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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Chemical and Biological Defense Program **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605384BP / <i>CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	125.455	115.503	124.475	-	124.475	125.966	124.779	125.158	126.060	Continuing	Continuing
DW6: <i>Major Range And Test Facility Base (Mgmt Support)</i>	-	65.604	65.560	59.190	-	59.190	58.028	57.833	57.833	57.833	Continuing	Continuing
LS6: <i>Laboratory Support (Mgmt Support)</i>	-	12.376	10.213	10.291	-	10.291	10.289	10.289	10.289	10.289	Continuing	Continuing
MS6: <i>Management Support (Mgmt Support)</i>	-	42.800	36.175	54.994	-	54.994	57.649	56.657	57.036	57.938	Continuing	Continuing
DT6: <i>Joint Doctrine And Training Support (Mgmt Support)</i>	-	1.829	2.615	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.444
O49: <i>Joint Concept Development (Mgmt Support)</i>	-	2.846	0.940	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	3.786

A. Mission Description and Budget Item Justification

This program element (PE) resources research, development, test, and evaluation (RDT&E) management support as a key enabler across the Enabling Investments, Mitigate, Protect, and Understand portfolios. Chemical Biological Defense Program (CBDP) investments provide an integrated, layered capability to enable combating weapons of mass destruction (CWMD) missions ranging from combat operations to Department of Defense (DoD) support to domestic incident prevention and response. The Projects in this PE support sustainment and modernization of laboratory infrastructure, test capabilities, studies and analyses, Joint doctrine and training, and program and financial management support. FY23 funding accelerates characterization and situational awareness of emerging biothreats and accelerates delivery of improved protection from and mitigation of biothreats, including rapid repurposing of available therapeutics and development of new vaccines.

Individual Projects include:

- Major Range and Test Facility Base (MRTFB) (DW6): Operating support to West Desert Test Center (WDTC) and BioTesting Division (Chemical Biological Center) for the required institutional test operating costs (e.g. institutional civilian and contractor labor; repair and maintenance of test instrumentation, equipment, and facilities; and replacement of test equipment).

- Laboratory Support (LS6): Operating support for sustainment and modernization efforts for surety laboratory infrastructure in order to maintain and enhance DoD infrastructure capabilities to counter an expanding threat space, exploit advances in technology; and develop and transition CB defense equipment and countermeasures to the Warfighter.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Chemical and Biological Defense Program **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605384BP / <i>CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)</i>
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- Management Support (MS6): Management support for the DoD CBDP to allow program overview and integration of overall medical and non-medical programs by the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs (ASD(NCB)), through the Deputy Assistant Secretary of Defense for Chemical Biological Defense (DASD(CBD)).

- Joint Doctrine and Training Support (DT6) and Joint Concept Development (O49) are no longer active FY23 Projects due to budget restructure.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	127.951	110.503	0.000	-	0.000
Current President's Budget	125.455	115.503	124.475	-	124.475
Total Adjustments	-2.496	5.000	124.475	-	124.475
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	0.000	5.000			
• Congressional Directed Transfers	0.000	-			
• Reprogrammings	-0.855	-			
• SBIR/STTR Transfer	-1.641	-			
• Other Adjustments	0.000	-	124.475	-	124.475

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: DW6: *Major Range And Test Facility Base (Mgmt Support)*

Congressional Add: 1) *Chemical/Biological Defense Testing*

Congressional Add Subtotals for Project: DW6

Congressional Add Totals for all Projects

	FY 2021	FY 2022
	5.000	5.000
	5.000	5.000
	5.000	5.000

Change Summary Explanation

Funding: FY 2021 (-\$0.855 Million): Below threshold reprogramming adjustments to balance overall portfolio efforts.

FY 2021 (-\$1.641 Million): Transfer of funding to support Small Business Innovative Research/Small Business Technology Transfer efforts.

FY 2021 (+\$5.000 Million) and FY 2022 (+\$5.000 Million): Congressional Add for chemical/biological defense testing. FY 2021 Congressional Add is reflected in the Current President's Budget.

