JPEO-CBRND CAPABILITIES CATALOG

2025

JOINT PROGRAM EXECUTIVE OFFICE FOR CHEMICAL, BIOLOGICAL, RADIOLOGICAL AND NUCLEAR DEFENSE

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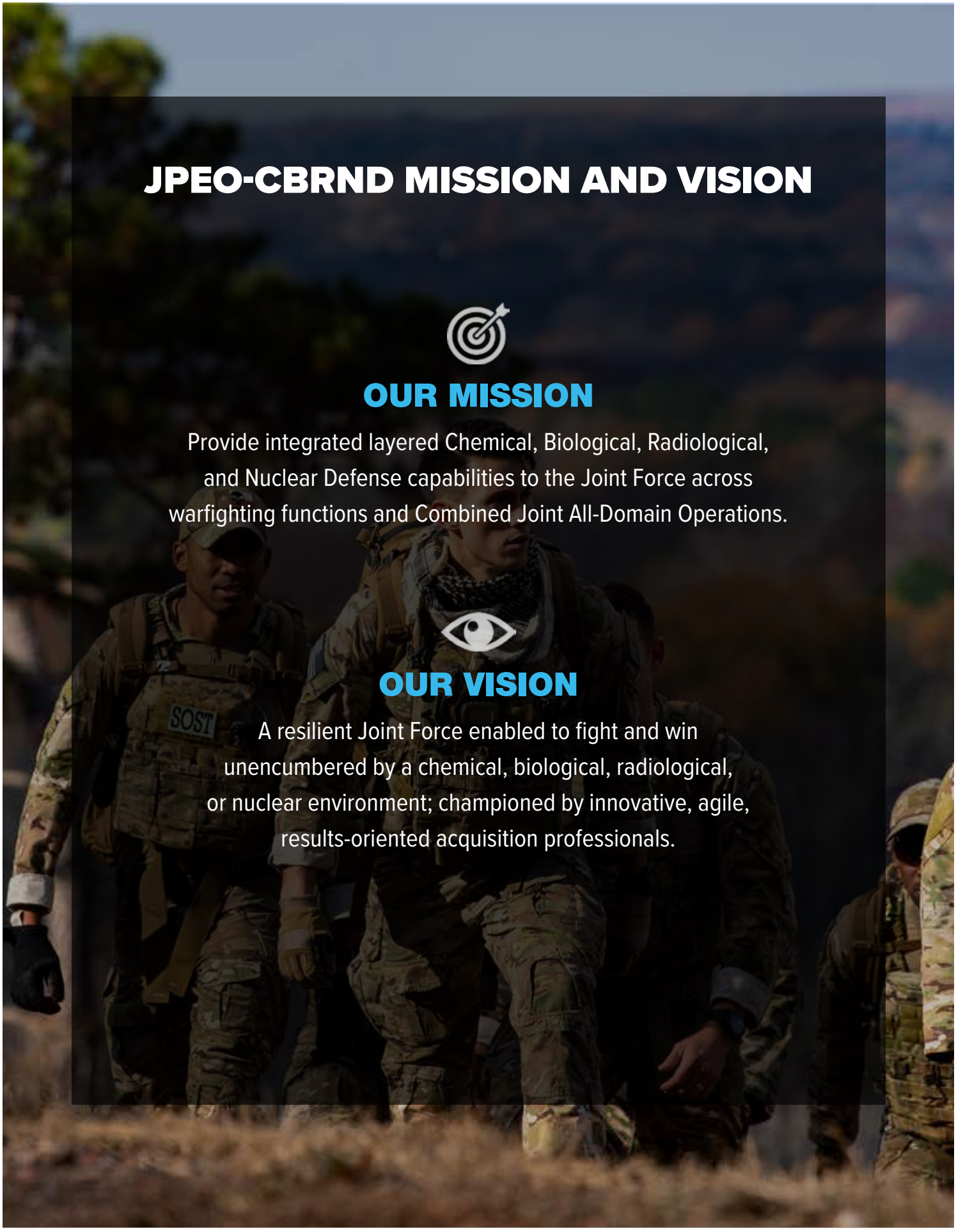


JPEO-CBRND MISSION AND VISION

OUR MISSION

Provide integrated layered Chemical, Biological, Radiological, and Nuclear Defense capabilities to the Joint Force across warfighting functions and Combined Joint All-Domain Operations.

OUR VISION

A resilient Joint Force enabled to fight and win unencumbered by a chemical, biological, radiological, or nuclear environment; championed by innovative, agile, results-oriented acquisition professionals.

A NOTE FROM MR. DARRYL J. COLVIN

The chemical, biological, radiological, and nuclear (CBRN) threats our warfighters face today require us to move faster, deliver at speed, and iteratively improve capabilities over time. To keep pace with the evolving threat environment across all domains—sea, land, air, cyber, and space—we are adapting CBRN defense capabilities to be lighter, more portable, and interoperable with current and future equipment.

Our mission at the JPEO-CBRND is to deliver critical CBRN defense capabilities to the Joint Force. As part of the U.S. Chemical and Biological Defense Program, we lead, manage, and direct the acquisition, fielding, and integration of CBRN capabilities, sensors, protective equipment, and medical countermeasures for combined, Joint All Domain Operations. We also focus on defense-enabling biotechnologies and integration initiatives providing solutions to reduce risk, compress timelines, and improve acquisition outcomes across our entire portfolio.

This past year, we expanded our mission statement to capture our focus on adapting to the Joint Force's needs by delivering capabilities that enable the six warfighting functions. As a component of the Chem-Bio Defense Program, we are developing a system of integrated, layered capabilities under a Capability Portfolio Management approach that allows us to deliver to the warfighter at speed and scale. This approach, in combination with our focus on the Joint Capability Areas of Understand, Protect, Mitigate, and Enable, empowers us to develop holistic systems of capabilities that maintain a decisive edge for the Joint Force.

To deliver on our commitments, we are identifying and leveraging innovative acquisition strategies and flexible, agile approaches to drive continuous progress. Our partnerships with government, academia, industry, and international allies make it possible for us to push the boundaries of innovation.

Through strong partnerships and a steadfast focus on our mission to serve the Joint Force, we will deliver the CBRN defense capabilities needed to fight and win in any denied CBRN environment.

Mr. Darryl J. Colvin
Joint Program Executive Officer for Chemical, Biological, Radiological and Nuclear Defense

The JPEO-CBRND Capabilities Catalog provides an overview of our mission, organization, strategy, and most importantly, the CBRN defense equipment—both in development and enduring—we provide for the Joint Force. I hope it gives you insight into our portfolio and where we plan to go in the future as a JPEO-CBRND team. To connect with us or learn more about our mission or capabilities, I encourage you to reach out using our Joint Enterprise Technology Tool (JETT).

www.jpeocbrnd.osd.mil/Work-With-Us/JETT-Joint-Enterprise-Technology-Tool/

WHERE WE FIT WITHIN THE CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM*

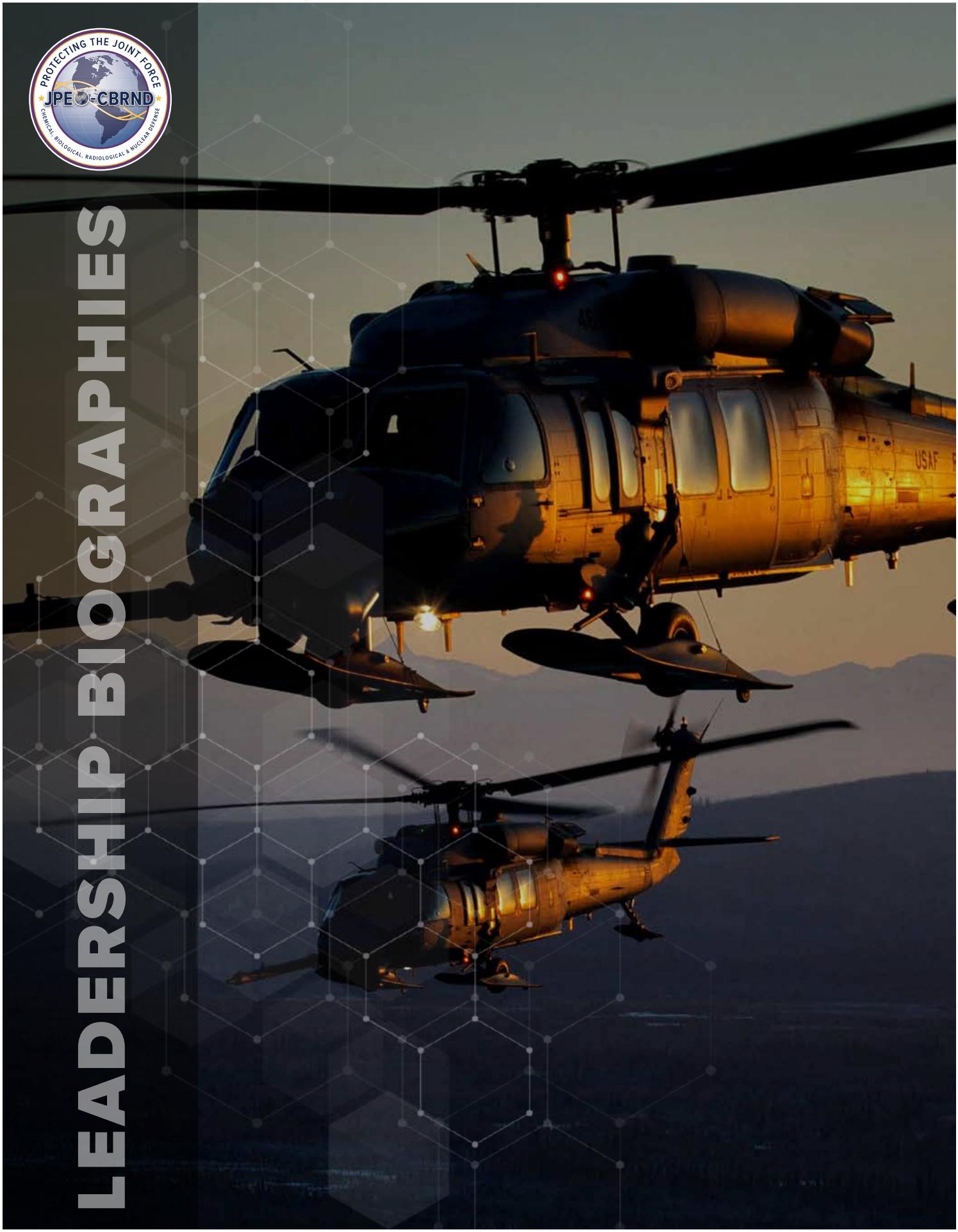
The JPEO-CBRND is one of the four components of the Chemical and Biological Defense Program, which is led by the Deputy Assistant Secretary of Defense for Chemical and Biological Defense. The CBDP consists of the:

- Joint Requirements Office, which develops requirements based on Warfighter needs;
- Joint Science and Technology Office, which conducts basic scientific and technical research;
- JPEO-CBRND, which performs advanced development and acquisition, and;
- CBRND Test and Evaluation Executive, which carries out test and evaluation activities.

While JPEO-CBRND receives guidance and oversight from the Deputy Assistant Secretary of Defense for Chemical, Biological, Radiological and Nuclear Defense Programs, the organization's acquisition authority comes from the Assistant Secretary of the Army for Acquisition, Logistics, and Technology.

*The JPEO-CBRND also receives funding and guidance from the Army, the other Military Services, and/or DASD(TRAC) to support acquisition, fielding, and integration of radiological and nuclear passive defense capabilities for combined, Joint All Domain Operations. Additionally, the JPEO-CBRND may be called upon to support DOD and/or interagency efforts to prepare for, respond to, and recover from biological incidents.

LEADERSHIP BIOGRAPHIES



Mr. Darryl Colvin
JOINT PROGRAM EXECUTIVE OFFICER

MR. DARRYL COLVIN

Mr. Darryl Colvin is the Joint Program Executive Officer for CBRN Defense. In this role, Mr. Colvin leads civilian and military multi-disciplinary teams whose mission is to provide integrated layered CBRN defense capabilities to the Joint Force across warfighting functions and combined Joint All-Domain Operations.

Mr. Colvin was previously Deputy Program Executive Officer (PEO) Missiles and Space; Acting Deputy PEO for Missiles and Space; Acting Deputy PEO Soldier; and Deputy for Acquisition and Systems Management for PEO Missiles and Space. He was also Project Manager Ground-based Midcourse Defense Interceptor for the Missile Defense Agency and Project Manager for the PEO Missiles and Space Lower Tier Project Office.

His prior acquisition assignments include Operations and Integration Officer, Army Tactical Operations Center Product Office; Product Manager for Field Artillery Launchers; Systems Coordinator for Army Tactical Missile System; and Executive Officer to the Deputy for Systems Management, Office of the Assistant Secretary of the Army for Acquisition, Logistics and Technology.

Mr. Colvin was commissioned through the University of Missouri at Rolla ROTC Program and retired as a Lieutenant Colonel after faithfully and proudly serving 20 years active duty to the nation.

Mr. Colvin holds a Bachelor of Science from University of Missouri at Rolla and a Master of Science from Colorado School of Mines. He is a graduate of the Army Command and General Staff College and Senior Service College Fellowship Program.

His civilian and military awards and decorations include the Decoration for Exceptional Civilian Service Award, Superior Civilian Service Award, Commander's Award for Civilian Service, Legion of Merit, Meritorious Service Medal, the Army Commendation Medal, and Army Achievement Medal.

Ms. Nicole Kilgore
DEPUTY JOINT PROGRAM EXECUTIVE OFFICER

MS. NICOLE KILGORE

Ms. Nicole Kilgore is the Deputy Joint Program Executive Officer for CBRN Defense. In this role, she provides leadership, technical, and programmatic direction in support of decisionmaking across the entire portfolio. Most recently, Ms. Kilgore was Acting Deputy JPEO for Assisted Acquisition/ Medical (COVID-19 Response), where she led the DoD's COVID-19 Joint Assisted Acquisition efforts in support of the Department of Health and Human Services.

Ms. Kilgore brings over 31 years of combined industry and civilian service experience to her role. She was previously Deputy Joint Project Manager (JPM) for CBRN Medical where she provided overall direction and guidance for the Medical Portfolio. Prior positions at JPM CBRN Medical included Chief of Staff; Joint Product Lead of Platforms for Rapid Integrated Solutions for Medical Countermeasures; Joint Product Manager, Joint Vaccine Acquisition Program; Primary Manager, Filovirus Vaccine Program; and Science Manager, Medical Identification and Treatment Systems. She served as Acting Medical Director, Office of Deputy Assistant Secretary of Defense for Chemical and Biological Defense. Prior to joining the Department of Defense, Ms. Kilgore was Senior Manager of Virology and Safety Operations for Panacos Pharmaceuticals.

Ms. Kilgore holds a Bachelor of Science from Mount Saint Mary's College, a Master of Science from Hood College, and a Master of Science from National Defense University. She attended the Defense Acquisition University's Advanced Program Management Course and Advanced Leadership Course at the Army Management Staff College.

Ms. Kilgore is a member of the Army Acquisition Corps, DAWIA Level III certified in Program Management, and a Project Management Professional. Her awards include the Commander's Award for Civilian Service, Excellence in Federal Career Award, and Superior Civilian Service Award.

Mr. Gordon Graham
CHIEF OF STAFF

MR. GORDON GRAHAM

Mr. Gordon Graham is the Chief of Staff for the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND). In this role, he provides expertise in acquisition, budget, program management, and directorate staff management. Mr. Graham works across functional areas to build consensus and ensure JPEO-CBRND programs have the resources required to support delivery of CBRN defense capabilities to the Warfighter and the nation.

