549	3,000	1.648	-	-	0.000	-	-	0.000	-	-	0.000
Protect: micro Powered Air Purifying Respirator (microPAPR) <sup>(†)</sup>	-	-	0.000	-	-	0.000	1.030	1,700	1.751	-	-	0.000	-	-	0.000	-	-	0.000
Protect: Modular Powered Air Purifying Respirator (MPAPR) <sup>(†)</sup>	-	-	0.000	-	-	0.000	1.808	2,380	4.302	1.808	2,380	4.302	-	-	0.000	1.808	2,380	4.302
Protect: Optimized CBRN Hydration System <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.184	7,000	1.288	-	-	0.000	-	-	0.000	-	-	0.000
Mitigate: Expedient Liquid Barrier System (ELBS) <sup>(†)</sup>	-	-	0.000	-	-	0.000	26.780	50	1.339	-	-	0.000	-	-	0.000	-	-	0.000
Mitigate: Field Expedient Munition Device Destruction (FEMDD)	-	-	0.000	-	-	0.000	1.300	1,200	1.560	-	-	0.000	-	-	0.000	-	-	0.000
Understand: Joint Handheld Biological Identifier (JHBI)Assays (SOF only) <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.310	720	0.223	-	-	0.000	-	-	0.000	-	-	0.000
Understand: Lightweight Flame Photometric Detector (LFPD)	-	-	0.000	-	-	0.000	43.875	8	0.351	-	-	0.000	-	-	0.000	-	-	0.000
Product Verification Testing	-	-	0.000	-	-	0.600	-	-	3.728	-	-	1.020	-	-	0.000	-	-	1.020
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.600</i>	-	-	<i>16.190</i>	-	-	<i>15.432</i>	-	-	<i>0.000</i>	-	-	<i>15.432</i>
<b>Subtotal: Hardware Cost</b>	-	-	<b>30.845</b>	-	-	<b>8.635</b>	-	-	<b>45.093</b>	-	-	<b>29.659</b>	-	-	<b>0.000</b>	-	-	<b>29.659</b>
Package Fielding Cost																		
Recurring Cost																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Transportation Authorization Code (TAC)	-	-	0.000	-	-	0.000	-	-	0.035	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.035</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.035</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Support Cost</b>																		
Program Management	-	-	0.000	-	-	0.842	-	-	1.854	-	-	0.641	-	-	0.000	-	-	0.641
Technical Support	-	-	0.000	-	-	0.711	-	-	2.473	-	-	0.499	-	-	0.000	-	-	0.499
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>1.553</i>	-	-	<i>4.327</i>	-	-	<i>1.140</i>	-	-	<i>0.000</i>	-	-	<i>1.140</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>30.845</b>	-	-	<b>10.188</b>	-	-	<b>49.455</b>	-	-	<b>30.799</b>	-	-	<b>0.000</b>	-	-	<b>30.799</b>

**Remarks:**

The 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 creates an integrated and layered defense portfolio of operationally relevant CBRND capabilities. These solutions can be quickly developed and fielded in response to the articulated needs of the geographic combatant commanders. Successful products are also transitioned to the Joint Forces, reducing cost and mitigating risk across the CBDP.

Notes: SPU RCDD elements align to the CBDP portfolio areas of Understand, Protect, Mitigate, and Enable. The SPU RCDD line procures multiple items of varied cost within each of these portfolio areas while providing agility to the portfolio by receiving and executing realigned PROC funds. For items less than \$5M, they are grouped together; any individual item greater than \$5M is identified above.

The material technology used to construct the USSOCOM AP-PPE Ensembles will discontinue production in 2025. The cost per hardware item fluctuates based on both the type of hardware and the mission profile configurations. First Article Test (FAT) or Production Lot Testing (PLT) is included in procurement costs as necessary. The AP-PPE Ensembles quantity increased from FY23 to FY24 due to the required Life of Buy; PLT increased to support the larger quantity and FY24 PLT covers all testing into FY25. As a result, program is purchasing bulk material buy in FY25.

Justification: FY25 funds procure the remaining 4,000 AP-PPE Ensembles to meet the JSOC life of buy and the material needed to support the production of the USSOCOM life of buy during FY26-29. FY25 funds procure 2,380 MPAPR systems, and many Protect, Mitigate, and Understand End Items that are less than \$5M. FY25 funds also provide the program management, technical support, and product acceptance and verification testing associated with each system.

RDT&E Code B Item: 0604384BP/Proj UN5; 0607384BP/Proj UN7

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

SPU RCDD - AP-PPE Mod - JSOC (Dec 2021 to Sep 2026)

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>
SPU RCDD - AP-PPE Mod (USSOCOM) (Jul 2024 to Sep 2029) SPU RCDD - Contaminated Waste Mitigation System (CWMS) (Dec 2020 to Apr 2024) SPU RCDD - Expedient Liquid Barrier System (ELBS) (Dec 2020 to Sep 2024) SPU RCDD - Individual CWMD Uniform Pack (ICUP) (Dec 2022 to Sep 2024) SPU RCDD - Low Temperature Plasma Mass Spectrometer (LTPMS) (Mar 2021 to Sep 2025)		
(t) indicates the presence of a P-5a		

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning: PB 2025 Chemical and Biological Defense Program</b>							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Protect: AP-PPE Ensembles (USSOCOM-JSOC) <sup>(†)</sup>		2022	Tennessee Apparel Corporation / Tullahoma, TN	C / FFP	ACC-APG, Natick, MA	Nov 2021 <sup>(6)</sup>	Sep 2022	500	2.508	Y		
Protect: AP-PPE Ensembles (USSOCOM-JSOC) <sup>(†)</sup>		2023	Tennessee Apparel Corporation / Tullahoma, TN	C / FFP	ACC-APG, Natick, MA	Mar 2023 <sup>(7)</sup>	Jun 2023	1,938	1.755	Y		
Protect: AP-PPE Ensembles (USSOCOM-JSOC) <sup>(†)</sup>		2024	Tennessee Apparel Corporation / Tullahoma, TN	C / FFP	ACC-APG, Natick, MA	Dec 2023 <sup>(8)</sup>	Jan 2024	11,743	1.917	Y		
Protect: AP-PPE Ensembles (USSOCOM-JSOC) <sup>(†)</sup>		2025	Tennessee Apparel Corporation / Tullahoma, TN	C / FFP	ACC-APG, Natick, MA	Dec 2024 <sup>(9)</sup>	Mar 2025	4,000	1.377	Y		
Protect: AP-PPE Material Purchase (USSOCOM) <sup>(†)</sup>		2025	Various / N/A	SS / FFP	TBD	Apr 2025	Nov 2025	52	194.423	N		
Protect: Assault Respirator		2024	D. Wheatley Enterprises Inc. / Belcamp, MD	C / FFP	GSA, Boston, MA	Dec 2023 <sup>(10)</sup>	Jan 2024	3,000	0.549	N		
Protect: micro Powered Air Purifying Respirator (microPAPR)		2024	D. Wheatley Enterprises Inc. / Belcamp, MD	SS / FFP	SOCOM, Tampa, FL	Dec 2023 <sup>(11)</sup>	Jan 2024	1,700	1.030	N		
Protect: Modular Powered Air Purifying Respirator (MPAPR)		2024	D. Wheatley Enterprises Inc. / Belcamp, MD	SS / FFP	ACC, APG, MD	Dec 2023 <sup>(12)</sup>	Jan 2024	2,380	1.808	N		
Protect: Modular Powered Air Purifying Respirator (MPAPR)		2025	D. Wheatley Enterprises Inc. / Belcamp, MD	SS / FFP	ACC, APG, MD	Dec 2024 <sup>(13)</sup>	Jan 2025	2,380	1.808			
Protect: Optimized CBRN Hydration System		2024	TBD / N/A	C / CPFF	ACC-APG, Natick, MA	Dec 2023 <sup>(14)</sup>	Dec 2024	7,000	0.184			
Mitigate: Expedient Liquid Barrier System (ELBS)		2024	TBD / N/A	C / FFP	GSA, Boston, MA	Dec 2023 <sup>(15)</sup>	Feb 2024	50	26.780	N		
Understand: Joint Handheld Biological Identifier (JHBI) Assays (SOF only)		2024	Biomeme / Philadelphia, PA	C / FFP	GSA, Boston, MA	Jun 2024 <sup>(16)</sup>	Dec 2024	720	0.310	N		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

The material technology used to construct the USSOCOM AP-PPE ensembles will discontinue production in 2025. As a result, program is purchasing bulk material buy in FY25. Concurrently, program is purchasing all garment options on an existing contract with Tennessee Apparel Corporation (TAC) for Joint Special Operations Command (JSOC). Plan to award follow-on procurement contract(s) in FY26 to reach total life of buy USSOCOM quantities.