Mr. Graham's work experience includes 35 years of combined logistics, acquisition and program management experience gained during active duty and civilian service. He was commissioned from the Reserve Officer Training Corps at The University of North Carolina Wilmington in 1988. He was a Distinguished Military Graduate and received a Bachelor of Arts in Psychology. Mr. Graham also holds a Master of Science in General Administration from Central Michigan University and a Master of Arts in Procurement and Acquisition Management from Webster University. His military education includes the Ordnance Officers' Basic Course, the Combined Logistics Officers' Advanced Course, the U.S. Navy Explosive Ordnance Disposal (EOD) Course, the Combined Arms and Services Staff School Course, Army Command and General Staff College, and Defense Systems Management College Program Manager's Course. He is currently Advanced (Level III) certified in Program Management.

Mr. Graham's military awards include the Legion of Merit Medal & Award presented at his retirement. Other awards include the Bronze Star, Defense Meritorious Service Medal (two oak leaf clusters), Army Meritorious Service Medal (three oak leaf clusters), Army Commendation Medal (four oak leaf clusters), Army Achievement Medal (two oak leaf clusters), Army Basic Airborne and EOD Badges, and Office of the Secretary of Defense Staff Badge.

Mr. Wyatt Ulrich
DIRECTOR FOR ACQUISITION & SYSTEMS MANAGEMENT

MR. WYATT ULRICH

Mr. Wyatt Ulrich is the Director for Acquisition and Systems Management (DASM) for the JPEO-CBRND, serving as a key senior advisor to improve acquisition rigor and discipline across the JPEO-CBRND's acquisition portfolio. In this role, Mr. Ulrich oversees and implements acquisition policy within the JPEO-CBRND and supports the JPMs and JPLs as they prepare for milestone decisions while bringing together multi-functional teams from across the JPEO-CBRND to resolve issues and challenges prior to a milestone decision. Mr. Ulrich leverages over 26 years of experience in strategy, analysis, and evaluation of DOD and CBRN Defense programs to integrate acquisition activities at the portfolio level, and coordinate and communicate with senior acquisition leaders across the JPEO, Army, the Office of the Secretary of Defense, and other CBRN Defense stakeholders.

Most recently, he served as the Director of CBRN Analytics for the JPEO-CBRND, where he led a diverse team in the performance of activities to implement portfolio insight efforts across the JPEO-CBRND. He led the action steps and created the overarching vision and establishment of time phased milestones for JPEO implementation of its data management activities, Army Acquisition Reform initiatives, advanced analytics, and adoption of a continuous and persistent portfolio insight process. Mr. Ulrich holds a Master's in Operations Research from the George Washington University and a Bachelor of Science from Towson University. He is a certified Program Manager (PM) Level IV (Advanced) and has received the Department of Army Superior Civilian Service Award and Commander's Award for Civilian Service.

Ms. Rachel Overman
JOINT WARFIGHTER CONCEPT INTEGRATOR

MS. RACHEL OVERMAN

Ms. Rachel Overman is the Joint Warfighter Concept Integrator for the JPEO-CBRND. In this role, she serves as an advisor to JPEO-CBRND senior leaders across the portfolio on requirements generation and synchronization with acquisition processes. She also conducts strategic analysis to better understand portfolio alignment and gaps and interfaces with whole-of-government counterparts to ensure JPEO capabilities meet the needs of the Joint Force and support the National Defense Strategy. Prior to her current role, Ms. Overman served as the Deputy Product Manager for Biological Defense Pharmaceuticals within the Joint Project Manager for CBRN Medical.

Ms. Overman has held many programmatic roles within the Department of Defense, from engineer to Assistant Project Manager, up to Product Manager, as well as working for the Assistant Secretary of the Army (Acquisition, Logistics and Technology) at Headquarters as a Department of the Army Systems Coordinator for ACAT I programs, Defense Business systems, and Medical Programs for the U.S. Army. She has experience working for many Program Executive Offices and Commands including the U.S. Special Operations Command, PEO Simulation, Training and Instrumentation, PEO Enterprise Information Systems, and the PEO Command, Control, Communications, Computers and Intelligence. Ms. Overman holds a Bachelor of Science degree in Computer Engineering from the University of Central Florida and a Master of Science degree in Program Management from the University of Maryland. She is also a graduate of the U.S. Army Competitive Development Group/Army Acquisition Fellowship, a member of the Army Acquisition Corp, and is Level III certified in Program Management and Engineering.

JOINT PROJECT MANAGER (JPM) AND JOINT PROJECT LEAD (JPL) DESCRIPTIONS

JPM CBRN PROTECTION

JPM CBRN Protection develops, fields and sustains CBRN protection and mitigation capabilities for the warfighter and the Nation. They develop next-generation physical protection capabilities, like masks and suits, that reduce physiological burden and enhance protection against CBRN threats. JPM CBRN Protection also develops contamination mitigation technologies, including decontamination systems, to significantly decrease the time and materials required to decontaminate personnel and equipment.

JPM CBRN MEDICAL

JPM CBRN Medical facilitates the advanced development and acquisition of medical solutions, such as nerve agent antidotes and diagnostic systems, to combat CBRN threats. They deliver safe, effective, and affordable medical solutions to counter threats and enable the Joint Force to fight and win in any denied environment. JPM CBRN Medical products span the continuum of medical care, providing an integrated layered medical defense, to include prevention, diagnosis, and treatment.

JPM CBRN SENSORS

JPM CBRN Sensors develops, fields and sustains CBRN sensors, reconnaissance systems, and mobile laboratory capabilities. They provide integrated early warning by bringing together the products in their portfolio along with robotics and autonomous systems, decision support tools, machine learning and artificial intelligence to provide situational awareness and understanding of CBRN threats.

JPM CBRN SPECIAL OPERATIONS

JPM CBRN SOF rapidly acquires and equips Special Operations and Special Purpose Forces with critical CBRN defense equipment necessary for mission success. Their focus is to further develop crucial technologies necessary for survival and unimpeded operations in denied CBRN environments. These technologies are transitioned to other Programs of Record as appropriate to enhance the capability of the Joint Force.

JPL CBRN INTEGRATION

JPL CBRN Integration is responsible for the total lifecycle of enterprise information technology systems and provides enterprise-wide CBRN threat warning and reporting, hazard prediction, and decision support capabilities for the collection, analysis, and dissemination of CBRN defense information. These capabilities provide commanders with more complete situational understanding of all the threats in the battlespace by integrating CBRN defense systems with traditional defense systems.

JPL CBRND ENABLING BIOTECHNOLOGIES

JPL CBRND Enabling Biotechnologies enables the rapid development, manufacture, and fielding of safe and effective medical solutions across the full product spectrum, including development, clinical trials, manufacturing, and validated biological threat detection materials. These solutions support programs across the JPEO-CBRND portfolio by lowering product development risks and accelerating product maturity.

JPEO-CBRND ORGANIZATION LEADERSHIP

JPEO
Mr. Darryl Colvin

Deputy JPEO
Ms. Nicole Kilgore

Chief of Staff
Mr. Gordon Graham

Director for Acquisition & Systems Management
Mr. Wyatt Ulrich

Joint Warfighter Concept Integrator
Ms. Rachel Overman

Joint Project Managers (JPM)

JPM CBRN Protection
Mr. Steven Batts

JPM CBRN Medical
COL John Nuckols

JPM CBRN Sensors
Mr. Timothy Tharp

Acting JPM CBRN Special Operations Forces
Ms. Deborah Olson

Joint Project Leads (JPL)

JPL CBRN Integration
Mr. Paul Gietka

JPL CBRND Enabling Biotechnologies
Mr. Bruce Goodwin

JPEO-CBRND STRATEGIC GOALS

STRATEGIC GOAL 1

Achieve CBRN Defense integration, interoperability, and interdependence across all warfighting domains and functions.

STRATEGIC GOAL 2

Foster an environment that seeks innovative enterprise solutions across industry, academia, and warfighters that is agile, versatile and efficient.

STRATEGIC GOAL 3

Provide indispensable value to the warfighter, DoD, Congress, the Nation and our allies/partners.

JPEO-CBRND CORE VALUES

UNCOMPROMISING INTEGRITY

Perform your work to the highest standard. Be honest and transparent, even when it's difficult. Be accountable for your words and your actions. Choose to do what's right every time.

COMMITTED TO EXCELLENCE

Our Warfighters deserve the best we can deliver, so strive for greatness in all your work. Keep your mind open to new and different ways of doing things. Be willing to accept feedback and seek opportunities to learn and improve.

RESPECT FOR ALL

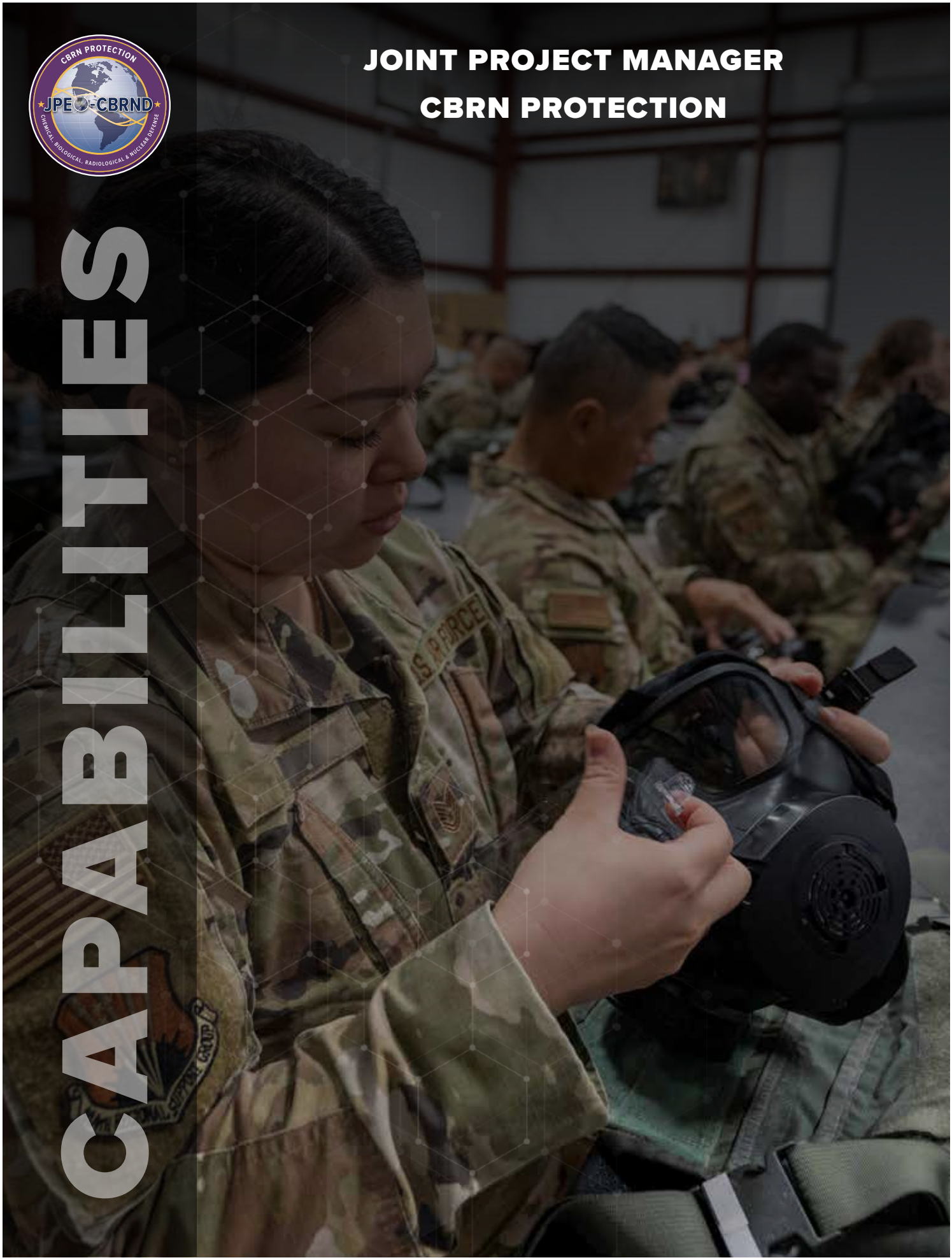
Each member of the JPEO family has their own values, experiences, and identities. Take that into consideration in all your interactions. Treat yourself and others with dignity and fairness.

ALWAYS READY

No matter what challenges we face, always be ready to adapt and respond. We can accomplish anything when we work as a team.

JOINT PROJECT MANAGER
CBRN PROTECTION

CAPABILITIES



JPM CBRN PROTECTION

Advanced System for Protection and Integrated Reduction of Encumbrances (ASPIRE)

Description: Advanced System for Protection and Integrated Reduction of Encumbrances (ASPIRE) allows near normal operations in a Chemical and Biological (CB) environment by minimizing or eliminating physical and psychological burden and increasing warfighter lethality.

Benefits to Warfighter: ASPIRE benefits the warfighter by providing respiratory and ocular protection against CB threats.

Contractor(s):

- ADVANCED TECHNOLOGY INTERNATIONAL (Prime)

Program Status:

FY25: Complete program closeout activities and transition key products as needed.

Projected Activities:

N/A

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

Advanced System for Protection and Integration Reduction of Encumbrances - Enhanced Biological Defense (ASPIRE-ENBD)

Description: ASPIRE-ENBD will support unencumbering warfighters and revolutionizing respiratory and ocular protection against Biological threats, including protection from biological and other unanticipated threats.

Benefits to Warfighter: ASPIRE-ENBD benefits the warfighter by providing a revolutionized capability to the Services for the next generation of respiratory and ocular protection by developing and assessing bio half-mask prototypes that are low-burden, provide protection against bio threats, and are designed as a reusable system with modularity and/or scalability for additional ocular protection.

Contractor(s):

N/A

Program Status:

FY25: Complete program closeout activities and transition key products as needed.

Projected Activities:

N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

JPM CBRN PROTECTION

Autonomous Decontamination System (ADS)

Description: ADS provides a semi-autonomous supported capability that relies on precision detection capabilities, modernized decontaminants, and robotics to allow a Chemical and Biological (CB) decontamination squad to provide platoon level thorough decontamination on critical mission equipment.

Benefits to Warfighter: ADS benefits the warfighter by mitigating the risk of exposure of warfighters to chemical agents by accomplishing mitigation tasks through robotic means.

Contractor(s):
N/A

Program Status:
- FY25: Milestone A

Projected Activities:
- FY27: Milestone B
- FY29: Milestone C

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Technology Maturation & Risk Reduction (TMRR)

Biological Containment Isolation System - Enhanced Biological Defense (BCIS-ENBD)

Description: Biological Containment Isolation System - Enhanced Biological Defense (BCIS-ENBD) will provide a negative pressure shelter system for medical treatment of biologically contaminated patients in a field hospital environment.

Benefits to Warfighter: BCIS-ENBD benefits the warfighter by providing a ground-based isolation area for personnel infected or suspected of infection from a biological threat and allows medical staff to monitor and/or treat while decreasing the risk of infecting other patients and staff.

Contractor(s):
N/A

Program Status:
FY25: Complete program closeout activities and transition key products as needed.

Projected Activities:
N/A

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

JPM CBRN PROTECTION

Chemically Protected Deployable Medical System (CP DEPMEDS)

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Operations & Support (O&S)

Description: Chemically Protected Deployable Medical System (CP DEPMEDS) procures equipment that provides chemical and biological protection to US Army field hospitals.

Benefits to Warfighter: CP DEPMEDS benefits the warfighter by providing Army field hospitals with the capability to sustain continuous medical operations in Chemical and Biological (CB) environments. Unencumbered by Individual Protective Equipment (IPE) for medical personnel and patients.

Contractor(s):
- MJL ENTERPRISES, LLC (Prime)

Program Status:
N/A

Projected Activities:
N/A

Decontamination Family of Systems Contamination Indicator Decontamination Assurance System Nerve (DFoS CIDAS Nerve)

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Description: DFoS CIDAS Nerve will provide the Joint Forces with the capability to increase decontamination efficiency and reduce the logistics burden of decontamination by visually indicating presence and location of traditional Nerve and non-traditional chemical agents on relevant surfaces pre- and post-decontamination.

Benefits to Warfighter: DFoS CIDAS Nerve benefits the warfighter by increasing decontamination efficiency and reducing the logistics burden of decontamination by indicating presence and location of chemical agents on surfaces pre- and post-decontamination.