**Footnotes:**

<sup>(6)</sup> (Delivery Order)

<sup>(7)</sup> (Delivery Order)

<sup>(8)</sup> Option

<sup>(9)</sup> (Delivery Order)

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

<p>(10) Option (11) Option (12) (Delivery Order) (13) (Delivery Order) (14) (Delivery Order) (15) (Delivery Order) (16) Option</p>
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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2022														Fiscal Year 2023										B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
Protect: AP-PPE Ensembles (USSOCOM-JSOC)																																
	1	2022	CBDP	.500	.000	.500		A	-	-	-	-	-	-	-	-	-	.100	.100	.100	.100	.100								.000		
Secondary Distribution			SOCOM	.500	.000	.500		A	-	-	-	-	-	-	-	-	-	.100	.100	.100	.100	.100							.000			
	1	2023	CBDP	1.938	.000	1.938																		A	-	-	-	.181	.300	.300	.300	.857
Secondary Distribution			SOCOM	1.938	.000	1.938																		A	-	-	-	.181	.300	.300	.300	.857
	1	2024	CBDP	11.743	.000	11.743																									11.743	
Secondary Distribution			SOCOM	11.743	.000	11.743																									11.743	
	1	2025	CBDP	4.000	.000	4.000																									4.000	
Secondary Distribution			SOCOM	4.000	.000	4.000																									4.000	
Protect: AP-PPE Material Purchase (USSOCOM)																																
	2	2025	CBDP	.052	.000	.052																									.052	
Secondary Distribution			SOCOM	.052	.000	.052																									.052	
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
								C	O	E	A	E	A	A	A	U	U	U	E	C	O	O	E	A	E	A	A	U	U	A	S	
								T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	A	S	

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
		<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2024													Fiscal Year 2025										B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		J U L	A U G
Protect: AP-PPE Ensembles (USSOCOM-JSOC)																														
	1	2022	CBDP	.500	.500	.000																							.000	
Secondary Distribution			SOCOM	.500	.500	.000																							.000	
	1	2023	CBDP	1.938	1.081	.857	.300	.300	.257																				.000	
Secondary Distribution			SOCOM	1.938	1.081	.857	.300	.300	.257																				.000	
	1	2024	CBDP	11.743	.000	11.743				A -	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.743		.000	
Secondary Distribution			SOCOM	11.743	.000	11.743				A -	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.743		.000	
	1	2025	CBDP	4.000	.000	4.000															A -	-	-	1.000	1.000	1.000	1.000		.000	
Secondary Distribution			SOCOM	4.000	.000	4.000															A -	-	-	1.000	1.000	1.000	1.000		.000	
Protect: AP-PPE Material Purchase (USSOCOM)																														
	2	2025	CBDP	.052	.000	.052																							.052	
Secondary Distribution			SOCOM	.052	.000	.052																							.052	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2026														Fiscal Year 2027														B A L A N C E																	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026														Calendar Year 2027																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																					
Protect: AP-PPE Ensembles (USSOCOM-JSOC)																																																			
	1	2022	CBDP	.500	.500	.000																													.000																
Secondary Distribution			SOCOM	.500	.500	.000																													.000																
	1	2023	CBDP	1.938	1.938	.000																													.000																
Secondary Distribution			SOCOM	1.938	1.938	.000																													.000																
	1	2024	CBDP	11.743	11.743	.000																													.000																
Secondary Distribution			SOCOM	11.743	11.743	.000																													.000																
	1	2025	CBDP	4.000	4.000	.000																													.000																
Secondary Distribution			SOCOM	4.000	4.000	.000																													.000																
Protect: AP-PPE Material Purchase (USSOCOM)																																																			
	2	2025	CBDP	.052	.000	.052	-	.008	.008	.009	.009	.009	.009															.000																							
Secondary Distribution			SOCOM	.052	.000	.052	-	.008	.008	.009	.009	.009	.009															.000																							
<table style="width:100%; border-collapse: collapse;"> <tr> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> <td>O C T</td> <td>N O V</td> <td>D E C</td> <td>J A N</td> <td>F E B</td> <td>M A R</td> <td>A P R</td> <td>M A Y</td> <td>J U N</td> <td>J U L</td> <td>A U G</td> <td>S E P</td> </tr> </table>																												O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																												



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM018 / Special Purpose Unit Rapid Capability Development and Demonstration (SPU RCDD)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Tennessee Apparel Corporation - Tullahoma, TN	500	2,000	5,000	-	2	1	3	-	2	1	3
2	Various - N/A	9	11	13	-	6	7	13	-	-	-	-

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				52.034	23.407	25.794	26.195	0.000	26.195
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				52.034	23.407	25.794	26.195	0.000	26.195
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>52.034</b>	<b>23.407</b>	<b>25.794</b>	<b>26.195</b>	<b>0.000</b>	<b>26.195</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	17.415	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Air Suits <sup>(†)</sup>	0.951	36,403	34.619	0.809	21,646	17.503	1.000	19,250	19.250	0.900	20,981	18.882	-	-	0.000	0.900	20,981	18.882
Engineering Support	-	-	0.000	-	-	0.965	-	-	1.649	-	-	1.700	-	-	0.000	-	-	1.700
<i>Subtotal: Recurring Cost</i>	-	-	<b>52.034</b>	-	-	<b>18.468</b>	-	-	<b>20.899</b>	-	-	<b>20.582</b>	-	-	<b>0.000</b>	-	-	<b>20.582</b>
<i>Subtotal: Hardware Cost</i>	-	-	<b>52.034</b>	-	-	<b>18.468</b>	-	-	<b>20.899</b>	-	-	<b>20.582</b>	-	-	<b>0.000</b>	-	-	<b>20.582</b>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Production Lot Testing	-	-	0.000	-	-	0.457	-	-	0.400	-	-	0.634	-	-	0.000	-	-	0.634
<i>Subtotal: Recurring Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.457</b>	-	-	<b>0.400</b>	-	-	<b>0.634</b>	-	-	<b>0.000</b>	-	-	<b>0.634</b>
Non Recurring Cost																		
New Equipment Training	-	-	0.000	-	-	0.446	-	-	0.546	-	-	0.446	-	-	0.000	-	-	0.446
<i>Subtotal: Non Recurring Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.446</b>	-	-	<b>0.546</b>	-	-	<b>0.446</b>	-	-	<b>0.000</b>	-	-	<b>0.446</b>
<i>Subtotal: Package Fielding Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.903</b>	-	-	<b>0.946</b>	-	-	<b>1.080</b>	-	-	<b>0.000</b>	-	-	<b>1.080</b>
<b>Logistics Cost</b>																		
Recurring Cost																		

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Logistics Support	-	-	0.000	-	-	1.378	-	-	1.061	-	-	1.310	-	-	0.000	-	-	1.310
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	1.378	-	-	1.061	-	-	1.310	-	-	0.000	-	-	1.310
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	1.378	-	-	1.061	-	-	1.310	-	-	0.000	-	-	1.310
Support Cost																		
Program Management	-	-	0.000	-	-	1.569	-	-	1.888	-	-	1.925	-	-	0.000	-	-	1.925
IPT Support	-	-	0.000	-	-	1.089	-	-	1.000	-	-	1.298	-	-	0.000	-	-	1.298
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	2.658	-	-	2.888	-	-	3.223	-	-	0.000	-	-	3.223
<b>Gross/Weapon System Cost</b>	-	-	<b>52.034</b>	-	-	<b>23.407</b>	-	-	<b>25.794</b>	-	-	<b>26.195</b>	-	-	<b>0.000</b>	-	-	<b>26.195</b>

**Remarks:**

The Uniform Integrated Protection Ensemble Family of Systems (UIPE FoS) Air program will provide the warfighter percutaneous protection from operationally relevant traditional and non-traditional Chemical, Biological, Radiological, Nuclear (CBRN) threats. UIPE FoS Air will improve aircrew performance and survivability under CBRN conditions by reducing thermal burden and bulk, while increasing mobility and resulting in an increase operational effectiveness. The Two Piece Undergarment (2PUG) will address the USAF and United States Navy / United States Marine Corps tactical/ejection seat (rotary wing) and non-ejection (fixed wing) platforms.