Contractor(s):
- FLIR Detection, Inc. (Prime)

Program Status:
N/A

Projected Activities:
- FY25: Initial Operational Capability
- FY28: Full Operational Capability

JPM CBRN PROTECTION

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Joint Expeditionary Collective Protection (JECP)

Description: Joint Expeditionary Collective Protection (JECP) is a family of systems that will allow the application of Collective Protection to transportable soft-side shelters, enclosed spaces of opportunity, and in remote austere locations as a standalone resource.

Benefits to Warfighter: JECP benefits the warfighter by providing a family of systems that protects personnel and infrastructure from chemical, biological, and toxic industrial material contamination on the battlefield and during military operations.

Contractor(s):
- LEIDOS, INC. (Prime)
- PRODUCTION PRODUCTS MANUFACTURING & SALES CO., INC. (Prime)

Program Status:
N/A

Projected Activities:
- FY25: Initial Operational Capability
- FY30: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Joint Service Aircrew Mask Rotary Wing (JSAM RW)

Description: Joint Service Aircrew Mask Rotary Wing (JSAM RW) variant provides head, eye, respiratory and Chemical and Biological (CB) protection for general purpose rotary wing aircrew.

Benefits to Warfighter: JSAM RW benefits the warfighter by providing the capability to being donned and doffed while in flight, enabling Warfighters to survive and maintain operations in a chemical and biological threat environment.

Contractor(s):
- AVOX SYSTEMS INC (Prime)

Program Status:
N/A

Projected Activities:
- FY25: Full Operational Capability

JPM CBRN PROTECTION

Next Generation Individual Protection (Next-Gen IP)

Description: Next-Gen IP aims to deliver a scalable, modular, and upgradable platform that provides the Joint Force improved protection against chemical, biological, and radiological threats. The platform-centric approach aims to deliver a flexible and adaptable solution that integrates emerging materials and technologies to meet evolving operational needs while prioritizing mobility, comfort, and logistical sustainability.

Benefit to Warfighter: The Next-Gen IP platform will serve as the foundation for protective ensembles, enabling rapid prototyping, testing, and deployment of solutions that address immediate readiness concerns. The modular design will support incremental upgrades and interoperability with existing protective equipment, ensuring long-term adaptability and mission effectiveness.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
- FY26: New Start Program

AAF Pathway:
Middle Tier of Acquisition Rapid Prototyping

Acquisition Category:
-

Acquisition Phase:
-

Non Medical Personal Protective Equipment (NON MED PPE)

Description: Non Medical Personal Protective Equipment (NON MED PPE) will procure commercial off-the-shelf (COTS) equipment.

Benefits to Warfighter: NON MED PPE program benefits the warfighter by allowing the Operational Force to maintain a 90-day contingency supply of non-medical PPE.

Contractor(s):
- ATLANTIC DIVING SUPPLY, INC. (Prime)

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Portable Patient Transport System - Enhanced Biological Defense (PPTS-ENBD)

Description: Portable Patient Transport System - Enhanced Biological Defense (PPTS-ENBD) will provide a biocontainment isolation system to safely transport personnel infected or suspected of infection.

Benefits to Warfighter: PPTS-ENBD benefits the warfighter by providing a means to safely transport asymptomatic, infected, or symptomatic patients with known or suspected exposure to contagious and infectious diseases while protecting transport vehicles and support personnel.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
- FY25: Milestone B
- FY27: Milestone C

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

JPM CBRN PROTECTION

Service Equipment Decontamination System (SEDS)

Description: SEDS consists of two efforts, Joint SEDS and Special Operations Forces (SOF) Critical Equipment Decontamination System (CEDS), which will develop reliable and modular hardware intended to decontaminate military equipment in operational environments, including personal effects and weapons, to pre-contamination conditions.

Benefits to Warfighter: SEDS benefits the warfighter by providing contamination mitigation capabilities for critical equipment 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.

Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL
- Integrated Solutions for Systems (IS4S)

Program Status:
- FY23: Milestone B

Projected Activities:
- FY26: Milestone C
- FY29: Initial Operational Capability
- FY30: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Shipboard Isolation System (SIS)

Description: Shipboard Isolation System (SIS) will provide the capability to temporarily isolate or quarantine personnel to prevent the spread of a biological threat. SIS will be used on multiple Navy ship classes.

Benefits to Warfighter: SIS benefits the warfighter by containing and medically monitoring/treating patients while protecting embarked crew and personnel.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
- FY25: Milestone B
- FY28: Milestone C

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

JPM CBRN PROTECTION

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Technology Maturation & Risk Reduction (TMRR)

Tactical Contamination Mitigation System (TCMS)

Description: Tactical Contamination Mitigation System (TCMS) will provide a forward deployed contamination mitigation capability (decontaminant and applicator) that allows expeditious execution of decontamination that results in Mission Oriented Protective Posture (MOPP) reduction/removal.

Benefits to Warfighter: TCMS benefits the warfighter by mitigating risk to personnel by limiting the potential spread of Chemical and Biological (CB) contamination allowing warfighters to continue their mission for an extended period in a high threat, CB contaminated environment and eliminate the need for subsequent decontamination to mitigate contamination on military equipment and allow continuation of mission at a high tempo.

Contractor(s):
- Clear Scientific
- Integrated Solutions for Systems (IS4S)

Program Status:
- FY21: Milestone A
- FY23: Milestone B

Projected Activities:
- FY26: Milestone C
- FY29: Initial Operational Capability
- FY30: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Uniform Integrated Protection Ensemble Family of Systems Air (UIPE FoS Air)

Description: Uniform Integrated Protection Ensemble Family of Systems (UIPE FoS) Air will provide the warfighter percutaneous protection from operationally relevant traditional and non-traditional Chemical and Biological (CB) threats.

Benefits to Warfighter: UIPE FoS Air benefits the warfighter by providing improved aircrew performance and survivability under CB conditions by reducing thermal burden and bulk, while increasing mobility and resulting in an increase operational effectiveness.

Contractor(s):
- READYONE INDUSTRIES INC (Prime)

Program Status:
- FY25: Initial Operational Capability

Projected Activities:
- FY29: Full Operational Capability

JPM CBRN PROTECTION

Uniform Integrated Protection Ensemble Family of Systems General Purpose (UIPE FoS GP)

Description: UIPE FoS GP is part of a family of systems that will give the warfighter percutaneous protection from operationally relevant traditional, non-traditional, and advanced Chemical and Biological (CB)/Toxic Industrial Material (TIM) threats likely to be encountered during joint force operations.

Benefits to Warfighter: UIPE FoS GP benefits the warfighter by providing percutaneous protection and improved capabilities of CB protection; flame resistance; and improvements in thermal burden, mobility, comfort, ease of use and interoperability.

Contractor(s):
- SOURCEAMERICA (Prime)
- READYONE INDUSTRIES, INC.

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT II

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Program Status:
- FY25: Complete program closeout activities and prepare for transition to successor program Next Generation Individual Protection

Projected Activities:
- FY26: Program succeeded by Next Generation Individual Protection (see page 19) New Start Program

Uniform Integrated Protection Ensemble Family of Systems Gloves (UIPE FoS Gloves)

Description: Uniform Integrated Protection 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 and Biological (CB) threats.

Benefits to Warfighter: UIPE FoS Gloves benefits the warfighter by providing protective gloves that include touchscreen interoperability, increased tactility and dexterity, and flame resistance compared to legacy systems.

Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

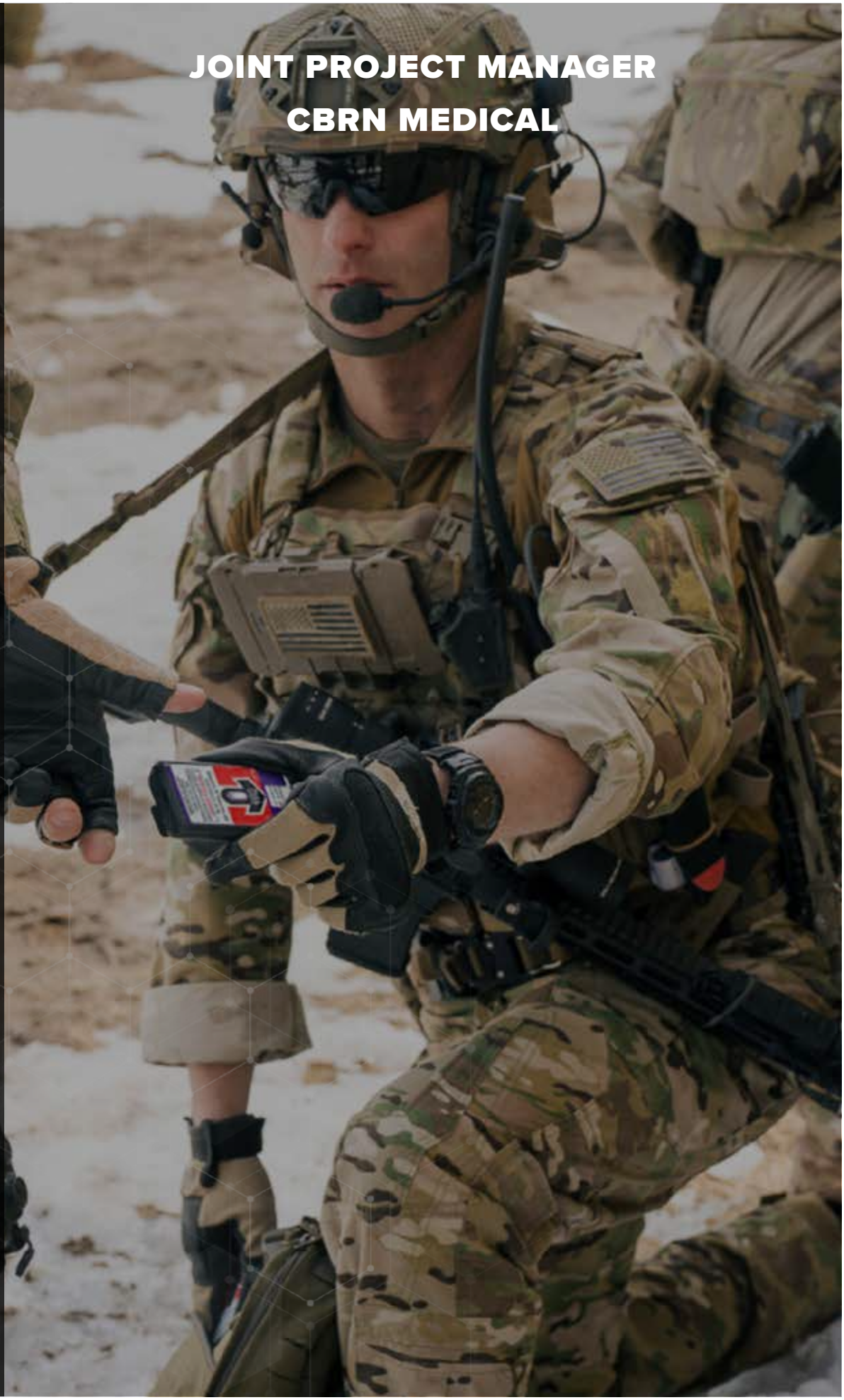
Acquisition Phase:
Production & Deployment (P&D)

Program Status:
- FY25: Milestone C

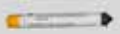
Projected Activities:
- FY34: Initial Operational Capability
- FY43: Full Operational Capability

JOINT PROJECT MANAGER CBRN MEDICAL

CAPABILITIES



JPM CBRN MEDICAL



Advanced Anticonvulsant System (AAS)

Description: Advanced Anticonvulsant System (AAS) advanced development treats seizures including those caused by exposure to nerve agents via intramuscular injection of midazolam in an autoinjector.

Benefits to Warfighter: AAS is an improved therapeutic regimen utilizing midazolam administered in an autoinjector. Midazolam is more water-soluble and stops seizures, including those triggered by nerve agent exposure, faster than diazepam which is contained in the currently fielded Convulsant Antidote Nerve Agent (CANA) autoinjector.

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Contractor(s):
- RAFA LABORATORIES LTD. (Prime)

Program Status:
- FY24: Initial Operational Capability

Projected Activities:
- FY25: Full Operational Capability

Advanced Differential Diagnostics (ADD)

Description: Advanced Differential Diagnostics (ADD) will provide the capability to perform presumptive disease classification and differentiation of unknown biological threats, during early stages of illness, suitable for use at the lowest Roles of Care.

Benefits to Warfighter: ADD benefits the warfighter by providing timely feedback for early medical intervention in operational environments by determining the nature of infection in symptomatic patients, identifying warfighters who may be infectious, and assessing severity in early stages of illness.

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Technology Maturation & Risk Reduction (TMRR)

Contractor(s):
- BIOMEME, INC.
- CEPHEID
- INFLAMMATIX, INC.

Program Status:
- FY24: Milestone A

Projected Activities:
- FY26: Milestone B
- FY29: Milestone C

JPM CBRN MEDICAL

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

Antiviral Oral Therapeutics Program (AVO TX)

Description: Antiviral Oral Therapeutic (AVO TX) will develop and deliver Food and Drug Administration (FDA) approved oral broad spectrum antiviral therapeutic for the warfighter.

Benefits to Warfighter: The AVO TX product is a treatment for the warfighter exposed to or infected with alphavirus infection. This product is lifesaving to the warfighter and provides warfighters with the ability to return to the fight.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
- FY25: Milestone B
- FY29: Milestone C

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Antiviral Therapeutics (AV TX)

Description: Antiviral Therapeutics (AV TX) will provide a broad-spectrum antiviral therapeutic to treat against Marburg virus and other filoviruses.

Benefits to Warfighter: The AV TX program delivers non-clinical data to determine the human effective dose (HED) and drug activity in the body to update the clinical summary that informs the Clinical Practice Guidelines (CPG) for use of Remdesivir as a treatment against MARV and SUDV infections. Additionally, this product provides lifesaving capabilities for use as a PAN-FILO treatment.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
N/A

JPM CBRN MEDICAL

Botulinum Monoclonal Antibodies (BOT MAB)

Description: Botulinum Monoclonal Antibodies (BOT MAB) will counter exposure to Botulinum neurotoxin serotypes A and B utilizing advanced platform technologies.

Benefits to Warfighter: BOT MAB benefits the warfighter by providing the warfighter protection from botulism toxin to preserve combat power.

Contractor(s):

- RESILIENCE GOVERNMENT SERVICES, INC. (Prime)
- ADVANCED TECHNOLOGY INTERNATIONAL

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT II

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Botulinum Toxin Therapeutic (BOT TX)

Description: Botulinum Toxin Therapeutic (BOT TX) will develop and deliver a Food and Drug Administration (FDA)-approved treatment for the warfighter to treat respiratory depression caused by botulinum toxin exposure.

Benefits to Warfighter: BOT TX benefits the warfighter by providing treatment for intoxication with Botulinum Toxin A.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:

- FY26: Milestone A
- FY28: Milestone B
- FY30: Milestone C

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

JPM CBRN MEDICAL

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Countering Emerging Threats Rapid Acquisition and Investigation of Drugs for Repurposing (CET RAIDR)

Description: CET RAIDR uses nonclinical safety/efficacy model studies to evaluate Food and Drug Administration (FDA)-approved and/or late stage products to repurpose Chemical and Biological (CB) Medical Countermeasures (MCM) toward known, potential, and emerging threats.

Benefits to Warfighter: CET RAIDR delivers interim capabilities to bridge the gap until targeted FDA-approved countermeasures are available. CET RAIDR informs Clinical Practice Guidelines (CPG) and/or prepositioning for early access or future development encompassing up to two therapeutics each year over the POM in alignment with the medical architecture. Rapid repurposing provides both broad spectrum protection and additional response time following exposure for Warfighter protection.

Contractor(s):
- BATTELLE MEMORIAL INSTITUTE
- EPISTEMIC AI INC
- THE ULTRAN GROUP, INC.

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Improved Nerve Agent Treatment System Centrally Acting (INATS CA)

Description: Improved Nerve Agent Treatment System Centrally Acting (INATS CA) advanced development provides an enhanced capability treatment regimen offering greater protection over a broader spectrum of toxic nerve agents and improves the performance of fielded Food and Drug Administration (FDA) approved Medical Countermeasures (MCM).

Benefits to Warfighter: INATS CA Increases therapeutic efficacy of countermeasures over atropine alone, especially in brain tissue; reducing the logistical burden for additional atropine and offering greater protection over a broader spectrum of toxic nerve agent threats, such as Fourth Generation Agents (FGA). Soman Nerve Agent Pre-Treatment Pyridostigmine (SNAPP) modernization benefits the warfighter by increasing compliance and operational utility as well as providing a Pyridostigmine Bromide Extended Release (PB ER) formulation for protection against toxic nerve agent threats.

Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL (Prime)

Program Status:
- FY25: Complete program closeout activities and transition key products to Rapid Access to Products in Development (RAPID) program

Projected Activities:
N/A

JPM CBRN MEDICAL

Modernization Medical (MOD MED)

Description: Modernization Medical (MOD MED) supports improvements to fielded systems and supports post-fielding Food and Drug Administration (FDA) requirements for devices and combination products.

Benefits to Warfighter: MOD MED benefits the warfighter by preventing premature capability loss through maintenance of cybersecurity controls and FDA compliance, refreshing obsolescing capabilities, and executing preplanned product improvements to fielded platforms.

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Contractor(s):

- BIOFIRE DEFENSE LLC (Prime)
- Meridian Medical Technologies Inc. (Prime)
- BIOFIRE DEFENSE LLC

Program Status:
N/A

Projected Activities:
N/A

Next Generation Diagnostics System 2 Chemical Diagnostics (NGDS 2 CHEMDX)

Description: Next Generation Diagnostic System 2 - Chemical Diagnostics (NGDS 2 ChemDx) will provide far-forward, immediate medical diagnostic capability for suspected nerve agent exposure.

Benefits to Warfighter: NGDS 2 ChemDX provides the far-forward warfighter with the immediate capability to inform diagnosis of potential NA exposure, including non-traditional agents, before outward symptoms are present. The NGDS 2 ChemDX benefits the warfighter by providing the capability to inform treatment and medical care, and the Commander's force protection decisions, thereby increasing overall likelihood of individual and unit survival.

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Contractor(s):

- ADVANCED TECHNOLOGY INTERNATIONAL

Program Status:
N/A

Projected Activities:

- FY26: Milestone C
- FY28: Initial Operational Capability
- FY29: Full Operational Capability

JPM CBRN MEDICAL

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Next Generation Diagnostics System 2 Man Portable Diagnostic System (NGDS 2 MPDS)

Description: Next Generation Diagnostic System 2 Man Portable Diagnostic System (NGDS 2 MPDS) is a portable diagnostic device and assays to diagnose diseases in austere, far-forward environments.

Benefits to Warfighter: NGDS 2 MPDS benefits the warfighter by providing easy to-use tests for earlier patient diagnosis far-forward across the range of military operations, and improve decision support for treatment, and evacuation, and quarantine, in order to help mitigate the effects of exposure to unknown infectious disease and biological agents.

Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL

Program Status:
N/A

Projected Activities:
- FY26: Milestone C

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

Reactivating Nerve Agent Treatment System (RNATS)

Description: Reactivating Nerve Agent Treatment System (RNATS) will develop and deliver a Food and Drug Administration (FDA)-approved improved oxime in a vial for treatment of nerve agent intoxication.

Benefits to Warfighter: A reactivator, like HI-6, is an important therapy that will offer greater survivability over a broad spectrum of nerve agent threats, including emerging chemical threats and fourth generation agents (FGAs).

Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL

Program Status:
- FY25: Complete program closeout activities and transition key products to Rapid Access to Products in Development (RAPID) program

Projected Activities:
N/A

JPM CBRN MEDICAL

Smallpox Antiviral PEP (SPX AV PEP)

Description: Smallpox Antiviral PEP (SPX AV PEP) will expand the scope of the TPOXX product to include post-exposure prophylaxis for smallpox and establish a stockpile of TPOXX for Department of Defense (DoD) use.

Benefits to Warfighter: This effort will complete all required non-clinical and clinical studies necessary to submit a supplemental New Drug Application (sNDA), seeking approval of TPOXX® for PEP to close the "window of vulnerability" by providing a treatment option for smallpox after it is too late for vaccination to be effective, and prior to clinically-evident disease. If needed, the Warfighter will have doses of IV and oral TPOXX immediately ready for distribution.

Contractor(s):

- MURTECH, INC.

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Surveillance and Pathogen Characterization - Enhanced Biological Defense (SPCHAR-ENBD)

Description: SPCHAR-ENBD, through its pathogenicity studies, investigates disease progression and measures biomarkers of selected Chemical and Biological (CB) threat agents, and/or verifies usefulness of models to inform medical defense against biological warfare threats.

Benefits to Warfighter: SPCHAR delivers the necessary assay refinement and validation that is critical for delivery of medical countermeasures to the warfighter.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

JOINT PROJECT MANAGER CBRN SENSORS

CAPABILITIES

JPM CBRN SENSORS

Aerosol Vapor Chemical Agent Detector (AVCAD)

Description: Aerosol Vapor Chemical Agent Detector (AVCAD) is filling critical gaps in current Joint Force chemical sensor capabilities, in the areas of liquid, solid and dusty aerosol Chemical Warfare Agent (CWA) detection, and detection of specific advanced threats/Non-Traditional Agents (NTA).

Benefits to Warfighter: AVCAD benefits the warfighter by providing a man-portable, sensitive aerosol and vapor chemical detection capability.

Contractor(s):
- Smiths Detection Inc. (Prime)

Program Status:
- FY23: Milestone C

Projected Activities:
- FY27: Initial Operational Capability
- FY32: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Analytical Laboratory System Modification (ALS MOD)

Description: ALS MOD is a mobile laboratory system that provides analysis of Chemical and Biological (CB) agents for National Guard Bureau (NGB) Weapons of Mass Destruction Civil Support Teams (WMD CST). It links to local and federal Agencies to help manage and mitigate the effects of a CB and Explosive attack or disaster.

Benefits to Warfighter: ALS MOD benefits the warfighter and contributes to National Security by informing incident commanders with field confirmatory identification of chemical and biological threats. The ALS Increment 1 addresses obsolescence issues and optimizes the ability to analyze data by providing enhanced human factors and engineering controls, a larger shelter and workspace, upgraded software, larger threat databases, and improved process flow integration.

Contractor(s):
N/A

Program Status:
- FY23: Full Operational Capability

Projected Activities:
N/A

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Operations & Support (O&S)

JPM CBRN SENSORS

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT II

Acquisition Phase:
Production & Deployment (P&D)

Chemical Biological Radiological Nuclear Dismounted Reconnaissance Systems (CBRN DRS)

Description: CBRN DRS provides Chemical, Biological, Radiological, Nuclear and Explosive Ordnance Disposal Warfighters with a comprehensive suite of detection, identification, protection, sample collection, hazard marking, decon, and support capabilities during dismounted reconnaissance, sensitive site assessment and render safe mission.

Benefits to Warfighter: CBRN DRS benefits the warfighter by providing a comprehensive, all-hazards dismounted reconnaissance and site assessment capability to protect against, detect, and decontaminate chemical warfare agents, biological warfare agents, toxic industrial chemicals, and other hazards.

Contractor(s):
N/A

Program Status:
- FY23: Full Operational Capability
- FY25: Full Operational Capability

Projected Activities:
- FY25: Initial Operational Capability
- FY30: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

Colorimetric Indicator (CIND)

Description: Colorimetric Indicator (CIND) provides detection and classification capabilities with increased confidence for traditional, advanced and emerging chemical hazards that can be widely distributed across the General Forces.

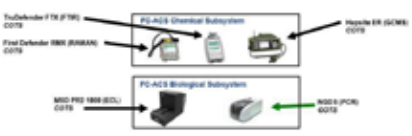
Benefits to Warfighter: CIND benefits the warfighter by providing a low-cost, easy to use, higher confidence liquid, solid and vapor hazard detection capabilities for traditional, not traditional, pharmaceutical based, emerging chemical and toxin hazards.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
- FY26: Milestone A
- FY27: Milestone B

JPM CBRN SENSORS



Common Analytical Laboratory System Field Confirmatory Analytical Capability Set (CALS FC ACS)

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Description: CALS FC ACS is a man portable system that contains a suite of Chem and Bio Commercial and Government-off-the-Shelf detectors to support Department of Defense field analytic units. FC ACS will support Commanders or local authorities for protection, treatment, decontamination and for planning of future operations and missions

Benefits to Warfighter: CALS FC ACS benefits the warfighter and is a matter of National Security by providing the capability to rapidly develop a common operating picture which assists commanders or the local authority in determining the appropriate course of action when managing and mitigating the effects of chemical/biological attacks or disasters.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
- FY26: Initial Operational Capability
- FY27: Full Operational Capability

CVCAD (alpha prototypes)

FLIR N5

Compact Vapor Chemical Agent Detector (CVCAD)

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Description: Compact Vapor Chemical Agent Detector (CVCAD) is a man-worn, mounted, or unmanned robotic capability for the detection of chemical hazards.

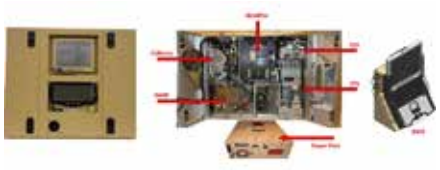
Benefits to Warfighter: CVCAD benefits the warfighter by providing a person worn chemical vapor detector alerting to the presence of chemical vapor hazards to inform command level decision making while executing the mission and support protective posture.

Contractor(s):
- FLIR DETECTION, INC.
- N5 Sensors, Inc

Program Status:
- FY24: Milestone B

Projected Activities:
- FY26: Milestone C
- FY27: Milestone C
- FY32: Initial Operational Capability
- FY38: Full Operational Capability

JPM CBRN SENSORS



Enhanced Maritime Biological Detection (EMBD)

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Description: EMBD is a technology refresh to the Navy's Joint Biological Point Detection System (JBPDS). It provides an automated biological detection capability to detect, collect & identify biological warfare agents and improved detection capability while increasing reliability and maintainability and lowering support costs.

Benefits to Warfighter: EMBD benefits the warfighter by providing the Navy a "detect to inform" capability using advanced and highly discriminative biological detection, collection, and identification capabilities reducing the number of contaminated ships and minimizing casualties.

Contractor(s):
- Chemring Sensors and Electronic Systems, Inc. (Prime)

Program Status:
- FY23: Initial Operational Capability

Projected Activities:
- FY28: Full Operational Capability

Joint Biological Tactical Detection System (JBTDS)

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT II

Acquisition Phase:
Production & Deployment (P&D)

Description: Joint Biological Tactical Detection System (JBTDS) provides the Joint Warfighter detection, collection, and identification capability of Biological Warfare Agent (BWA) aerosols to enhance battle space awareness, protect and preserve the forces, and support time sensitive force protection decisions.

Benefits to Warfighter: JBTDS benefits the warfighter by providing the ability to detect, collect, and identify Biological Warfare Agent (BWA) aerosols by allowing additional time to make decisions and take action to prevent or reduce the risk of exposure.

Contractor(s):
- CHEMRING SENSORS AND ELECTRONIC SYSTEMS, INC. (Prime)

Program Status:
- FY23: Milestone C

Projected Activities:
- FY30: Initial Operational Capability
- FY33: Full Operational Capability

JPM CBRN SENSORS

Joint Personal Dosimeter-Individual (JPD-I)

Description: Joint Personal Dosimeter-Individual (JPD-I) is intended to replace Department of Defense's (DoD) legacy dosimeters. JPD-I will provide a sensor to record and retrieve a service member's radiation exposure from occupational to tactical levels.

Benefits to Warfighter: JPD-I benefits the warfighter by supporting radiological defense missions, including the ability to detect and track the accumulated total dose an individual receives from ionizing radiation.

Contractor(s):
- MIRION TECHNOLOGIES (CANBERRA), INC. (Prime)

Program Status:
- FY23: Initial Operational Capability

Projected Activities:
- FY32: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Man-portable Radiological Detection System (MRDS)

Description: MRDS increases capabilities to detect, localize, presumptively identify, and field-confirm the presence of Special Nuclear Material. It is networked to provide near real-time, tactical level situational awareness during real world Countering Weapons of Mass Destruction Interdiction and Elimination operations.

Benefits to Warfighter: MRDS benefits the warfighter by providing increased RN capabilities in an uncertain and rapidly changing mission space in which RN dangers increase in both scope, variety of RN weapons, and scale due to the behavior of multiple networks of actors who seek, possess and proliferate RN materials.

Contractor(s):
- INTERFUZE CORPORATION (Prime)
- LEIDOS, INC. (Prime)

Program Status:
N/A

Projected Activities:
- FY26: Initial Operational Capability
- FY31: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

JPM CBRN SENSORS

Non-targeted Sequencing Identification System (NSIS)

Description: Non-Targeted Sequencing Identification System (NSIS) provides a rapid biological sequencing capability to identify known, emerging, engineered, or enhanced biological warfare agents (BWA).

Benefits to Warfighter: NSIS provides the ability to identify emerging, engineered, or novel pathogens, adding additional biological identification capability for the Joint Force. Genomic sequencing has traditionally been a fixed-laboratory capability, requiring the End User to send a physical sample back to CONUS for definitive analysis. Fieldable sequencing allows the non-technical End User to conduct untargeted analysis on-site to provide actionable intelligence to the Commander at the speed of relevance.

Contractor(s):
N/A

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Materiel Solution Analysis (MSA)

Program Status:
N/A

Projected Activities:
- FY26: Milestone C

Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU)

Description: Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade (NBCRV SSU) provides maneuver formations the ability to conduct mounted reconnaissance and surveillance missions of Chemical, Biological, Radiological, and Nuclear named areas of interest.

Benefits to Warfighter: NBCRV SSU benefits the warfighter by modernizing NBCRV to: keep soldiers out of CBRN threats and provide decision-quality data to inform Commanders. SSU is a key aspect of the Transformation in Contact Human-Machine Integrated Formations (TiC HMIF) strategy by employing Chemical, Biological, Radiological, and Nuclear (CBRN) sensors on Unmanned Aircraft Vehicle (UAVs) and fielding to the unit driving HMIF Force Design Updates. SSU is a mission critical element of Secretary of Defense (SECDEF) priorities to support Border activities and Nuclear modernization, as SSU can be positioned at the border for surveillance of CBRN threats without entering the threat.

Contractor(s):
- TELEDYNE FLIR DETECTION, INC. (Prime)
- TELEDYNE FLIR DETECTION, INC.
- L2 Defense, Inc.

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT II

Acquisition Phase:
Production & Deployment (P&D)

Program Status:
N/A

Projected Activities:
- FY28: Initial Operational Capability
- FY42: Full Operational Capability

JPM CBRN SENSORS

Radio Isotope Identification Detector (RIID)

Description: Radioisotope Identification Detector (RIID) is a family of handheld, ruggedized, and networked RIIDs that use different Commercial Off-the-Shelf (COTS) technologies to locate, identify, and characterize radiological and nuclear material, including special nuclear materials.

Benefits to Warfighter: RIID benefits the warfighter by identifying special nuclear materials and other radioisotopes of concern to the Department of Defense faster, providing more rapid results to the warfighter than its predecessors.

Contractor(s):
- SYMETRICA INC. (Prime)

Program Status:
N/A

Projected Activities:
- FY27: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Radiological Detection System (RDS)

Description: Radiological Detection System (RDS) provides a standard Department of Defense (DoD) RDS that will replace the current radiation detection, indication, and computation systems used by the Joint Services and consolidate the capabilities into one joint solution.

Benefits to Warfighter: RDS benefits the warfighter by providing a common Joint capability to detect, identify, and compute total exposure to multiple radiation types, and reduces the acquisition as well as sustainment costs across the Joint Services by taking advantage of economies of scale.