Notes: Increase in logistics support costs due to increase in production quantities in FY25.

Justification: FY25 funds procure 20,981 Air Mission Area Two Piece Undergarment (2PUG) suits, moving the program towards 2PUG Full Operational Capability (FOC) in FY29.

RDT&E Code B Item: 0604384BP/Proj PT5

**DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES**

- UIPE FOS AIR - Fixed Wing Non-Ejection Aircraft Testing (Mar 2021 to Jul 2023)
- UIPE FOS AIR - Fixed Wing Ejection Aircraft Integration Testing (Mar 2021 to Jul 2023)
- UIPE FOS AIR - Rotary Wing Aircraft Integration Testing (Apr 2021 to Jul 2023)
- UIPE FOS AIR - Safe to Fly Certification (Jul 2022 to Jan 2024)
- UIPE FOS AIR - Safe-to-Fly and Airworthiness Testing (Oct 2022 to Jul 2023)
- UIPE FOS AIR - Capability Development Document (CDD) Update (Mar 2023)
- UIPE FOS AIR - Full Rate Production Decision - 2PUG (Mar 2023)
- UIPE FOS AIR - Initial Operational Capability - 2PUG (Apr 2024)
- UIPE FOS AIR - Full Operational Capability - 2PUG (Dec 2028)

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>	
<sup>(†)</sup> indicates the presence of a P-5a		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Air Suits <sup>(†)</sup>		2022	ReadyOne Industries, Inc./ Source America / El Paso, TX	C / FFP	ACC, APG, MD	Sep 2022	Nov 2023	36,403	0.951	Y		
Air Suits <sup>(†)</sup>		2023	ReadyOne Industries, Inc./ Source America / El Paso, TX	C / FFP	ACC, APG, MD	Jul 2023	Nov 2024	21,646	0.809	Y	Jun 2023	
Air Suits <sup>(†)</sup>		2024	ReadyOne Industries, Inc./ Source America / El Paso, TX	SS / FFP	ACC, APG, MD	Mar 2024	Mar 2025	19,250	1.000	Y	Dec 2022	
Air Suits <sup>(†)</sup>		2025	ReadyOne Industries, Inc./ Source America / El Paso, TX	C / FFP	ACC, APG, MD	Mar 2025	Nov 2026	20,981	0.900	Y	Jun 2023	

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

After FY22 production there will be an additional 6 months of production lead time to each subsequent order due to the need to finish manufacturing of assets for previous contracts before the start of manufacturing for the next contract.



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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program															<b>Date:</b> March 2024														
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1										<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation										<b>Item Number / Title [DODIC]:</b> PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2024															Fiscal Year 2025															B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024															Calendar Year 2025															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Air Suits																																					
	1	2022	CBDP	36.403	.000	36.403	-	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.051														.000				
Secondary Distribution			MC	5.092	.000	5.092	-	.424	.424	.424	.424	.424	.424	.424	.424	.424	.424	.424	.428													.000					
			NAVY	5.313	.000	5.313	-	.442	.442	.442	.442	.442	.442	.442	.442	.442	.442	.442	.451													.000					
			AF	25.998	.000	25.998	-	2.166	2.166	2.166	2.166	2.166	2.166	2.166	2.166	2.166	2.166	2.166	2.172													.000					
	1	2023	CBDP	21.646	.000	21.646	-	-	-	-	-	-	-	-	-	-	-	-	-	1.803	1.803	1.803	1.803	1.803	1.803	1.803	1.803	1.803	1.803	1.803	1.813						
Secondary Distribution			AF	15.550	.000	15.550	-	-	-	-	-	-	-	-	-	-	-	-	-	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.305						
			MC	3.060	.000	3.060	-	-	-	-	-	-	-	-	-	-	-	-	-	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255					
			NAVY	3.036	.000	3.036	-	-	-	-	-	-	-	-	-	-	-	-	-	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253				
																					.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253				
	1	2024	CBDP	19.250	.000	19.250																															
Secondary Distribution			NAVY	3.320	.000	3.320																															
			AF	12.768	.000	12.768																															
			MC	3.162	.000	3.162																															
	1	2025	CBDP	20.981	.000	20.981																															
Secondary Distribution			NAVY	3.701	.000	3.701																															
			MC	3.420	.000	3.420																															
			AF	13.860	.000	13.860																															

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
		<b>Item Number / Title [DODIC]:</b> PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2026												Fiscal Year 2027												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Air Suits																															
	1	2022	CBDP	36.403	36.403	.000																							.000		
			MC	5.092	5.092	.000																							.000		
			NAVY	5.313	5.313	.000																							.000		
			AF	25.998	25.998	.000																							.000		
	1	2023	CBDP	21.646	19.833	1.813	1.813																						.000		
			AF	15.550	14.245	1.305	1.305																						.000		
			MC	3.060	2.805	.255	.255																						.000		
			NAVY	3.036	2.783	.253	.253																						.000		
	1	2024	CBDP	19.250	11.225	8.025	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605															.000		
			NAVY	3.320	1.935	1.385	.277	.277	.277	.277	.277	.277	.277	.277															.000		
			AF	12.768	7.448	5.320	1.064	1.064	1.064	1.064	1.064	1.064	1.064															.000			
			MC	3.162	1.842	1.320	.264	.264	.264	.264	.264	.264	.264															.000			
	1	2025	CBDP	20.981	.000	20.981	-	-	-	-	-	-	-	-	-	-	-	-	-	1.749	1.749	1.749	1.748	1.748	1.748	1.748	1.748	1.748	1.750		
			NAVY	3.701	.000	3.701	-	-	-	-	-	-	-	-	-	-	-	-	-	.309	.309	.309	.308	.308	.308	.308	.308	.308	.310		
			MC	3.420	.000	3.420	-	-	-	-	-	-	-	-	-	-	-	-	-	.285	.285	.285	.285	.285	.285	.285	.285	.285	.285		
			AF	13.860	.000	13.860	-	-	-	-	-	-	-	-	-	-	-	-	-	1.155	1.155	1.155	1.155	1.155	1.155	1.155	1.155	1.155			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	





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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM034 / Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FOS AIR)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	ReadyOne Industries, Inc./ Source America - El Paso, TX	1,500	2,500	6,000	-	6	13	19	7	5	20	25

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM032 / Uniform Integrated Protective Ensemble Family of Systems Gloves (UIPE FOS GLOVES)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		0.000	0.000	4.978	6.215	0.000	6.215
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		0.000	0.000	4.978	6.215	0.000	6.215
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>0.000</b>	<b>0.000</b>	<b>4.978</b>	<b>6.215</b>	<b>0.000</b>	<b>6.215</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Non Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Engineering Support	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.458	-	-	0.000	-	-	0.458
Glove <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.100	36,900	3.690	0.090	46,280	4.170	-	-	0.000	0.090	46,280	4.170
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>3.690</i>	-	-	<i>4.628</i>	-	-	<i>0.000</i>	-	-	<i>4.628</i>
<b>Subtotal: Hardware Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>3.690</b>	-	-	<b>4.628</b>	-	-	<b>0.000</b>	-	-	<b>4.628</b>
<b>Package Fielding Cost</b>																		
Non Recurring Cost																		
Rapid Fielding Prep and Reviews	-	-	0.000	-	-	0.000	-	-	0.260	-	-	0.000	-	-	0.000	-	-	0.000
Fielding	-	-	0.000	-	-	0.000	-	-	0.250	-	-	0.250	-	-	0.000	-	-	0.250
Production Lot Testing	-	-	0.000	-	-	0.000	-	-	0.414	-	-	0.455	-	-	0.000	-	-	0.455
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.924</i>	-	-	<i>0.705</i>	-	-	<i>0.000</i>	-	-	<i>0.705</i>
<b>Subtotal: Package Fielding Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.924</b>	-	-	<b>0.705</b>	-	-	<b>0.000</b>	-	-	<b>0.705</b>
<b>Logistics Cost</b>																		
Non Recurring Cost																		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM032 / Uniform Integrated Protective Ensemble Family of Systems Gloves (UIPE FOS GLOVES)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Logistics Support	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.426	-	-	0.000	-	-	0.426
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.426	-	-	0.000	-	-	0.426
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.426	-	-	0.000	-	-	0.426
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	0.000	-	-	0.364	-	-	0.456	-	-	0.000	-	-	0.456
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	0.000	-	-	0.364	-	-	0.456	-	-	0.000	-	-	0.456
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	0.000	-	-	4.978	-	-	6.215	-	-	0.000	-	-	6.215

**Remarks:**

The Uniform Integrated Protective Ensemble Family of Systems (UIPE FoS) Gloves provides percutaneous protection to ground and aviation missions for the hand and wrist interface of the warfighter against traditional and non-traditional chemical, biological, radiological and nuclear (CBRN) threats. UIPE FoS Gloves will provide improved comfort, tactility and dexterity and for General Purpose, Aviation Heavy and Aviation Light mission profiles with enhanced touch screen and flame resistant capability. UIPE FoS Gloves is a Middle Tier Acquisition (MTA) program.