Contractor(s):
- LUDLUM MEASUREMENTS, INC. (Prime)
- Visionary Products Inc. (Prime)

Program Status:
- FY23: Milestone C

Projected Activities:
N/A

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

JPM CBRN SENSORS

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

Screening Obscuration Module (SOM)

Description: Screening Obscuration Module (SOM) is a modular medium-area and duration screening obscuration capability that is located at the small element level of conventional force units and is employed at the tactical in a mounted or dismounted configuration.

Benefits to Warfighter: SOM benefits the warfighter by degrading adversaries' ability to detect targets thus increasing soldier and platform survivability. SOM supports future initiatives which include Human-Machine Integrated Formations (HMIF) and Transformation in Contact (TiC). SOM supports the SECDEF priorities, specifically by providing a UAS countermeasure capability for the Warfighter.

Contractor(s):
- L3HARRIS TECHNOLOGIES, INC. (Prime)

Program Status:
N/A

Projected Activities:
- FY25: Initial Operational Capability
- FY25: Full Operational Capability

JOINT PROJECT MANAGER
CBRN SPECIAL OPERATIONS FORCES

CAPABILITIES

JPM CBRN SPECIAL OPERATIONS FORCES

Critical Equipment Decontamination System (CEDS)

Description: Critical Equipment Decontamination System (CEDS) will provide the capability to rapidly decontaminate hazardous agents from critical operational equipment to a level that allows re-use and without wearing protective equipment to quickly re-equip the force.

Benefits to Warfighter: Provides transportable system variants with the capability to rapidly decontaminate CB agents from critical operational equipment to a level that allows re-use and without wearing protective equipment to quickly re-equip the force maximizing tactical flexibility and fighting strength.

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL (Prime)
- MRIGLOBAL (Prime)

Program Status:
- FY24: Milestone B

Projected Activities:
- FY25: Milestone C
- FY27: Initial Operational Capability
- FY28: Full Operational Capability

Far Forward Biological Sequencing (FFBS)

Description: FFBS system is a rapid handheld biological sequencing device that will identify Biological Warfare Agents (BWA) to include emerging or engineered biological weapons/ threats on or near the objective. It will provide far-forward Special Operations Forces (SOF) and SOF Task Forces the detect-to-inform capability.

Benefits to Warfighter: FFBS benefits the warfighter by providing near-real time identification of BWAs, to decrease the tactical decision timeline from weeks to hours, significantly increasing the situational awareness of biological threats to Special Operations Forces (SOF) operating in a far-forward environment and enabling Commanders real-time tactical decision-making.

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Engineering & Manufacturing Development (EMD)

Contractor(s):
- SIGNATURE SCIENCE LLC (Prime)

Program Status:
- FY24: Milestone B

Projected Activities:
- FY26: Milestone C
- FY27: Initial Operational Capability
- FY28: Full Operational Capability

JPM CBRN SPECIAL OPERATIONS FORCES

Forward Area Mobility Spray System (FAMS-S)

Description: Forward Area Mobility Spray System (FAMS-S) will provide Special Operations Forces (SOF) and SOF Task Forces a man-portable and mobile platform capable of rapidly decontaminating hazardous agents from the various vehicles or support equipment.

Benefits to Warfighter: FAMS-S benefits the warfighter by maximizing tactical flexibility and fighting strength while minimizing the logistical burden and cost of conducting real world and CB operations

Contractor(s):

- ADVANCED TECHNOLOGY INTERNATIONAL

Program Status:

- FY23: Milestone C

Projected Activities:

- FY26: Initial Operational Capability
- FY29: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT IV

Acquisition Phase:
Production & Deployment (P&D)

Tactical Advanced Threat Protective Ensemble (TATPE)

Description: Tactical Advanced Threat Protective Ensemble (TATPE) will bridge the gap between current military agent protective ensembles and tactical assault suits by providing increased protection on the battlefield applied against specific real world crisis response mission executions.

Benefits to Warfighter: TATPE benefits the warfighter by bridging the gap between current military Chemical and Biological (CB) protective ensembles and tactical assault suits by providing increased protection on the battlefield applied against specific crisis response mission executions.

Contractor(s):

- ATLANTIC DIVING SUPPLY, INC. (Prime)

Program Status:

- FY24: Initial Operational Capability

Projected Activities:

- FY27: Full Operational Capability

AAF Pathway:
Major Capability Acquisition (MCA)

Acquisition Category:
ACAT III

Acquisition Phase:
Production & Deployment (P&D)

JPM CBRN SPECIAL OPERATIONS FORCES

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Wearable All-hazard Remote-monitoring Program (WARP)

Description: WARP will provide wearable / attachable sensors to collect, transmit, and integrate information about the Chemical and Biological (CB) operational environment, disposition of warfighters, and key mission status to provide real-time tactical data to leaders and facilitate unit readiness post mission.

Benefits to Warfighter: Real-time physiological and environmental monitoring increases operational mission effectiveness by allowing commanders to be aware of hazards at the earliest opportunity and reduce the strain on each warfighter.

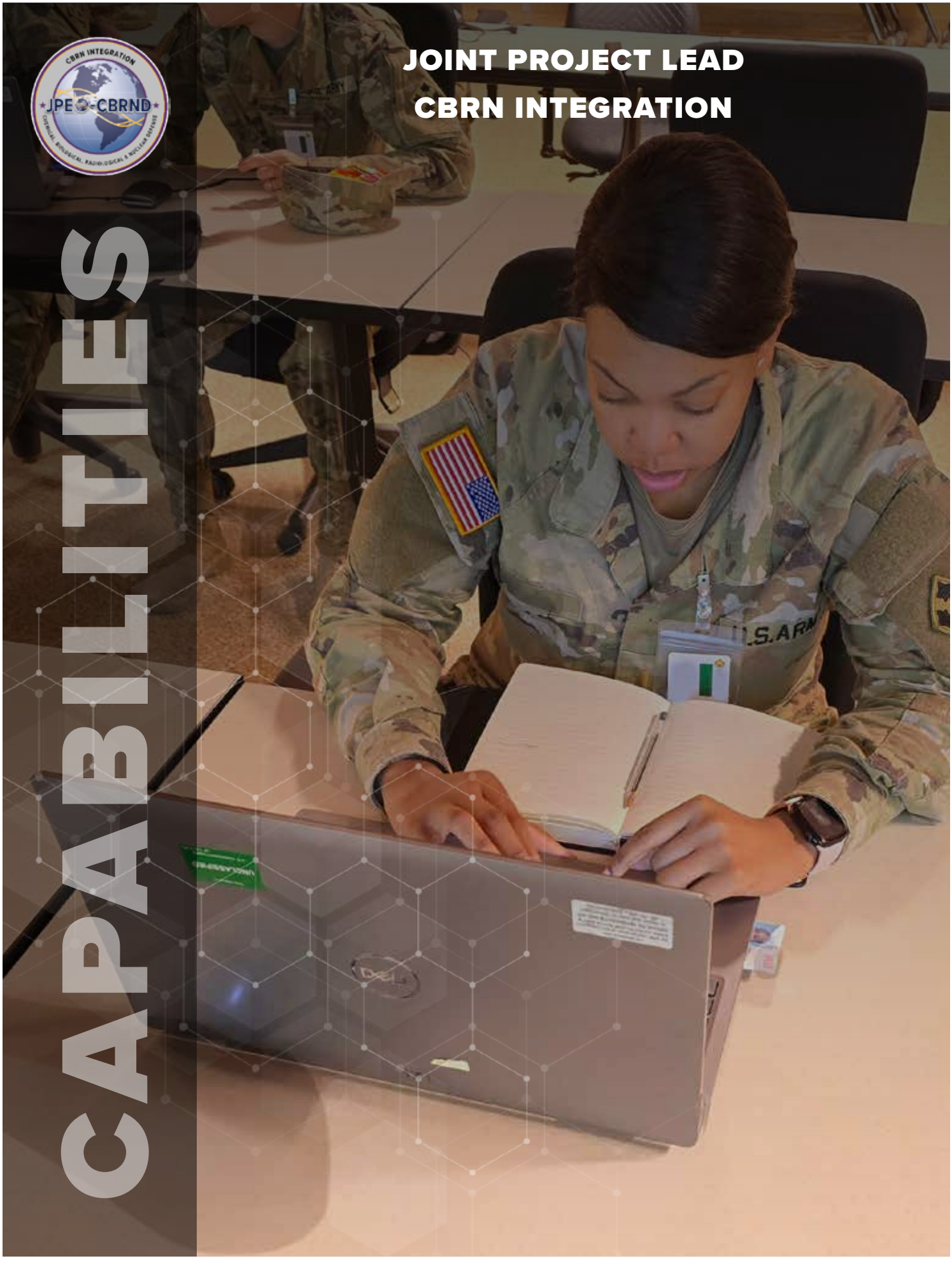
Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL

Program Status:
N/A

Projected Activities:
- FY27: Initial Operational Capability
- FY28: Full Operational Capability

JOINT PROJECT LEAD
CBRN INTEGRATION

CAPABILITIES



JPL CBRN INTEGRATION

AAF Pathway:
Software Acquisition (SWP)

Acquisition Category:
Non-Major SWP

Acquisition Phase:
Execution (Execution)

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

Description: CSC2 provides the enablement of situational awareness and C2 to continue military operations in actual or threatened Chemical, Biological, Radiological, and Nuclear (CBRN) environments and includes shaping and prevention, CBRN hazard and attack analysis, network integration, and decision support.

Benefits to Warfighter: - Integrates CBRN sensor data & information into a common architecture
- Allows for a near plug-and-play capability for integration of CBRN data into Service's Computing Environments
- Provides initial suite of decision support applications for accelerated decision making, automated CBRN hazard warning and reporting, and fusion with non-CBRN data
- Artificial Intelligence (AI)/ Machine Learning (ML) analytics reduce false alarm rates and increase confidence
- Common CBRN User Interface (UI) that reduces training and logistics burden

Contractor(s):
- ADVANCED TECHNOLOGY INTERNATIONAL
- VECTRUS SYSTEMS CORPORATION
- DCS CORPORATION

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Joint Acquisition Chemical Biological Knowledge System Defense Business System (JACKS DBS)

Description: Joint Acquisition Chemical Biological Radiological Nuclear Knowledge System Defense Business System (JACKS DBS) provides information related to the acquisition and support of Chemical and Biological (CB) Defense products and programs.

Benefits to Warfighter: Centralized tool for authoritative Chemical and Biological Defense Program (CBDP) information. Provides CBRN product information, training, visualization, and reporting to all Services, other government agencies, and foreign partners.

Provides oversight and automates business processes for the Biological Select Agent and Toxins (BSAT) Biorisk Program Office. Tracks BSAT inventory that is stored, maintained, and used by Department of Defense (DOD) BSAT labs.

Contractor(s):
N/A

Program Status:
N/A

Projected Activities:
N/A

JPL CBRN INTEGRATION

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Mobile Field Kit (MFK)

Description: Mobile Field Kit (MFK) provides the National Guard Bureau's (NGB) interim Chemical, Biological, Radiological, and Nuclear (CBRN) Awareness & Understanding capability for the Homeland mission. Functions and features of MFK will be transitioned to CBRN Support to Command and Control to align NGB to Joint Architecture.

Benefits to Warfighter: Baseline operational CBRN Integrated Early Warning capability for the National Guard Bureau in support of the Homeland Defense mission.

Contractor(s):

- ADVANCED TECHNOLOGY INTERNATIONAL (Prime)

Program Status:
N/A

Projected Activities:
N/A

JOINT PROJECT LEAD
CBRND ENABLING BIOTECHNOLOGIES

CAPABILITIES

JPL CBRND ENABLING BIOTECHNOLOGIES

Accelerated Antibodies - Enhanced Biological Defense (AA-ENBD)

Description: AA-ENBD will develop prophylactic and therapeutic monoclonal antibody (mAb) medical countermeasure against a broad range threats. AA-ENBD will target the identification and manufacture of mAbs to support non-clinical and clinical testing and delivery of doses for potential use in emergency response situations.

Benefits to Warfighter: Using the proven mAb platform, Accelerated Antibodies will provide the Warfighter with a portfolio of mAb MCMs through Phase 1 clinical trial. This will provide a response capability, enabling much more rapid fielding for Warfighter protection and treatment.

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Contractor(s):

- IDBiologics, Inc. (Prime)
- JUST-EVOTEC BIOLOGICS, INC. (Prime)
- Mapp Biopharmaceutical, Inc. (Prime)

Program Status:
N/A

Projected Activities:
N/A

Defense Biological Products Assurance Program (DBPAP)

Description: Defense Biological Product Assurance Program (DBPAP) integrates and consolidates Department of Defense (DoD) reagents (i.e., antibodies/antigens) and biological warfare agent (BWA) detection requirements.

Benefits to Warfighter: DBPAP provides a capability for early detection of known and unanticipated biological threats that enables treatment of exposed Warfighters. DBPAp facilitates biodefense assay and reagent requirements to support programs for other US government organizations, including the Department of Homeland Security, US Capitol Police, National Institute of Allergy and Infectious Diseases, and US Secret Service. DBPAP assays are used in DoD and civilian government facilities.

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Contractor(s):

- IDENTRUST SERVICES, LLC (Prime)
- HII MISSION TECHNOLOGIES CORP
- MESO SCALE DIAGNOSTICS LLC
- MRIGLOBAL
- NATIONAL STRATEGIC RESEARCH INSTITUTE
- NOBLIS ESI, LLC

Program Status:
N/A

Projected Activities:
N/A

JPL CBRND ENABLING BIOTECHNOLOGIES

Generative Unconstrained Intelligent Drug Engineering - Enhanced Biological Defense (GUIDE-ENBD)

Description: GUIDE-ENBD is an advanced, integrated computational and experimental platform that accelerates medical countermeasure (MCM) development by harnessing the power of advanced simulation and machine learning to enable reduction of development risk to MCMs, preemptive preparedness and rapid response.

Benefits to Warfighter: GUIDE will accelerate medical countermeasure development and reduce costs by addressing risk across the drug development life cycle. GUIDE enables pre-emptive candidate discovery/design and rapid response to unanticipated and engineered threats to the Warfighter.

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Program Aligns to:
Requirement directed in guidance Enhanced Biodefense and Pandemic Preparedness Strategy (2022)
Goal 1, Objective 2
National Biodefense Strategy & Implementation Plan (2022)
National Defense Strategy (2022)

Contractor(s):
- A-ALPHA BIO INC
- BATTELLE MEMORIAL INSTITUTE

Medical Countermeasures Manufacturing Optimization (MCM MFRO)

Description: Medical Countermeasure Manufacturing Optimization (MCM MFRO) for Biologics shall develop and optimize manufacturing solutions that aim to produce Medical Countermeasures (MCM) suitable to conduct a Phase 1 Clinical Trial within 100 days from threat/pathogen identification.

Benefits to Warfighter: MCM MFRO optimizes manufacturing processes and stabilizes the supply chain for critical drug manufacturing capability. This enables the enterprise to rapidly respond to an emergency and more readily equip the warfighter with relevant drug product to preserve combat power.

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Contractor(s):
- JUST-EVOTEC BIOLOGICS, INC.
- LATHAM BIOPHARM GROUP, INC.

Program Status:
N/A

Projected Activities:
N/A

JPL CBRND ENABLING BIOTECHNOLOGIES

Medical Countermeasures Platform Technologies (MCMPT)

Description: MCMPT will streamline and accelerate medical countermeasure (MCM) delivery to the Warfighter by investing in new platform technologies to improve upon the standard drug discovery, design, manufacture, and testing processes in order to reduce the medical countermeasure development risks to enable rapid response.

Benefits to Warfighter: The MCMPT program will establish platform capabilities that will reduce MCM development risks for vaccines and antibodies. These capabilities can be leveraged to accelerate the MCM development cycle and rapidly deliver products to the Warfighter.

Contractor(s):

- AUTONOMOUS THERAPEUTICS INC
- Houston Methodist Research Institute
- Vanderbilt University

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

Plague Monoclonal Antibodies (PLG MAB)

Description: PLG MAB will provide an anti-plague bacteria monoclonal antibody cocktail that protects against exposure to aerosolized plague (Yersinia pestis). PLG MAB was transitioned from the Medical Countermeasures (MCM) Platform Technologies Advanced Development and Manufacturing of Antibody Technology platform.

Benefits to Warfighter: PLG MAB will provide a pre-exposure prophylactic to counter exposure to aerosolized plague bacteria.

Contractor(s):

- JUST-EVOTEC BIOLOGICS, INC. (Prime)

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

Acquisition Phase:
-

JPL CBRND ENABLING BIOTECHNOLOGIES

Rapid Access to Products in Development (RAPID)

Description: Rapid Access to Products in Development (RAPID) will employ a tiered database of prototype medical countermeasures (MCM), data packages, and MCM doses to enable data-driven decisions on potential use in an emergency or continued development as a Program of Record.

Benefits to Warfighter: RAPID will provide the Warfighter with a broad portfolio of developmental MCMs for use during an emergency response and facilitate advanced development investment decisions.

Contractor(s):

- DARK WOLF SOLUTIONS, LLC
- DynPort Vaccine Company LLC
- FISHER BIOSERVICES INC.
- NOBLIS INC

Program Status:
N/A

Projected Activities:
N/A

AAF Pathway:
Not Applicable (N/A)

Acquisition Category:
-

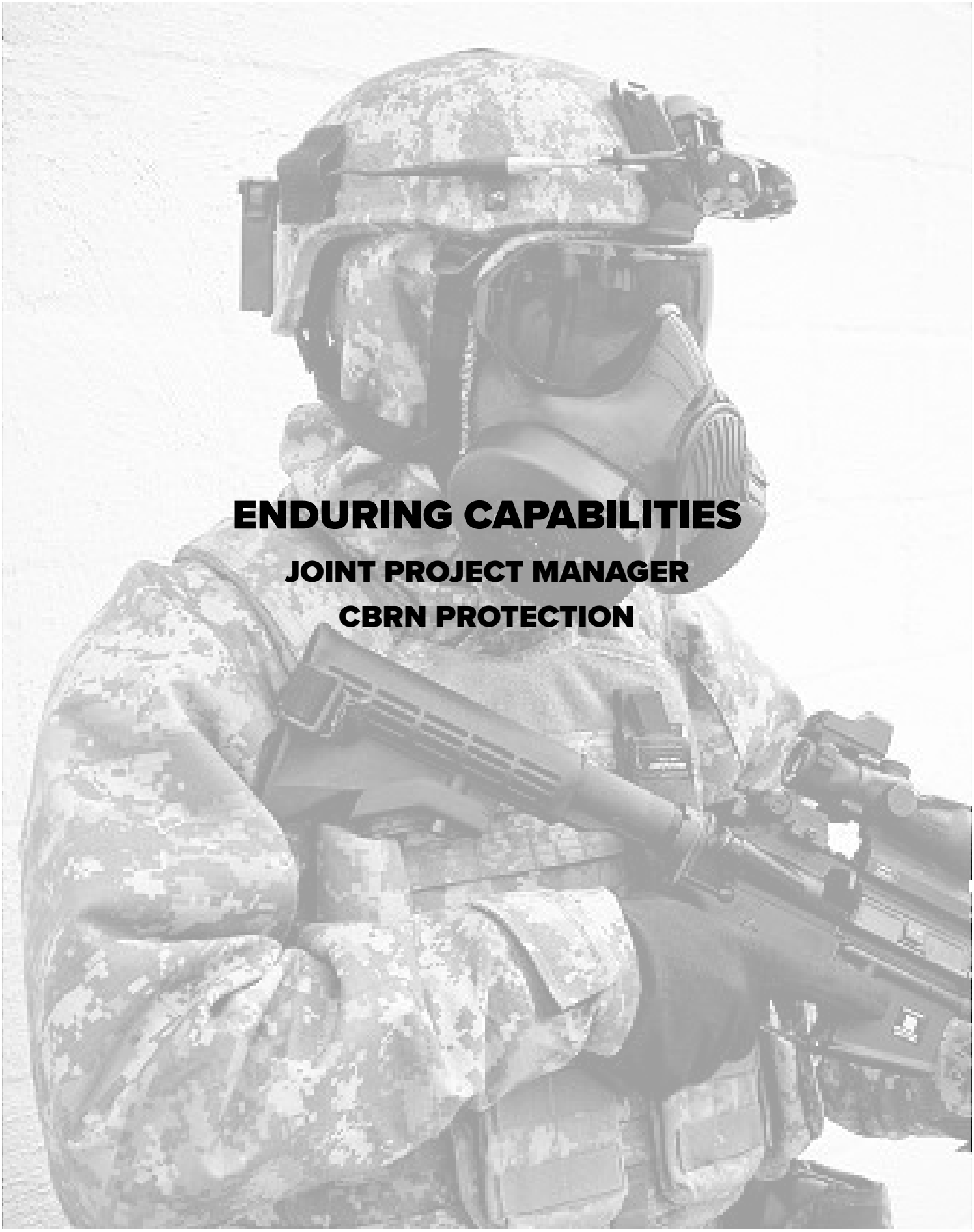
Acquisition Phase:
-

PROTECTING THE JOINT FORCE

JPEO-CBRND

CHEMICAL, BIOLOGICAL, RADIOLOGICAL & NUCLEAR DEFENSE

ENDURING CAPABILITIES



ENDURING CAPABILITIES

JOINT PROJECT MANAGER CBRN PROTECTION

ENDURING CAPABILITIES JPM CBRN PROTECTION

Chemical Biological Protective Shelter M8E1 (CBPS M8E1)

Description: Chemical and Biological Protective Shelter (CBPS M8E1) is a mobile, self-contained collective protection system that provides a Chemical and Biological (CB) contamination free working area for Role I and II medical treatment facilities and other selected units.

Collectively Protected Field Hospital (CPFH)

Description: CPFH provides equipment and core components to integrate collective protection into service expeditionary field hospitals to enable sustained medical treatment in a chemical biological and radiological contaminated environment without the use of mission oriented protective posture gear.

Contaminated Human Remains System (CHRS)

Description: Contaminated Human Remains System (CHRS) will be used by Mortuary Affairs organizations if the need arises to repatriate chemical, biological, or radiological (CBR) contaminated human remains.

Decontamination Family of Systems General Purpose Decontaminant (DFoS GPD)

Description: DFoS GPD provides operational and thorough decontamination capabilities for tactical vehicles, shipboard surfaces, crew-served weapons, and individual/personal weapons in hostile and non-hostile environments that have been exposed to traditional and non-traditional Chemical and Biological (CB) contamination.

ENDURING CAPABILITIES JPM CBRN PROTECTION

Decontamination Family of Systems Joint Service Equipment Wipe (DFoS JSEW)

Description: DFoS JSEW is a portable wipe system applied directly to contaminated equipment surfaces and is capable of removing gross contamination within five minutes following application, in durable packaging easily opened in Mission-Oriented Protective Posture (MOPP) IV, and is non-hazardous, non-flammable and inherently safe.

Joint Biological Agent Decontamination System (JBADS)

Description: Joint Biological Agent Decontamination System (JBADS) provides the capability to conduct biological warfare agent (BWA) decontamination of the interior and exterior of aircraft.

Joint Protective Aircrew Ensemble (JPACE)

Description: JPACE provides below-the-neck Chemical and Biological protection for aviators and aircrew personnel when worn in place of the flight suit or over the Chemical Protective Undergarment.

Joint Service Aircrew Mask Apache (MPU-6 JSAM Apache)

Description: JSAM Apache provides face, eye, and respiratory protection for United States Army AH-64/D aircrew against battlefield concentrations of Chemical and Biological agents, toxins, toxic industrial materials and radioactive particulate matter.

ENDURING CAPABILITIES JPM CBRN PROTECTION

Joint Service Aircrew Mask Strategic Aircraft (JSAM SA)

Description: Joint Service Aircrew Mask Strategic Aircraft (JSAM SA) provides individual respiratory, ocular, and percutaneous protection of chemical and biological warfare agents, and select toxic industrial chemicals for United States (U.S.) Army, U.S. Air Force, U.S. Navy, and U.S. Marine Corps strategic aircrew.

Joint Service Aircrew Mask Tactical Aircraft (JSAM TA)

Description: JSAM TA provides respiratory, ocular and percutaneous protection of chemical biological warfare (CWA) agents and select toxic industrial chemicals (TIC) for tactical aircrew members. JSAM TA interfaces with aircrew protective clothing and integrates with aircraft subsystems for mission operations.

Joint Service Chem/Bio Coverall for Combat Vehicle Crewmen (JC3)

Description: J3 provides Chemical and Biological agent and radiological particle protection for combat vehicle crewmen. It is a flame-resistant garment made from a petroleum, oil, and lubricant resistant, selectively permeable membrane material.

Joint Service Chemical Environmental Survivability Mask (M52 JSCESM)

Description: JSCESM protects against chemical vapor and airborne biological and particulate threats where standard Mission Oriented Protective Posture equipment would be used. It provides emergency escape protection for situations such as emergency evacuations and non-combatant operations.

ENDURING CAPABILITIES JPM CBRN PROTECTION

Joint Service General Purpose Mask (JSGPM)

Description: JSGPM is an above-the-neck chemical and biological respirator that protects against battlefield concentrations of chemical-biological agents, toxins, Toxic Industrial Materials, and radioactive particulate matter.

Joint Service General Purpose Mask M53A1 (JSGPM M53A1)

Description: Joint Service General Purpose Mask M53A1 (JSGPM M53A1) is an above-the-neck chemical biological protective respirator against battlefield concentrations of Chemical and Biological (CB) agents, toxins, and Toxic Industrial Materials (TIM).

Joint Service Lightweight Integrated Suit Technology (JSLIST)

Description: JSLIST is a durable, launderable, protective suit providing protection against battlefield concentrations of known chemical, biological, and radiological threats. It is worn over the service uniform and includes a two-piece suit, overboots, gloves, and respiratory equipment.

Joint Service Lightweight Integrated Suit Technology - Alternative Footwear Solutions (JSLIST AFS)

Description: JSLIST AFS is a protective overboot worn over normal combat footwear to provide foot protection against liquid, dust, particulate, or sporulated toxic material, Chemical and Biological warfare agents, and radiological fallout particles when worn as part of the JSLIST, JPACE, or JC3.

ENDURING CAPABILITIES JPM CBRN PROTECTION

Joint Service Lightweight Integrated Suit Technology Block 1 Glove Upgrade Flame Resistant (JSLIST JB1GU FR)

Description: JSLIST JB1GU FR protects the hands from exposure to liquid, vapor, and aerosol chemical and biological hazards. It is a component of the JSLIST ensemble and offers increased tactility/dexterity and an inner chemical protective liner for sweat management.

Joint Service Lightweight Integrated Suit Technology Block 1 Glove Upgrade Non-Flame Resistant (JSLIST JB1GU nFR)

Description: JSLIST JB1GU nFR protects the hands from exposure to liquid, vapor, and aerosol chemical and biological hazards, offers increased tactility/dexterity, and has an inner chemical protective liner for sweat management.

Joint Service Lightweight Integrated Suit Technology Integrated Footwear System (JSLIST IFS)

Description: JSLIST IFS is a sock/liner system worn under normal combat footwear to protect the foot against chemical and biological hazards. It is issued as a component of the JSLIST and the JPACE.

Joint Service Transportable Decon System Small Scale (JSTDS SS)

Description: JSTDS SS provides a portable, enhanced operational decontamination capability that supports thorough decontamination operations of medium to large mobile or fixed equipment and aircraft.

ENDURING CAPABILITIES JPM CBRN PROTECTION

M40 Series Mask Program (M40 SMP)

Description: M40 SMP replaced the M17 SMP as the standard Army field mask, providing improved comfort, fit and protection. The mask consists of a silicone rubber face piece with an in-turned peripheral face seal, binocular rigid eye lens system and elastic head harness.

M41A1 Protection Assessment Test System (M41A1 PATS)

Description: M41A1 Protection Assessment Test System (M41A1 PATS) measures the fit factor of the protective mask on the Soldier, emphasizing the importance of the masks proper fit and wear. The PATS is the Army's only means of testing/verifying mask fit. The M41A1 PATS addresses obsolescence of the M41 PATS.

M42 Series Mask Program (M42 SMP)

Description: M42 SMP protective mask provides respiratory, eye and face protection against chemical and biological agents, radioactive fallout particles, and battlefield contaminants. A Combat Vehicle Crewman Mask variant includes a built-in microphone for wire communication.

M45 Aircrew Chemical-Biological Mask System (M45 CBM)

Description: M45 ACBM aircrew protective mask provides aircrew and hard-to-fit personnel with above-the-neck, head, eye, and respiratory protection against all known chemical and biological threat agents and radiological particulates.

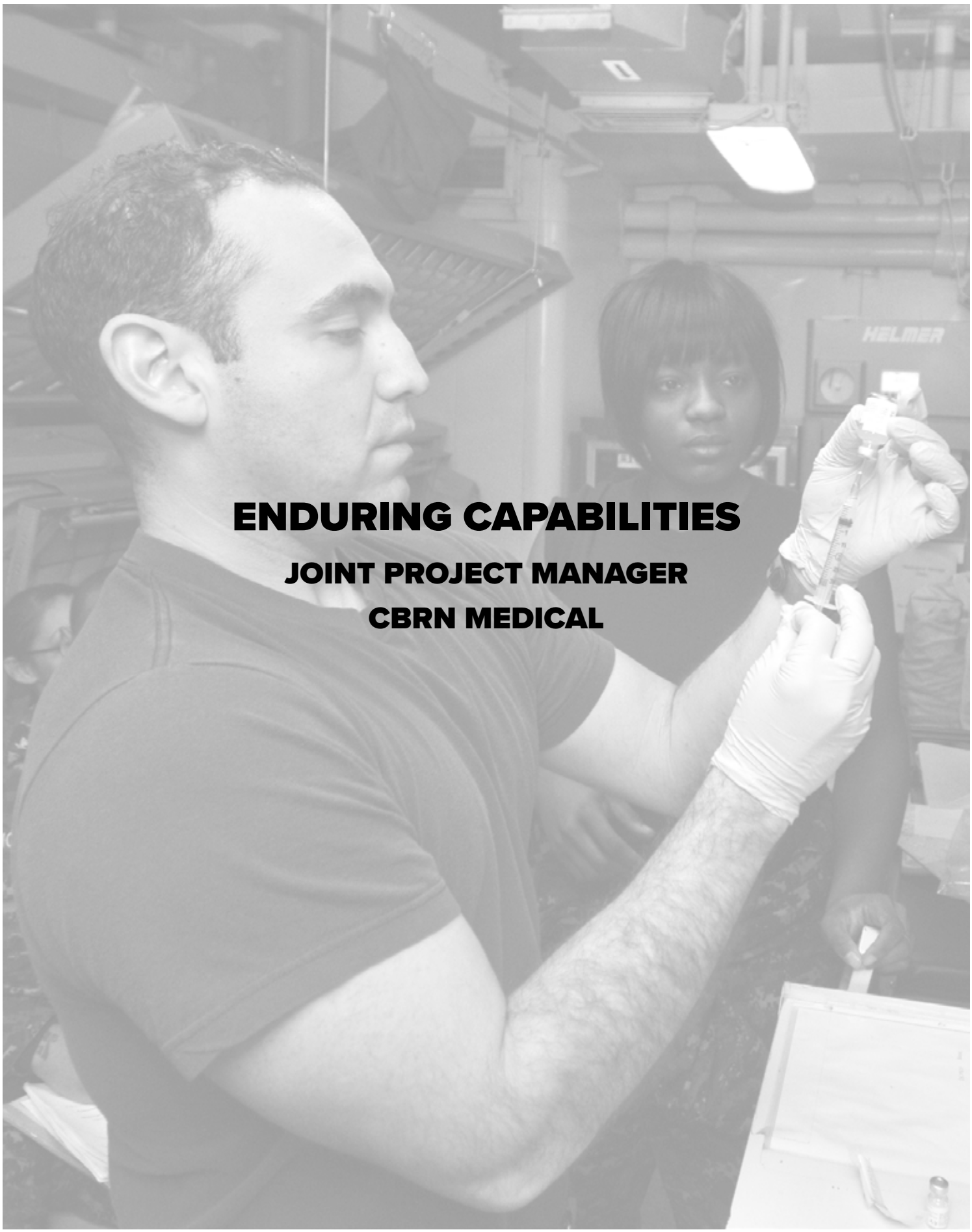
ENDURING CAPABILITIES JPM CBRN PROTECTION

M48 Chemical-Biological Apache Aviator Mask (M48 CB-AAM)

Description: M48 CB-AAM provides face, eye, and respiratory protection from battlefield concentrations of chemical and biological agents, toxins, and radioactive particulate matter. It provides flame and thermal protection with reduced heat stress and can be donned and doffed in-flight.