Justification: FY25 funds procure 46,280 gloves and completes Production Qualification Tests to support the Initial Operational Capability (IOC) of multiple Service mission profiles (General Purpose, Aviation Heavy and Aviation Light).

RDT&E Code B Item: 0604384BP/Proj PT5

**DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES**

- UIPE FOS GLOVES - Early User, material and system level testing (Jan 2021 to Jan 2024)
- UIPE FOS GLOVES - Mid-Tier Acquisition Rapid Prototype Initiation (Jul 2021 to Oct 2022)
- UIPE FOS GLOVES - Mid-Tier Acquisition DT/OT (Jan 2022 to Feb 2025)
- UIPE FOS GLOVES - Approved CDD (Mar 2023)
- UIPE FOS GLOVES - Mid-Tier Acquisition IPR (Apr 2023)
- UIPE FOS GLOVES - Mid-Tier Acquisition Rapid Prototyping Decision Point (Aug 2023 to Feb 2024)
- UIPE FOS GLOVES - Milestone C - Milestone C (Mar 2025)
- UIPE FOS GLOVES - Full Rate Production Decision - FRP Decision (Mar 2025)

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> PHM032 / Uniform Integrated Protective Ensemble Family of Systems Gloves (UIPE FOS GLOVES)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Glove		2024	TBD / N/A	TBD	TBD	Sep 2024	Dec 2024	36,900	0.100			
Glove		2025	TBD / N/A	TBD	TBD	Sep 2025 <sup>(17)</sup>	Dec 2025	46,280	0.090			

**Footnotes:**

<sup>(17)</sup> Option

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		4.456	30.145	55.100	82.861	0.000	82.861
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		4.456	30.145	55.100	82.861	0.000	82.861
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>4.456</b>	<b>30.145</b>	<b>55.100</b>	<b>82.861</b>	<b>0.000</b>	<b>82.861</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	1.496	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Engineering Support	-	-	0.000	-	-	2.123	-	-	2.989	-	-	3.489	-	-	0.000	-	-	3.489
GP Suits <sup>(†)</sup>	-	-	0.000	1.873	7,564	14.166	1.968	25,201	49.605	1.816	37,690	68.454	-	-	0.000	1.816	37,690	68.454
TATPE Ancillary Equip & Kitting <sup>(†)</sup>	4.851	269	1.305	5.947	567	3.372	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
TATPE Garments & Package Load Carriage <sup>(†)</sup>	6.620	250	1.655	7.256	598	4.339	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	4.456	-	-	24.000	-	-	52.594	-	-	71.943	-	-	0.000	-	-	71.943
<i>Subtotal: Hardware Cost</i>	-	-	4.456	-	-	24.000	-	-	52.594	-	-	71.943	-	-	0.000	-	-	71.943
Package Fielding Cost																		
Non Recurring Cost																		
Fielding	-	-	0.000	-	-	0.491	-	-	0.000	-	-	0.491	-	-	0.000	-	-	0.491
Production Lot Testing	-	-	0.000	-	-	0.445	-	-	0.000	-	-	0.890	-	-	0.000	-	-	0.890
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.936	-	-	0.000	-	-	1.381	-	-	0.000	-	-	1.381
<i>Subtotal: Package Fielding Cost</i>	-	-	0.000	-	-	0.936	-	-	0.000	-	-	1.381	-	-	0.000	-	-	1.381

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B	<b>MDAP/MAIS Code:</b>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
Surveillance and Logistics	-	-	0.000	-	-	1.946	-	-	1.206	-	-	3.181	-	-	0.000	-	-	3.181
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	1.946	-	-	1.206	-	-	3.181	-	-	0.000	-	-	3.181
<b>Non Recurring Cost</b>																		
TATPE - NET/Fielding Support	-	-	0.000	-	-	0.225	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
TATPE - Material Acceptance Testing, Production Lot Testing	-	-	0.000	-	-	0.445	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.670	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Logistics Cost</i>	-	-	<b>0.000</b>	-	-	<b>2.616</b>	-	-	<b>1.206</b>	-	-	<b>3.181</b>	-	-	<b>0.000</b>	-	-	<b>3.181</b>
<b>Support Cost</b>																		
Program Management	-	-	0.000	-	-	1.329	-	-	1.300	-	-	6.356	-	-	0.000	-	-	6.356
TATPE - Program Management	-	-	0.000	-	-	1.264	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	<b>0.000</b>	-	-	<b>2.593</b>	-	-	<b>1.300</b>	-	-	<b>6.356</b>	-	-	<b>0.000</b>	-	-	<b>6.356</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>4.456</b>	-	-	<b>30.145</b>	-	-	<b>55.100</b>	-	-	<b>82.861</b>	-	-	<b>0.000</b>	-	-	<b>82.861</b>

**Remarks:**

The Uniform Integrated Protection Ensemble Family of Systems (UIPE FoS) General Purpose (GP) is a two-piece, lightweight, duty uniform-like replacement, and part of a family of systems that will give the warfighter percutaneous protection from operationally relevant traditional, non-traditional, and advanced CBRN/Toxic Industrial Material (TIM) threats likely to be encountered during joint force operations. The UIPE FoS GP replaces the legacy chemical biological garment. The Tactical Advanced Threat Protective Ensemble (TATPE) is a first-of-its-kind Special Operations Command (SOCOM)-only niche ensemble that will bridge the gap between current military protective ensembles and the next generation military protective ensembles by providing increased protection against specific Countering Weapons of Mass Destruction (CWMD) crisis response mission execution.

Notes: Increase in fielding, surveillance and logistics and program management costs due to increase in production quantities in FY25.

Justification: FY25 funds procure 39,678 UIPE FoS GP garments and the necessary production lot testing of those garments in support of FOC.

RDT&E Code B Item: 0604384BP/Proj PT5

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : B		<b>MDAP/MAIS Code:</b>
<p>DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES</p> <p>UIPE FOS GP - Initial Operational Capability - TATPE (Feb 2024)          UIPE FOS GP - Full Operational Capability - TATPE (May 2025)          UIPE FOS GP - Operational Assessment (Oct 2022 to Dec 2022)          UIPE FOS GP - Joint Independent Logistics Assessment (JILA) (Apr 2023 to Sep 2023)          UIPE FOS GP - Manufacturing Readiness Assessment (MRA) (Apr 2023 to Sep 2023)          UIPE FOS GP - Production Initiation Contract (Jul 2023 to Sep 2023)          UIPE FOS GP - Test &amp; Evaluation Master Plan (TEMP) Update (Sep 2023 to Mar 2024)          UIPE FOS GP - Capability Development Document (CDD) Update (if needed) (Jan 2024 to Jun 2024)          UIPE FOS GP - Production Contract Award (Mar 2024 to Sep 2024)          UIPE FOS GP - Milestone C (Jun 2024)          UIPE FOS GP - Operational Test and Evaluation (Jul 2025 to Dec 2025)          UIPE FOS GP - Full Rate Production Decision (Jun 2026)</p> <p>(t) indicates the presence of a P-5a</p>		



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program								<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation					<b>Item Number / Title [DODIC]:</b> PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
GP Suits <sup>(†)</sup>		2023	ReadyOne Industries, Inc./ Source America / El Paso, TX	C / FFP	ACC, APG, MD	Sep 2023	Sep 2024	7,564	1.873	Y	Jan 2023	Jun 2023
GP Suits <sup>(†)</sup>		2024	ReadyOne Industries, Inc./ Source America / El Paso, TX	C / FFP	ACC, APG, MD	Apr 2024	Apr 2025	25,201	1.968	Y	Jan 2024	Sep 2023
GP Suits <sup>(†)</sup>		2025	ReadyOne Industries, Inc./ Source America / El Paso, TX	C / FFP	ACC, APG, MD	Apr 2025	Apr 2026	37,690	1.816	Y	Jan 2025	Sep 2024
TATPE Ancillary Equip & Kitting		2022	Various / N/A	C / FFP	GSA, Boston, MA	Sep 2022	Mar 2023	269	4.851			
TATPE Ancillary Equip & Kitting		2023	Various / N/A	C / FFP	GSA, Boston, MA	Sep 2023 <sup>(18)</sup>	Mar 2024	567	5.947			
TATPE Garments & Package Load Carriage		2022	Various / N/A	C / FFP	ACC-APG, Natick, MA	Sep 2022	Oct 2023	250	6.620			
TATPE Garments & Package Load Carriage		2023	Various / N/A	C / FFP	ACC-APG, Natick, MA	Apr 2023 <sup>(19)</sup>	Mar 2024	598	7.256			

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

<sup>(18)</sup> (Delivery Order)

<sup>(19)</sup> (Delivery Order)

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
		<b>Item Number / Title [DODIC]:</b> PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2022														Fiscal Year 2023														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
GP Suits																																			
	1	2023	CBDP	7.564	.000	7.564																								A -	7.564				
			NAVY	1.886	.000	1.886																								A -	1.886				
			MC	1.894	.000	1.894																								A -	1.894				
			AF	1.892	.000	1.892																								A -	1.892				
			ARMY	1.892	.000	1.892																								A -	1.892				
	1	2024	CBDP	25.201	.000	25.201																									25.201				
			ARMY	6.300	.000	6.300																									6.300				
			MC	6.300	.000	6.300																									6.300				
			NAVY	6.301	.000	6.301																									6.301				
			AF	6.300	.000	6.300																									6.300				
	1	2025	CBDP	37.690	.000	37.690																									37.690				
			NAVY	9.420	.000	9.420																									9.420				
			ARMY	9.425	.000	9.425																									9.425				
			AF	9.425	.000	9.425																									9.425				
			MC	9.420	.000	9.420																									9.420				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					



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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2026												Fiscal Year 2027												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
GP Suits																															
	1	2023	CBDP	7.564	7.564	.000																							.000		
Secondary Distribution			NAVY	1.886	1.886	.000																							.000		
			MC	1.894	1.894	.000																							.000		
			AF	1.892	1.892	.000																							.000		
			ARMY	1.892	1.892	.000																							.000		
	1	2024	CBDP	25.201	12.600	12.601	2.100	2.100	2.100	2.100	2.100	2.101																	.000		
Secondary Distribution			ARMY	6.300	3.150	3.150	.525	.525	.525	.525	.525	.525																	.000		
			MC	6.300	3.150	3.150	.525	.525	.525	.525	.525	.525																	.000		
			NAVY	6.301	3.150	3.151	.525	.525	.525	.525	.525	.526																		.000	
			AF	6.300	3.150	3.150	.525	.525	.525	.525	.525	.525																		.000	
	1	2025	CBDP	37.690	.000	37.690	-	-	-	-	-	-	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.150	.000				
Secondary Distribution			NAVY	9.420	.000	9.420	-	-	-	-	-	-	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.000				
			ARMY	9.425	.000	9.425	-	-	-	-	-	-	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.790	.000				
			AF	9.425	.000	9.425	-	-	-	-	-	-	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.790	.000				
			MC	9.420	.000	9.420	-	-	-	-	-	-	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.785	.000				
													O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
<b>Item Number / Title [DODIC]:</b> PHM033 / Uniform Integrated Protective Ensemble Family of Systems General Purpose (UIPE FOS GP)		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	ReadyOne Industries, Inc./ Source America - El Paso, TX	1,500	2,500	6,000	-	6	12	18	-	6	12	18

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JM6677 / Advanced Anticonvulsant System (AAS)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
Resource Summary				Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				5.809	18.147	24.101	15.301	0.000	15.301
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				5.809	18.147	24.101	15.301	0.000	15.301
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>5.809</b>	<b>18.147</b>	<b>24.101</b>	<b>15.301</b>	<b>0.000</b>	<b>15.301</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	2.509	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Autoinjectors <sup>(1)</sup>	0.060	55,000	3.300	0.060	225,000	13.500	0.062	300,000	18.540	0.064	170,000	10.821	-	-	0.000	0.064	170,000	10.821
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>5.809</b>	<b>-</b>	<b>-</b>	<b>13.500</b>	<b>-</b>	<b>-</b>	<b>18.540</b>	<b>-</b>	<b>-</b>	<b>10.821</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>10.821</b>
Non Recurring Cost																		
Production Support	-	-	0.000	-	-	2.250	-	-	2.350	-	-	3.143	-	-	0.000	-	-	3.143
<b>Subtotal: Non Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>2.250</b>	<b>-</b>	<b>-</b>	<b>2.350</b>	<b>-</b>	<b>-</b>	<b>3.143</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>3.143</b>
<b>Subtotal: Hardware Cost</b>	<b>-</b>	<b>-</b>	<b>5.809</b>	<b>-</b>	<b>-</b>	<b>15.750</b>	<b>-</b>	<b>-</b>	<b>20.890</b>	<b>-</b>	<b>-</b>	<b>13.964</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>13.964</b>
<b>Logistics Cost</b>																		
Non Recurring Cost																		
Shipping	-	-	0.000	-	-	0.150	-	-	0.200	-	-	0.342	-	-	0.000	-	-	0.342
<b>Subtotal: Non Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>0.150</b>	<b>-</b>	<b>-</b>	<b>0.200</b>	<b>-</b>	<b>-</b>	<b>0.342</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>0.342</b>
<b>Subtotal: Logistics Cost</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>0.150</b>	<b>-</b>	<b>-</b>	<b>0.200</b>	<b>-</b>	<b>-</b>	<b>0.342</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>0.342</b>
<b>Support Cost</b>																		
PMO Support	-	-	0.000	-	-	2.247	-	-	3.011	-	-	0.995	-	-	0.000	-	-	0.995
<b>Subtotal: Support Cost</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>2.247</b>	<b>-</b>	<b>-</b>	<b>3.011</b>	<b>-</b>	<b>-</b>	<b>0.995</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>0.995</b>
<b>Gross/Weapon System Cost</b>	<b>-</b>	<b>-</b>	<b>5.809</b>	<b>-</b>	<b>-</b>	<b>18.147</b>	<b>-</b>	<b>-</b>	<b>24.101</b>	<b>-</b>	<b>-</b>	<b>15.301</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>15.301</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JM6677 / Advanced Anticonvulsant System (AAS)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Remarks:</b> The Advanced Anticonvulsant System (AAS) will consist of the drug midazolam in an autoinjector for use in treating nerve agent induced seizures and will replace the currently fielded Convulsant Antidote for Nerve Agent (CANA) autoinjector, which uses diazepam. Anticonvulsant autoinjectors are needed in order to deliver treatments as quickly as possible to service members at the point of exposure on the battlefield. Without these lifesaving autoinjectors, our service members would have to wait for treatment from someone who is medically trained, which increases the likelihood of long term effects of nerve agent exposure and possibly death. The AAS midazolam autoinjector is required to maintain operational readiness for an anticonvulsant autoinjector.  Notes: The decrease in funding from FY24 to FY25 is due to reduced requirement for autoinjector production attributable to fulfillment of Full Operational Capability (FOC) in FY25. The procurement unit cost increase from FY24 to FY25 is due to the projected price increase of the product, along with the current economic inflationary pressures.  Justification: FY25 funds support fulfillment of FOC by procuring 170,000 autoinjectors.  (t) indicates the presence of a P-5a		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> JM6677 / Advanced Anticonvulsant System (AAS)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Autoinjectors <sup>(†)</sup>		2022	Rafa Laboratories / Jerusalem, Israel	SS / FFP	ACC-APG, Natick, MA	Dec 2022	Jan 2023	55,000	0.060	Y		
Autoinjectors <sup>(†)</sup>		2023	Rafa Laboratories / Jerusalem, Israel	SS / FFP	ACC-APG, Natick, MA	Dec 2022 <sup>(20)</sup>	Mar 2023	225,000	0.060	Y		
Autoinjectors <sup>(†)</sup>		2024	Rafa Laboratories / Jerusalem, Israel	SS / FFP	ACC-APG, Natick, MA	Dec 2023 <sup>(21)</sup>	Feb 2024	300,000	0.062	Y		
Autoinjectors <sup>(†)</sup>		2025	Rafa Laboratories / Jerusalem, Israel	SS / FFP	ACC-APG, Natick, MA	Dec 2024 <sup>(22)</sup>	Feb 2025	170,000	0.064	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