Mass Personnel Decontamination (MPD)

Description: The MPD provides Warfighters with the capability to reduce the hazards associated with mass casualty decontamination efforts for protected and unprotected personnel, causalities and Contaminated Human Remains (CHR) potentially exposed to CBRN hazards. The MPD consists of a standardized, modular system using a scalable approach in order to increase capability.



ENDURING CAPABILITIES

JOINT PROJECT MANAGER
CBRN MEDICAL

ENDURING CAPABILITIES JPM CBRN MEDICAL

Atropine Autoinjector (Atropine Autoinjector)

Description: The Atropine Autoinjector is authorized for Emergency Use for the initial treatment of muscarinic symptoms of known or suspected poisoning in individuals exposed to nerve agents or certain insecticides (organophosphorus and/or carbamate).

Next Generation Diagnostic System 1 (NGDS 1)

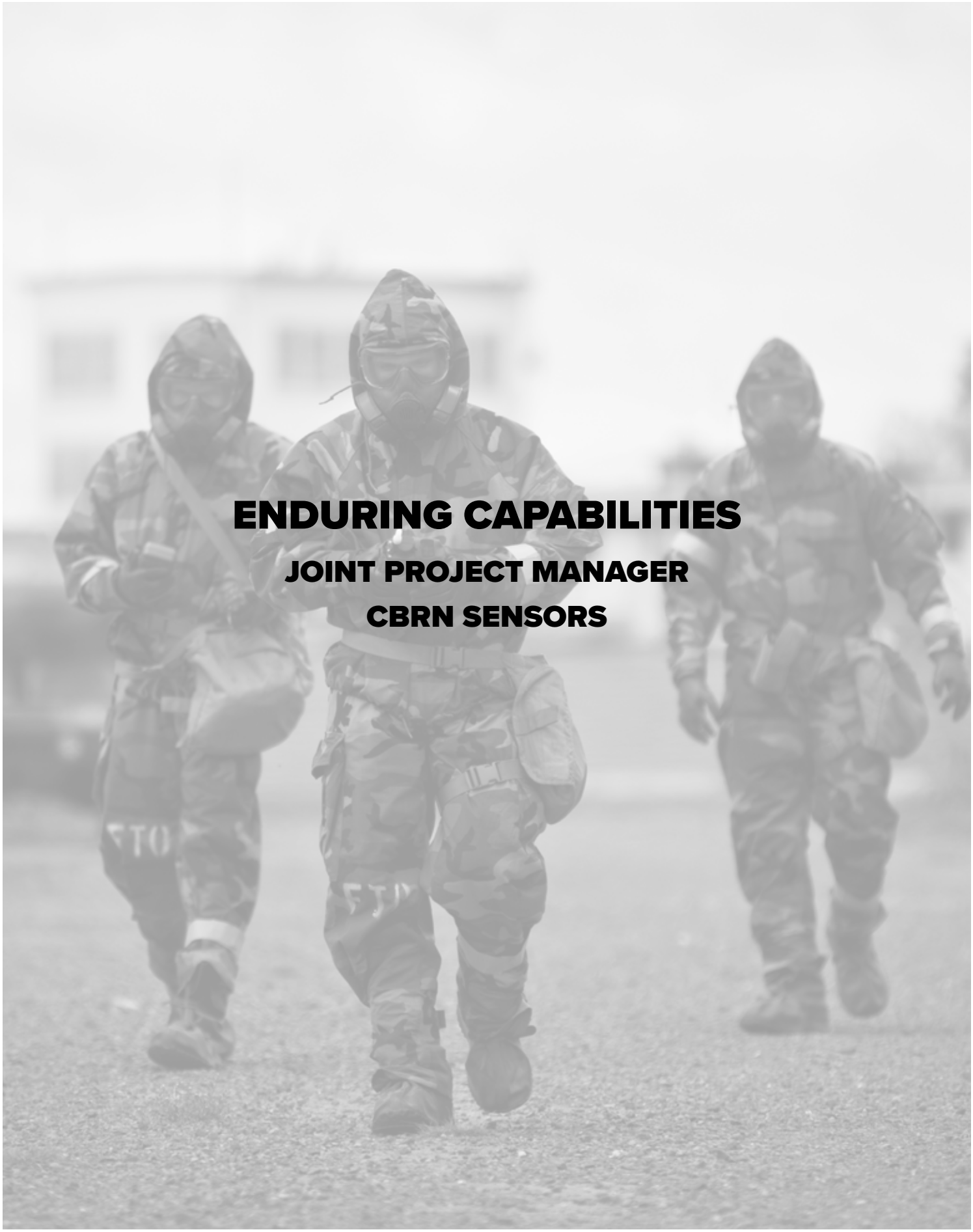
Description: Next Generation Diagnostic System I (NGDS 1) identifies biological hazards in human clinical specimens and provides diagnostic information to facilitate delivery of appropriate Medical Countermeasures (MCM).

Rapid Opioid Countermeasure System - Rapid Prototyping (ROCS - RP)

Description: Rapid Opioid Countermeasure System (ROCS) provides a Food and Drug Administration (FDA) approved 10 mg naloxone autoinjector as a rescue treatment that will counteract the adverse effects from exposure to opioids.

Reactive Skin Decontamination Lotion (RSDL)

Description: Reactive Skin Decontamination Lotion (RSDL) is a Food and Drug Administration (FDA) approved medical device, that is individually carried, skin decontamination kit. It provides the Warfighter the ability to decontaminate the skin, after exposure to Chemical/Biological (CB) warfare agents, in support of immediate and thorough personnel decontamination operations.



ENDURING CAPABILITIES

JOINT PROJECT MANAGER

CBRN SENSORS

ENDURING CAPABILITIES JPM CBRN SENSORS

AN/PDR-75A Radiac Set (AN/PDR 75A)

Description: AN/PDR-75 measures prompt and residual gamma doses and neutron doses. It monitors and records the total dose exposure of individual personnel to gamma and neutron radiation and responds to and measures prompt radiation from nuclear bursts.

AN/PDR-77 Radiac Set (AN/PDR-77)

Description: AN/PDR-77 detects and measures alpha, beta, gamma, and X-ray radiation. It replaces the older AN/PDR-56F and AN/PDR-60, which relied on aging technology and were not sensitive enough to accomplish the Army's alpha detection mission.

AN/VDR-2 Radiac Set (AN/VDR-2)

Description: AN/VDR-2 detects and measures nuclear radiation from fallout and radioisotopes. It performs ground radiological surveys from vehicles or, in the dismounted mode, as a handheld instrument.

Automatic Chemical Agent Alarm (M8A1 ACAA)

Description: M8A1 ACAA is a remote, continuous air sampling alarm which automatically detects nerve agent vapors and warns personnel with both audible and visual signals. The detector unit senses the presence of nerve agent vapor and sounds an audible alarm and a remote visual signal.

ENDURING CAPABILITIES JPM CBRN SENSORS

Automatic Chemical Agent Detector Alarm (ACADA)

Description: ACADA is an automatic chemical agent alarm system capable of detecting, warning, and identifying standard blister and nerve agents simultaneously. It's man-portable, operates independently after system start-up, provides audible & visual alarm, and provides communication interface to support battlefield automation systems.

Biological Integrated Detection System (BIDS) (M31A2 BIDS)

Description: M31A2 BIDS system detects and identifies large-area Biological Warfare agent attacks, provide a basis for large-area protection and warning. It includes a detection suite, a meteorological station, Global Positioning System (GPS), Chemical and Biological (CB) Radiological and Nuclear filtration, and environmental controls.

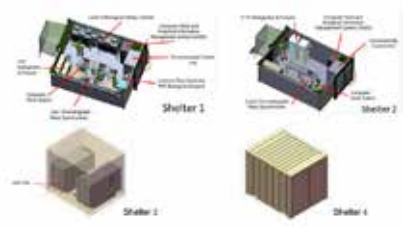
Chemical Agent Detector Kit M256A2 (M256A2)

Description: A collection of chemical materials and testing equipment for the purpose of determining the presence and identity of toxic chemical warfare agents. Excludes Analyzing Kit, Chemical Agent.

Chemical Reconnaissance and Explosives Screening Set (CRESS)

Description: CRESS is a disposable/consumable kit designed to quickly and easily screen for specific explosives and their precursors. It uses colorimetric technology to determine if unknown bulk solids, liquids, and trace chemicals are likely to be prohibited compounds.

ENDURING CAPABILITIES JPM CBRN SENSORS



Common Analytical Laboratory System Theater Validation Integrated System (CALS TV IS)

Description: CALS TV IS integrates a common suite of Chemical and Biological (CB) Commercial or Government-Off-the-Shelf (COTS/GOTS) to provide a common, modular, and transportable/mobile system and provide a high level of confidence in results via orthogonal technologies and expanded suite.

Discharger, Grenade, Smoke, Countermeasure: M6 (M6)

Description: M6 Countermeasure Discharger is a four-tube smoke grenade launcher that enables combat vehicles to conceal themselves from hostile surveillance, target acquisition and weapon guidance systems. It interfaces with vehicle integrated defense systems.

Dry Filter Unit (DFU)

Description: DFU is a biological air sampler that collects and concentrates biological particulates from ambient air, which is drawn through a filter via electrical blower. The filter placed into buffer solution, shaken to extract particles, and analyzed using hand-held assays for presumptive identification of biological warfare agents.

Generator, Smoke, Mechanical: Mechanized smoke obscurant system, M58 (M58 Smoke Generator)

Description: M58 Smoke Generator enables the defeat of enemy reconnaissance, surveillance, intelligence and target acquisition systems operating in the visual, infrared, and millimeter wave regions of the electromagnetic spectrum.

ENDURING CAPABILITIES JPM CBRN SENSORS

Improved Chemical Agent Monitor (ICAM)

Description: ICAM is a hand-held, soldier-operated, post-attack device used for monitoring chemical agent contamination on people and equipment. It detects vapors of chemical agents by sensing molecular ions of specific mobility (time of flight) and uses timing and microprocessor techniques to reject interferences.

Joint Chemical Agent Detector (JCAD)

Description: JCAD is a miniaturized, rugged, and portable point chemical agent detector that automatically and simultaneously detects, identifies, and alerts the presence of nerve, blister, and blood chemical warfare agents.

Joint Chemical Agent Detector M4A1 (JCAD M4A1)

Description: Joint Chemical Agent Detector M4A1 (JCAD M4A1) is a miniaturized chemical agent detector capability for the detection of vaporized chemical agents. It includes the Solid Liquid Adaptor to vaporize surface samples, and includes the Improved Point Detection System-Lifecycle Replacement for shipboard chemical vapor detection.

Joint Chemical Agent Detector Solid Liquid Adapter (JCAD SLA)

Description: The JCAD SLA is an Additional Authorized List (AAL) item to the M4A1 JCAD. The JCAD SLA kit effort continues the development of the JCAD CED, which was an NGCD acceleration effort for USSOCOM. The SLA interfaces with the fielded M4A1 JCAD to allow for solid and liquid sampling of NTAs, PBAs, and explosives off surfaces. The SLA kit provides a point solution to detect NTAs and PBAs off surfaces.

ENDURING CAPABILITIES JPM CBRN SENSORS

Joint Chemical Biological Radiological Agent Water Monitor (JCBRAWM)

Description: JCBRAWM detects, identifies, and quantifies chemical, biological, and radiological contamination during water-monitoring missions: source site selection/reconnaissance, treatment verification, and quality assurance of stored and distributed product water.

Joint Handheld Bio-agent Identifier (JHBI)

Description: Joint Handheld Bio-Agent Identifier (JHBI) provides the capability to rapidly and accurately identify bio-agents at the point of contact in a handheld Polymerase Chain Reaction device that includes integrated, automated sample preparation.

Light Vehicle Obscuration Smoke System (LVOSS)

Description: LVOSS counters threat weapon systems operating in the visual and near infrared portion of the electromagnetic spectrum.

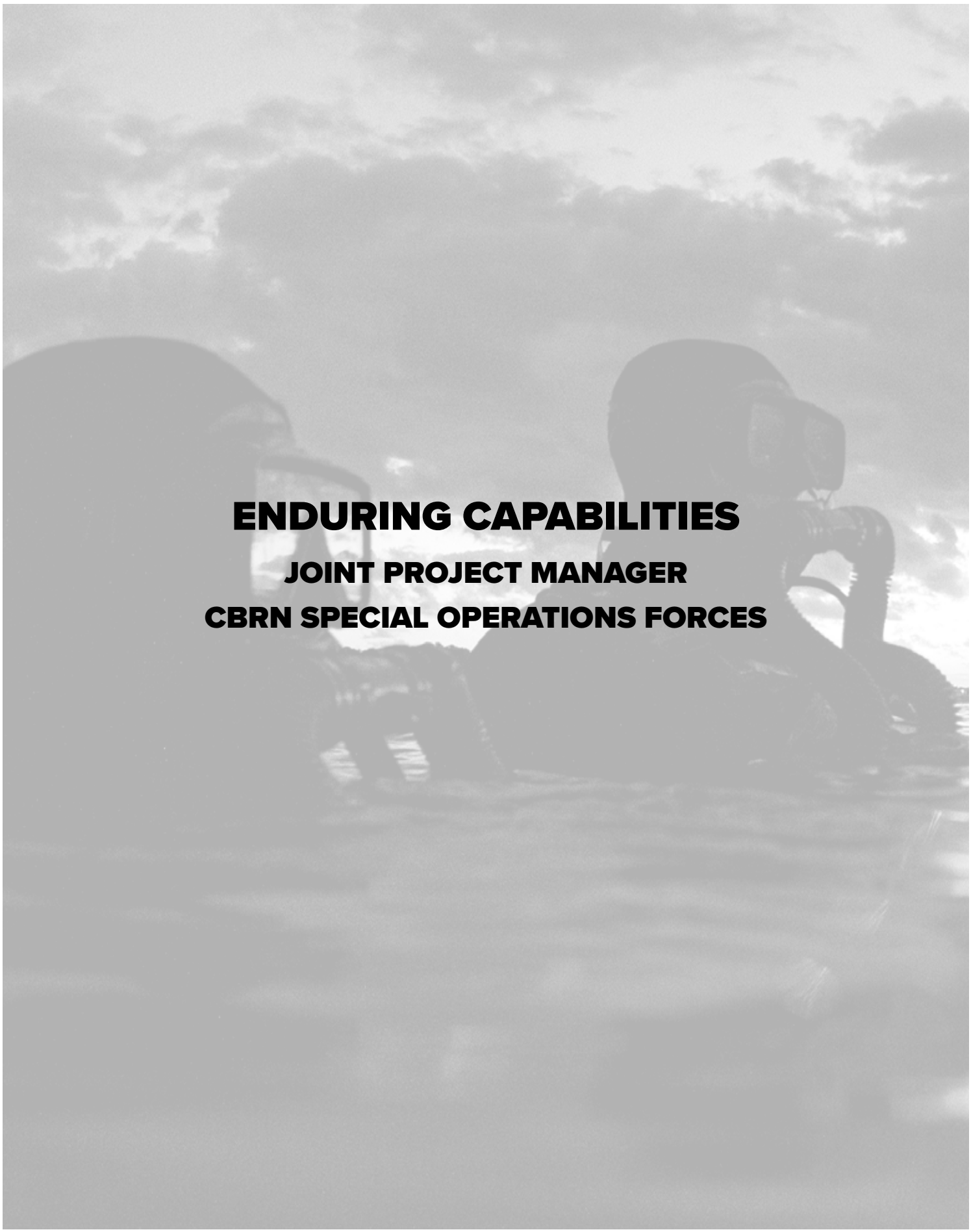
M106 Screening Obscuration Devices - Visual Restricted Terrain (SOD-Vr)

Description: SOD-Vr provides screening obscuration effects for Warfighters operating in restricted terrain to increase survivability and enhance breaking contact and assault protection. It was transferred to the Joint Program Executive Office Armaments & Ammunition in 2016.