<sup>(20)</sup> Option

<sup>(21)</sup> Option

<sup>(22)</sup> Option



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**Exhibit P-21, Production Schedule: PB 2025 Chemical and Biological Defense Program** **Date:** March 2024

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JM6677 / Advanced Anticonvulsant System (AAS)
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2023													Fiscal Year 2024													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Autoinjectors																																	
	1	2022	CBDP	55.000	.000	55.000			A -	30.000	25.000																			.000			
			AF	7.204	.000	7.204			A -	7.204	-																			.000			
			NAVY	12.376	.000	12.376			A -	12.376	-																			.000			
			MC	4.400	.000	4.400			A -	4.400	-																			.000			
			ARMY	31.020	.000	31.020			A -	6.020	25.000																			.000			
	1	2023	CBDP	225.000	.000	225.000			A -	-	-	56.250	-	56.250	-	56.250	-	56.250												.000			
			NAVY	50.628	.000	50.628			A -	-	-	12.657	-	12.657	-	12.657	-	12.657												.000			
			AF	29.472	.000	29.472			A -	-	-	7.368	-	7.368	-	7.368	-	7.368												.000			
			ARMY	126.900	.000	126.900			A -	-	-	31.725	-	31.725	-	31.725	-	31.725												.000			
			MC	18.000	.000	18.000			A -	-	-	4.500	-	4.500	-	4.500	-	4.500												.000			
	1	2024	CBDP	300.000	.000	300.000														A -	-	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	100.000			
			MC	24.000	.000	24.000														A -	-	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	8.000			
			AF	39.296	.000	39.296														A -	-	3.275	3.275	3.275	3.275	3.275	3.275	3.275	3.275	13.096			
			NAVY	67.504	.000	67.504														A -	-	5.625	5.625	5.625	5.625	5.625	5.625	5.625	5.625	22.504			
			ARMY	169.200	.000	169.200														A -	-	14.100	14.100	14.100	14.100	14.100	14.100	14.100	14.100	56.400			
	1	2025	CBDP	170.000	.000	170.000																								170.000			
			NAVY	38.252	.000	38.252																								38.252			
			AF	22.268	.000	22.268																								22.268			
			ARMY	95.880	.000	95.880																								95.880			
			MC	13.600	.000	13.600																								13.600			
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
		<b>Item Number / Title [DODIC]:</b> JM6677 / Advanced Anticonvulsant System (AAS)

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2025												Fiscal Year 2026												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
Autoinjectors																															
	1	2022	CBDP	55.000	55.000	.000																							.000		
			AF	7.204	7.204	.000																							.000		
			NAVY	12.376	12.376	.000																							.000		
			MC	4.400	4.400	.000																							.000		
			ARMY	31.020	31.020	.000																							.000		
	1	2023	CBDP	225.000	225.000	.000																							.000		
			NAVY	50.628	50.628	.000																							.000		
			AF	29.472	29.472	.000																							.000		
			ARMY	126.900	126.900	.000																							.000		
			MC	18.000	18.000	.000																							.000		
	1	2024	CBDP	300.000	200.000	100.000	25.000	25.000	25.000	25.000																			.000		
			MC	24.000	16.000	8.000	2.000	2.000	2.000	2.000																			.000		
			AF	39.296	26.200	13.096	3.275	3.275	3.275	3.271																			.000		
			NAVY	67.504	45.000	22.504	5.625	5.625	5.625	5.629																			.000		
			ARMY	169.200	112.800	56.400	14.100	14.100	14.100	14.100																			.000		
	1	2025	CBDP	170.000	.000	170.000					A -	-	28.332	28.332	28.332	28.332	28.332	28.332	28.340										.000		
			NAVY	38.252	.000	38.252					A -	-	6.375	6.375	6.375	6.375	6.375	6.375	6.377										.000		
			AF	22.268	.000	22.268					A -	-	3.711	3.711	3.711	3.711	3.711	3.711	3.713										.000		
			ARMY	95.880	.000	95.880					A -	-	15.980	15.980	15.980	15.980	15.980	15.980	15.980										.000		
			MC	13.600	.000	13.600					A -	-	2.266	2.266	2.266	2.266	2.266	2.266	2.270										.000		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
		<b>Item Number / Title [DODIC]:</b> JM6677 / Advanced Anticonvulsant System (AAS)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Rafa Laboratories - Jerusalem, Israel	25,000	25,000	30,000	13	2	1	3	-	2	2	4

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JX0005 / DoD Biological Vaccine Procurement (VACCINES)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		627.235	10.000	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		627.235	10.000	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>627.235</b>	<b>10.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Package Fielding Cost																		
Non Recurring Cost																		
Prior/Future combined efforts	-	-	627.235	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
TPOXX	-	-	0.000	-	-	8.985	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>627.235</i>	-	-	<i>8.985</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>627.235</i>	-	-	<i>8.985</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
Support Cost																		
Contracts	-	-	0.000	-	-	1.015	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>1.015</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>627.235</b>	-	-	<b>10.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

**Remarks:**

The Biological Treatment Procurement Program ensures the Department of Defense (DoD) capability to acquire and stockpile adequate quantities of all Biological Warfare (BW) treatments to protect the programmed force against validated BW agents. Items currently in the stockpile are the Food and Drug Administration (FDA) approved Smallpox treatment. Funding supports treatment and approved biologic production, quality assurance and control, equipment validation, process change management, documentation control, and all FDA approval maintenance and post-approval commitments (Phase 4 clinical trials). The annual vaccination program for the Services is funded by the Defense Health Program.

Notes: FY23 is funded by a Congressional Increase for TPOXX, a Post-Exposure Prophylaxis (PEP) for smallpox exposure and this effort replenishes the DoD stockpile.

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JX0005 / DoD Biological Vaccine Procurement (VACCINES)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	

Justification: No FY25 funds requested.

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JI0002 / Joint Service Aircrew Mask (JSAM)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>				<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				287.784	22.265	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				287.784	22.265	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>				<b>287.784</b>	<b>22.265</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)				-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Prior/Future combined efforts	-	-	270.841	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSAM RW - MPU-5 Hardware - FRP <sup>(†)</sup>	3.763	4,502	16.943	3.943	3,258	12.846	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSAM RW - Engineering Support	-	-	0.000	-	-	0.795	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSAM SA - M69 - Production Support	-	-	0.000	-	-	0.645	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSAM SA - M69 - Engineering Support	-	-	0.000	-	-	0.041	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Recurring Cost</b>	-	-	<b>287.784</b>	-	-	<b>14.327</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Non Recurring Cost</b>																		
JSAM RW - Oxygen Kit	-	-	0.000	2.539	2,063	5.237	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Non Recurring Cost</b>	-	-	<b>0.000</b>	-	-	<b>5.237</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Subtotal: Hardware Cost</b>	-	-	<b>287.784</b>	-	-	<b>19.564</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
JSAM RW - Logistics Support	-	-	0.000	-	-	0.685	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JI0002 / Joint Service Aircrew Mask (JSAM)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
JSAM RW - Config Mgmt/Tech Manuals	-	-	0.000	-	-	0.030	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSAM SA - M69 - Training and Support Equipment	-	-	0.000	-	-	0.048	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSAM SA - M69 - New Equipment Training	-	-	0.000	-	-	0.128	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.891</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.891</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Support Cost</b>																		
JSAM RW - Program Management	-	-	0.000	-	-	1.749	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSAM SA - M69 - Program Management	-	-	0.000	-	-	0.061	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>1.810</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>287.784</b>	-	-	<b>22.265</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

**Remarks:**

The JSAM for Rotary Wing (JSAM RW - MPU-5) aircraft will provide head, eye, respiratory, and CB protection and "don-in-flight" capability for general purpose, rotary wing aircrew in all four services and the US Coast Guard.

The JSAM for Strategic Aircraft (JSAM SA - M69) will provide CB protection for aircrew positions that only need pressure breathing for altitude and will provide flame resistance.

Justification: No FY25 funds requested.

(t) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> JI0002 / Joint Service Aircrew Mask (JSAM)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
JSAM RW - MPU-5 Hardware - FRP		2022	AVOX Systems Inc. / Lancaster, NY	C / FFP	ACC, APG, MD	Feb 2022 <sup>(23)</sup>	Jan 2023	4,502	3.763			
JSAM RW - MPU-5 Hardware - FRP		2023	AVOX Systems Inc. / Lancaster, NY	C / FFP	ACC, APG, MD	May 2023 <sup>(24)</sup>	Aug 2024	3,258	3.943	Y		

**Footnotes:**

<sup>(23)</sup> (Delivery Order)

<sup>(24)</sup> (Delivery Order)



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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JI0003 / Joint Service General Purpose Mask (JSGPM)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		814.045	3.875	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		814.045	3.875	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>814.045</b>	<b>3.875</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	814.045	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Production Acceptance Test	-	-	0.000	-	-	0.168	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Engineering Support	-	-	0.000	-	-	2.347	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>814.045</i>	-	-	<i>2.515</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>814.045</i>	-	-	<i>2.515</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Package Fielding Cost</b>																		
Recurring Cost																		
Fielding Support (TPF, First Destination Transportation & NET)	-	-	0.000	-	-	0.703	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.703</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Package Fielding Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.703</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Support Cost</b>																		
Program Management	-	-	0.000	-	-	0.657	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.657</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Gross/Weapon System Cost</b>	-	-	<b>814.045</b>	-	-	<b>3.875</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JI0003 / Joint Service General Purpose Mask (JSGPM)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<p><b>Remarks:</b>                  The Joint Service General Purpose Mask (JSGPM) family of systems provides lightweight, protective Nuclear Biological Chemical (NBC) mask system. It incorporates state-of-the-art technology to protect the United States Joint Forces from anticipated threats. The JSGPM provides above-the-neck, head/eye/respiratory protection against Chemical and Biological (CB) agents, radioactive particles, and Toxic Industrial Materials (TIMs). The mask design is optimized to minimize impact on the wearer's performance, and to maximize its ability to interface with fielded and future Joint Service equipment and protective clothing. The M53A1 is the National Institute for Occupational Safety and Health (NIOSH) certified variant approved for both military and domestic response missions.</p> <p>Notes: FY23 is the last year of funding.</p> <p>Justification: No FY25 funds requested.</p>		

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**Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program** **Date:** March 2024

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> MA0400 / Protective Clothing (JSLIST)
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**ID Code** (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,182.944	2.000	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,182.944	2.000	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>1,182.944</b>	<b>2.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Non Recurring Cost																		
Prior/Future combined efforts	-	-	1,182.944	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
JSLIST Suits	-	-	0.000	0.477	4,125	1.966	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>1,182.944</i>	-	-	<i>1.966</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<b>Subtotal: Hardware Cost</b>	-	-	<b>1,182.944</b>	-	-	<b>1.966</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Support Cost</b>																		
JSLIST Lot Presentation	-	-	0.000	-	-	0.034	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Support Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.034</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>1,182.944</b>	-	-	<b>2.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

**Remarks:**

The Joint Service Lightweight Integrated Suit Technology (JSLIST) is a Joint Service chemical protective ensemble and production program. The protective clothing program provides service members with Chemical and Biological (CB) protection in all combat theaters. The JSLIST provides state-of-the-art chemical percutaneous protection as well as reduced heat stress, weight and bulk with increased durability and improved fit over fielded legacy systems. In addition, the JSLIST provides commonality and standardization by fielding the same suit to the Joint Forces.

Notes: FY23 includes a Congressional Increase of \$2.0 Million.

Justification: No FY25 funds requested.

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM036 / Modernization Protection Collective Protection (MODPROT CP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		0.456	1.385	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		0.456	1.385	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>0.456</b>	<b>1.385</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
Non Recurring Cost																		
Prior/Future combined efforts	-	-	0.456	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Filter Development, Testing, and Verification	-	-	0.000	-	-	0.460	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>0.456</i>	-	-	<i>0.460</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware Cost</i>	-	-	<b>0.456</b>	-	-	<b>0.460</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Logistics Cost</b>																		
Recurring Cost																		
Engineering/ Logistics/ IPT Support	-	-	0.000	-	-	0.832	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.832</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Logistics Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.832</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Support Cost</b>																		
Program Management	-	-	0.000	-	-	0.093	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	<b>0.000</b>	-	-	<b>0.093</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Gross/Weapon System Cost</b>	-	-	<b>0.456</b>	-	-	<b>1.385</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

**Remarks:**

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM036 / Modernization Protection Collective Protection (MODPROT CP)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>	
<p>The Modernization Protection Collective Protection (MODPROT CP) project leverages mature technology from contractor developed components to reduce logistics costs and minimizes supply chain shortages by addressing obsolete components of various fielded collective protection systems. The current portfolio will be replaced by a single M18A2 filter and a single M13A2 GPFU to be a Universal Vehicle Filtration System that will reduce logistical complexity, reduce new item procurement cost, and reduce system sustainment costs.</p> <p>Justification: No FY25 funds requested.</p>		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JP1111 / Joint Expeditionary Collective Protection (JECP)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A				<b>MDAP/MAIS Code:</b>			
Resource Summary		Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		122.214	29.295	0.000	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		122.214	29.295	0.000	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>		<b>122.214</b>	<b>29.295</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Hardware Cost</b>																		
<b>Recurring Cost</b>																		
Prior/Future combined efforts	-	-	118.079	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
TENT KIT-1 <sup>(†)</sup>	255.917	12	3.071	114.667	6	0.688	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
TENT KIT-3 <sup>(†)</sup>	266.000	4	1.064	171.500	2	0.343	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Engineer Changes/ Modifications	-	-	0.000	-	-	5.477	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
Systems Engineering, Logistics, IPT Support	-	-	0.000	-	-	4.480	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Recurring Cost</b>	-	-	<b>122.214</b>	-	-	<b>10.988</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Non Recurring Cost</b>																		
Spares	-	-	0.000	-	-	0.276	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Non Recurring Cost</b>	-	-	<b>0.000</b>	-	-	<b>0.276</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Subtotal: Hardware Cost</b>	-	-	<b>122.214</b>	-	-	<b>11.264</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>
<b>Package Fielding Cost</b>																		
<b>Recurring Cost</b>																		
Training / Fielding / CLS	-	-	0.000	-	-	10.678	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Subtotal: Recurring Cost</b>	-	-	<b>0.000</b>	-	-	<b>10.678</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>0.000</b>

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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> JP1111 / Joint Expeditionary Collective Protection (JECP)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Package Fielding Cost</i>	-	-	0.000	-	-	10.678	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Logistics Cost</b>																		
<b>Recurring Cost</b>																		
Technical Data	-	-	0.000	-	-	0.600	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.600	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Logistics Cost</i>	-	-	0.000	-	-	0.600	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Support Cost</b>																		
Program Management and Support	-	-	0.000	-	-	6.753	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support Cost</i>	-	-	0.000	-	-	6.753	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	122.214	-	-	29.295	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000

**Remarks:**

The Joint Expeditionary Collective Protection (JECP) is a new capability which provides the Joint Expeditionary Forces (JEFs) a Collective Protection (CP) capability which is lightweight, compact, modular, and affordable. The JEFs are required to operate for extended periods in austere environments and possibly contaminated environments. The JECP Family of Systems (FoS) include tent kits, structure kits, and standalone shelters that allow the application of CP to transportable soft-side shelters, enclosed spaces of opportunity, and remote austere locations as a standalone resource. JECP is capable of protecting personnel groups of varying size, unencumbered by Individual Protective Equipment (IPE), from effects of Chemical and Biological (CB) agents, Radiological (R) particles, Toxic Industrial Materials (TIMs), heat, dust, and sand.

Notes: Unit costs for JECP are dependent on the number and type of variant procured.

Justification: No FY25 funds requested.