ENDURING CAPABILITIES JPM CBRN SENSORS

Unified Command Suite (UCS)

Description: Unified Command Suite (UCS) provides secure, continuous, reliable, short- and long-range communications between the Weapons of Mass Destruction Civil Support Team (WMD CST), lateral/higher-echelon civilian and military operational commanders, and Incident Command Posts.



ENDURING CAPABILITIES

JOINT PROJECT MANAGER
CBRN SPECIAL OPERATIONS FORCES

ENDURING CAPABILITIES JPM CBRN SPECIAL OPERATIONS FORCES

Chemical Biological Aircraft Survivability Barrier (CASB)

Description: Chemical Biological Aircraft Survivability Barrier (CASB) supports the warfighter by enabling the use of airlift aircraft for exfiltration of chemically or biologically contaminated personnel and cargos while preserving the aircraft for continued unrestricted operations without need for decontamination.

Forward Area Mobility Spray System - Rapid Prototyping (FAMS-S-RP)

Description: FAMS-S-RP provides Special Operations Forces (SOF) and SOF Task Forces a man-portable and mobile platform capable of rapidly decontaminating chemical and biological agents from the exterior of aircraft, helicopters, boats, vehicles, or support equipment.

Uniform Integrated Protection Ensemble 1 (UIPE 1)

Description: UIPE 1 provides individual protective capabilities to the Warfighter through reduction of physiological and psychological burdens associated with the weight, bulk, thermal strain, and encumbrance of wearing CBRN protective gear.

ENDURING CAPABILITIES

JOINT PROJECT LEAD
CBRN INTEGRATION

ENDURING CAPABILITIES JPL CBRN INTEGRATION

Chemical Biological Radiological Nuclear Information System (CBRN IS)

Description: Chemical Biological Radiological Nuclear Information System (CBRN IS) provides a web-based capability that allows users to collect, collaborate, and disseminate Chemical, Biological, Radiological, and Nuclear (CBRN) hazard data for greater situational awareness of the CBRN environment and aid in decision support.

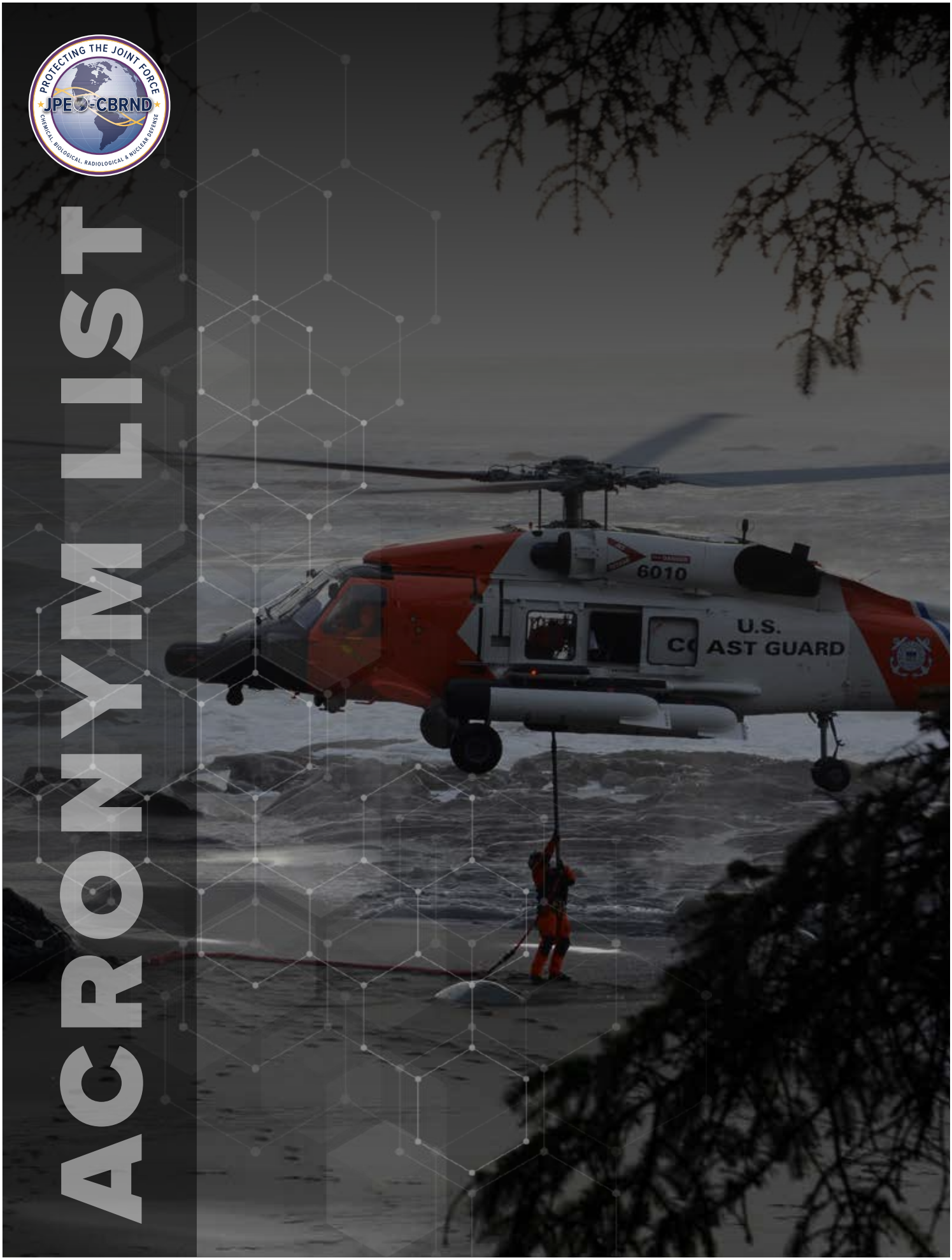
Joint Effects Model 2 (JEM 2)

Description: Joint Effects Model 2 (JEM 2) provides an authoritative Chemical, Biological, Radiological, and Nuclear (CBRN) hazard modeling and simulation capability. Applies advanced physics using weather, terrain, and agent characteristics to predict and display the time-phased impact of CBRN and Toxic Industrial Chemical/Material.

Joint Warning And Reporting Network 2 (JWARN 2)

Description: Joint Warning and Reporting Network 2 (JWARN 2) provides an integrated Chemical, Biological, Radiological, and Nuclear (CBRN) warning and reporting capability. Provides CBRN reports management and hazard area display for situational battlespace awareness and continuity of operations in a contaminated environment.

ACRONYM LIST



ACRONYM	DEFINITION
AA-ENBD	Accelerated Antibodies - Enhanced Biological Defense
AAF	Adaptive Acquisition Framework
AAL	Additional Authorized List
AAS	Advanced Anticonvulsant System
ACAA	Automatic Chemical Agent Alarm
ACADA	Automatic Chemical Agent Detector Alarm
ADD	Advanced Differential Diagnostics
ADS	Autonomous Decontamination System
ALS MOD	Analytical Laboratory System Modification
ASPIRE	Advanced System for Protection and Integrated Reduction of Encumbrances
ASPIRE-ENBD	Advanced System for Protection and Integration Reduction of Encumbrances - Enhanced Biological Defense
AV TX	Antiviral Therapeutics
AVCAD	Aerosol Vapor Chemical Agent Detector
AVO TX	Antiviral Oral Therapeutics Program
BCIS-ENBD	Biological Containment Isolation System - Enhanced Biological Defense
BIDS	Biological Integrated Detection System
BOT MAB	Botulinum Monoclonal Antibodies
BOT TX	Botulinum Toxin Therapeutic
CALS FC ACS	Common Analytical Laboratory System Field Confirmatory Analytical Capability Set
CALS TV IS	Common Analytical Laboratory System Theater Validation Integrated System
CANA	Convulsive Antidote for Nerve Agents
CASB	Chemical Biological Aircraft Survivability Barrier
CB	Chemical Biological
CB-AAM	Chemical-Biological Apache Aviator Mask
CB COTS/GOTS	Chemical Biological Commercial Off-The-Shelf/Government Off-The-Shelf
CBM	Chemical-Biological Mask System
CBDP	Chemical and Biological Defense Program
CBPS	Chemical and Biological Protective Shelter
CBRN	Chemical, Biological, Radiological and Nuclear
CBRN IS	Chemical, Biological, Radiological and Nuclear Information System
CBRND	Chemical, Biological, Radiological and Nuclear Defense
CBRN DRS	Chemical, Biological, Radiological Nuclear Dismounted Reconnaissance Systems
CEDS	Critical Equipment Decontamination System
CHRS	Contaminated Human Remains System
CIND	Chemical Indicator
COVID VAC	Validated Nucleic Acid Vaccine Construction
CNATS	Consolidated Nerve Agent Treatment System
CP DEPMEDS	Chemically Protected Deployable Medical System

ACRONYM	DEFINITION
CPFH	Collectively Protected Field Hospital
CPG	Clinical Practice Guideline
CRESS	Chemical Reconnaissance and Explosives Screening Set
CSC2	Chemical Biological Radiological Nuclear Support to Command & Control
CVCAD	Compact Vapor Chemical Agent Detector
CWMD	Countering Weapons of Mass Destruction
DBPAP	Defense Biological Product Assurance Program
DFoS CIDAS Nerve	Decontamination Family of Systems Contamination Indicator Decontamination Assurance System Nerve
DFoS GPD	Decontamination Family of Systems General Purpose Decontaminant
DFoS JSEW	Decontamination Family of Systems Joint Service Equipment Wipe
DFU	Dry Filter Unit
EMBD	Enhanced Maritime Biological Detection
EMD	Engineering & Manufacturing Development
FAMS-S	Forward Area Mobility Spray System
FAMS-S-RP	Forward Area Mobility Spray System - Rapid Prototyping
FDA	Food and Drug Administration
FFBS	Far Forward Biological Sequencing
FGA	Fourth Generation Agents
GUIDE-ENBD	Generative Unconstrained Intelligent Drug Engineering - Enhanced Biological Defense
HED	Human Effective Dose
ICAM	Improved Chemical Agent Monitor
INATS CA	Improved Nerve Agent Treatment System Centrally Acting
JACKS DBS	Joint Acquisition Chemical Biological Knowledge System Defense Business System
JBADS	Joint Biological Agent Decontamination System
JBTDS	Joint Biological Tactical Detection System
JC3	Joint Service Chem/Bio Coverall for Combat Vehicle Crewmen
JCAD	Joint Chemical Agent Detector
JCAD SLA	Joint Chemical Agent Detector Solid Liquid Adapter
JCBRAWM	Joint Chemical Biological Radiological Agent Water Monitor
JECP	Joint Expeditionary Collective Protection
JEM	Joint Effects Model
JHBI	Joint Handheld Bio-Agent Identifier
JPACE	Joint Protective Aircrew Ensemble
JPD-I	Joint Personal Dosimeter-Individual
JPEO-CBRND	Joint Program Executive Officer for Chemical, Biological, Radiological and Nuclear Defense
JPL	Joint Project Lead
JPM	Joint Project Manager
JSAM Apache	Joint Service Aircrew Mask Apache

ACRONYM	DEFINITION
JSAM RW	Joint Service Aircrew Mask Rotary Wing
JSAM SA	Joint Service Aircrew Mask Strategic Aircraft
JSAM TA	Joint Service Aircrew Mask Tactical Aircraft
JSCESM	Joint Service Chemical Environmental Survivability Mask
JSGPM	Joint Service General Purpose Mask
JSLIST	Joint Service Lightweight Integrated Suit Technology
JSLIST AFS	Joint Service Lightweight Integrated Suit Technology - Alternative Footwear Solutions
JSLIST IFS	Joint Service Lightweight Integrated Suit Technology Integrated Footwear System
JSLIST JB1GU FR	Joint Service Lightweight Integrated Suit Technology Block 1 Glove Upgrade Flame Resistant
JSLIST JB1GU nFR	Joint Service Lightweight Integrated Suit Technology Block 1 Glove Upgrade Non-Flame Resistant
JSTDS SS	Joint Service Transportable Decon System Small Scale
JWARN	Joint Warning and Reporting Network
LVOSS	Light Vehicle Obscuration Smoke System
mAb	Monoclonal Antibody
MCA	Major Capability Acquisition
MCM	Medical Countermeasure
MCM MFRO	Medical Countermeasures Manufacturing Optimization
MCMPT	Medical Countermeasure Platform Technologies
MFK	Mobile Field Kit
MOD MED	Modernization Medical
MOPP	Mission Oriented Protective Posture
MPD	Mass Personnel Decontamination
MRDS	Man-Portable Radiological Detection System
MSA	Materiel Solution Analysis
NBCRV SSU	Nuclear Biological Chemical Reconnaissance Vehicle Sensor Suite Upgrade
NGB	National Guard Bureau
NGDS	Next Generation Diagnostic System
NGDS 2 ChemDX	Next Generation Diagnostics System 2 Chemical Diagnostics
NGDS 2 MPDS	Next Generation Diagnostics System 2-Man Portable Diagnostic System
NON MED PPE	Non Medical Personal Protective Equipment
NSIS	Non-Targeted Sequencing Identification System
NTA	Non-Traditional Agent
O&S	Operations & Support
P&D	Production & Deployment
PATS	Protective Assessment Test System
PLG MAB	Plague Monoclonal Antibodies
POM	Program Objective Memorandum
POR	Programs of Record
PPTS-ENBD	Portable Patient Transport System - Enhanced Biological Defense

ACRONYM	DEFINITION
RADIAC	Radiation Detection, Indication and Computation
RAPID	Rapid Access to Products in Development
RDS	Radiological Detection System
RIID	Radio Isotope Identification Detector
RN	Radiological and Nuclear
RNATS	Reactivating Nerve Agent Treatment System
ROCS	Rapid Opioid Countermeasure System
RSDL	Reactive Skin Decontamination Lotion
S&T	Science & Technology
SEDS	Service Equipment Decontamination System
SIS	Shipboard Isolation System
SLA	Solid Liquid Adapter
SMP	Series Mask Program
sNDA	Supplemental New Drug Application
SOD-Vr	Screening Obscuration Devices - Visual Restricted Terrain
SOF	Special Operations Forces
SOM	Screening Obscuration Module
SPCHAR-ENBD	Surveillance and Pathogen Characterization - Enhanced Biological Defense
SPU RCDD	Special Purpose Unit Rapid Capability Development and Deployment
SPX AV PEP	Smallpox Antiviral Post-Exposure Prophylaxis
TATPE	Tactical Advanced Threat Protective Ensemble
TCMS	Tactical Contamination Mitigation System
TMRR	Technology Maturation & Risk Reduction
UCS	Unified Command Suite
UI	User Interface
UIPE	Uniform Integrated Protection Ensemble
UIPE FoS	Uniform Integrated Protection Ensemble Family of Systems
UIPE FoS Air	Uniform Integrated Protection Ensemble Family of Systems Air
UIPE FoS Gloves	Uniform Integrated Protection Ensemble Family of Systems Gloves
UIPE FoS GP	Uniform Integrated Protection Ensemble Family of Systems General Purpose
USA	U.S. Army
USAF	U.S. Air Force
USMC	U.S. Marine Corps
USN	U.S. Navy
USSOCOM	U.S. Special Operations Command
VAMP-ENBD	Vaccine Acceleration by Modular Progression - Enhanced Biodefense
VSST	Vaccine Storage and Stability Testing
WARP	Wearable All-hazard Remote-monitoring Program

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