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> JP1111 / Joint Expeditionary Collective Protection (JECP)				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
TENT KIT-1		2022	Leidos / Abingdon, MD	C / FFP	ACC-APG, Natick, MA	Jul 2022 <sup>(25)</sup>	Jul 2024	12	255.917	Y		
TENT KIT-1		2023	Leidos / Abingdon, MD	C / FFP	ACC-APG, Natick, MA	Mar 2023 <sup>(26)</sup>	Oct 2024	6	114.667	Y		
TENT KIT-3		2022	Leidos / Abingdon, MD	C / FFP	ACC-APG, Natick, MA	Jul 2022 <sup>(27)</sup>	Jul 2024	4	266.000	Y		
TENT KIT-3		2023	Leidos / Abingdon, MD	C / FFP	ACC-APG, Natick, MA	Mar 2023 <sup>(28)</sup>	Oct 2024	2	171.500	Y		

**Footnotes:**

<sup>(25)</sup> Option

<sup>(26)</sup> Option

<sup>(27)</sup> Option

<sup>(28)</sup> Option



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<b>Exhibit P-5, Cost Analysis: PB 2025 Chemical and Biological Defense Program</b>		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM046 / Non Medical Personal Protective Equipment (NON MED PPE)

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	60.000	26.000	0.000	26.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	60.000	26.000	0.000	26.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>0.000</b>	<b>0.000</b>	<b>60.000</b>	<b>26.000</b>	<b>0.000</b>	<b>26.000</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2023</b>			<b>FY 2024</b>			<b>FY 2025 Base</b>			<b>FY 2025 OCO</b>			<b>FY 2025 Total</b>		
	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>	<b>Unit Cost (\$ K)</b>	<b>Qty (Each)</b>	<b>Total Cost (\$ M)</b>
<b>Hardware Cost</b>																		
Recurring Cost																		
Prior/Future combined efforts	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
N95 Industrial Masks (3 pack) <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.006	3,332,891	20.350	0.006	1,393,059	8.637	-	-	0.000	0.006	1,393,059	8.637
Barrier Masks (10 pack) <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.007	3,672,065	24.965	0.007	1,576,714	11.037	-	-	0.000	0.007	1,576,714	11.037
Hand Sanitizer (2 pack) <sup>(†)</sup>	-	-	0.000	-	-	0.000	0.013	574,237	7.185	0.011	284,028	3.076	-	-	0.000	0.011	284,028	3.076
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>52.500</i>	-	-	<i>22.750</i>	-	-	<i>0.000</i>	-	-	<i>22.750</i>
<i>Subtotal: Hardware Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>52.500</i>	-	-	<i>22.750</i>	-	-	<i>0.000</i>	-	-	<i>22.750</i>
<b>Logistics Cost</b>																		
Recurring Cost																		
Logistics, Engineering, IPT Support	-	-	0.000	-	-	0.000	-	-	3.600	-	-	1.560	-	-	0.000	-	-	1.560
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>3.600</i>	-	-	<i>1.560</i>	-	-	<i>0.000</i>	-	-	<i>1.560</i>
<i>Subtotal: Logistics Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>3.600</i>	-	-	<i>1.560</i>	-	-	<i>0.000</i>	-	-	<i>1.560</i>
<b>Support Cost</b>																		
Program Management Support	-	-	0.000	-	-	0.000	-	-	3.900	-	-	1.690	-	-	0.000	-	-	1.690
<i>Subtotal: Support Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>3.900</i>	-	-	<i>1.690</i>	-	-	<i>0.000</i>	-	-	<i>1.690</i>

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<b>Exhibit P-5, Cost Analysis:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM046 / Non Medical Personal Protective Equipment (NON MED PPE)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	60.000	-	-	26.000	-	-	0.000	-	-	26.000

**Remarks:**

The Non Medical Personal Protective Equipment (NON MED PPE) program will procure commercial off-the-shelf (COTS) equipment to allow the Operational Force to maintain a 90-day contingency supply of non-medical PPE. The COTS purchases will consist of N95 industrial masks, barrier masks, and hand sanitizer.

Notes: NON MED PPE includes investment to advance the overarching goals aligned with the 2022 National Biodefense Strategy and Implementation Plan (NBS).

Justification: FY25 funds procure 1,393,059 packs of N95 industrial masks, 1,576,714 packs of barrier masks, and 284,028 packs of hand sanitizer in support of the 2022 National Biodefense Strategy and Implementation Plan (NBS).

(t) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2025 Chemical and Biological Defense Program							<b>Date:</b> March 2024					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1			<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation				<b>Item Number / Title [DODIC]:</b> PHM046 / Non Medical Personal Protective Equipment (NON MED PPE)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
N95 Industrial Masks (3 pack) <sup>(†)</sup>		2024	TBD / N/A	TBD	TBD	Apr 2024 <sup>(29)</sup>	Oct 2024	3,332,891	0.006	Y		
N95 Industrial Masks (3 pack) <sup>(†)</sup>		2025	TBD / N/A	TBD	TBD	Apr 2025 <sup>(30)</sup>	Oct 2025	1,393,059	0.006	Y		
Barrier Masks (10 pack) <sup>(†)</sup>		2024	TBD / N/A	TBD	TBD	Apr 2024 <sup>(31)</sup>	Oct 2024	3,672,065	0.007	Y		
Barrier Masks (10 pack) <sup>(†)</sup>		2025	TBD / N/A	TBD	TBD	Apr 2025 <sup>(32)</sup>	Oct 2025	1,576,714	0.007	Y		
Hand Sanitizer (2 pack)		2024	TBD / N/A	TBD	TBD	Apr 2024 <sup>(33)</sup>	Oct 2024	574,237	0.013	Y		
Hand Sanitizer (2 pack)		2025	TBD / N/A	TBD	TBD	Apr 2025 <sup>(34)</sup>	Oct 2025	284,028	0.011	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

- <sup>(29)</sup> (Delivery Order)
- <sup>(30)</sup> (Delivery Order)
- <sup>(31)</sup> (Delivery Order)
- <sup>(32)</sup> (Delivery Order)
- <sup>(33)</sup> (Delivery Order)
- <sup>(34)</sup> (Delivery Order)



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<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1		<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation
		<b>Item Number / Title [DODIC]:</b> PHM046 / Non Medical Personal Protective Equipment (NON MED PPE)

Cost Elements <i>(Units in Millions, * = &lt; 500)</i>						Fiscal Year 2026													Fiscal Year 2027													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
N95 Industrial Masks (3 pack)																																	
	1	2024	CBDP	3.333	3.333	.000																								.000			
			NAVY	.022	.022	.000																								.000			
			ARMY	.090	.090	.000																								.000			
			MC	.001	.001	.000																								.000			
			AF	3.220	3.220	.000																								.000			
	1	2025	CBDP	1.393	.000	1.393	.176	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.111	.000			
			ARMY	1.003	.000	1.003	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.084	.000			
			MC	*	.000	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	.000				
			AF	.198	.000	.198	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.016	.000				
			ARMY : ANG	.127	.000	.127	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.011	.000				
			NAVY	.065	.000	.065	.065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
Barrier Masks (10 pack)																																	
	2	2024	CBDP	3.672	3.672	.000																							.000				
			ARMY	.136	.136	.000																							.000				
			ARMY : ANG	.092	.092	.000																							.000				
			NAVY	.189	.189	.000																							.000				
			AF	3.220	3.220	.000																							.000				
			MC	.035	.035	.000																							.000				
	2	2025	CBDP	1.577	.000	1.577	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.129	.157	.000				
			MC	.028	.000	.028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.028	.000				
			ARMY : ANG	.092	.000	.092	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.000					
			ARMY	.861	.000	.861	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.000					
			NAVY	.102	.000	.102	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.008	.000					
			AF	.494	.000	.494	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.041	.000					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule:</b> PB 2025 Chemical and Biological Defense Program		<b>Date:</b> March 2024
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 0300D / 03 / 1	<b>P-1 Line Item Number / Title:</b> 8001PH1000 / CB Protection & Hazard Mitigation	<b>Item Number / Title [DODIC]:</b> PHM046 / Non Medical Personal Protective Equipment (NON MED PPE)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2025	1-8-5 For 2025	MAX For 2025	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - N/A	110,630	277,741	416,611	-	6	6	12	-	6	6	12
2	TBD - N/A	129,050	306,005	459,007	-	6	6	12	-	6	6	12

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).