FY 2023: Funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding. Funding includes specific increases for enhanced biodefense and pandemic preparedness investments (+\$7.000 Million) and Departmental inflation rate adjustments (+\$4.292 Million).

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 6: <i>RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605384BP / <i>CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)</i>
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Schedule: N/A

Technical: N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program										Date: April 2022		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)				Project (Number/Name) DW6 / Major Range And Test Facility Base (Mgmt Support)			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
DW6: Major Range And Test Facility Base (Mgmt Support)	-	65.604	65.560	59.190	-	59.190	58.028	57.833	57.833	57.833	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Major Range and Test Facility Base (MRTFB) Research, Development, Test, and Evaluation (RDT&E) Management Support Project provides for the Dugway Proving Ground (DPG) MRTFB technical and operational capability for testing Department of Defense (DoD) Chemical and Biological (CB) and Non Traditional Agent (NTA) defense materiel, equipment, and systems from concept through production to include associated special operations Tactics, Techniques, and Procedures Development (TTPD) activities.

Efforts included in this Project are:

- (1) Combat Capability Development Command (DEVCOM) Chemical and Biological Center BioTesting Division (BTD-CBC)
- (2) West Desert Test Center (WDTC)

BTD-CBC and WDTC, both part of the MRTFB located at DPG, are the reliance centers for all DoD CB defense testing and provide the United States' only combined range, chamber, toxic chemical lab, and bio-safety level-3 (BSL-3) test facility. BTD-CBC and WDTC use uniquely designed state-of-the-art chemical and life-sciences test facilities and test chambers to perform CB defense testing of protective gear, decontamination systems, detectors, equipment, and non-materiel CB defense solutions while maintaining safety, security, and surety of chemical agents and biological pathogens. WDTC also provides test ranges, to include fully instrumented outdoor ranges, for TTPD activities and testing with simulants that can be correlated to the laboratory testing with live agents to ensure reliable and repeatable data are generated to support acquisition decisions of CB defense equipment. Project provides institutional and overhead funding required to operate WDTC and BTD-CBC in compliance with National Defense Authorization Act (NDAA) for FY03 (Public Law 107-314 - December 2002), Section 232, "Objective for institutional funding of test and evaluation facilities." Institutional operating costs were transferred to the consolidated OSD Chemical and Biological Defense Program (CBDP) consistent with Public Law 103-160 Section 1701.

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

	FY 2021	FY 2022	FY 2023
Title: 1) BTD TEST - Biological Defense Test and Evaluation Capability, MRTFB	7.514	8.114	7.641
Description: Maintains MRTFB test and evaluation (T&E) mission readiness at Bio-Testing Division for biological surety laboratory operations, bio-safety risk management, and defensive T&E mission support activities. The LSTF complex contains BSL 1, 2, and 3 laboratories for testing biological weapons detectors, individual protective clothing and equipment, decontamination systems, and material survivability in a bioweapon contaminated environment. The LSTF is the sole DoD facility			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) DW6 / Major Range And Test Facility Base (Mgmt Support)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
certified to challenge developmental defensive test equipment with aerosolized biological warfare agents, including bacteria, viruses, and biological toxins, in BSL-3 chambers.				
<p>FY 2022 Plans: Funds provide continued T&E mission support activities (civilian labor, travel, training, communications, printing and reproduction, supplies, equipment acquisition, contract support, purchased equipment maintenance) maintaining mission readiness of the bioweapons defense technical T&E capability.</p> <p>FY 2023 Plans: Funds will continue T&E mission support activities (civilian labor, travel, training, communications, printing and reproduction, supplies, equipment acquisition, contract support, and purchased equipment maintenance) not chargeable to a test customer to maintain mission readiness of biological developmental and operational T&E capability.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>				
<p>Title: 2) West Desert Test Center (WDTC), MRTFB, Civilian Pay</p> <p>Description: Supports the overhead costs of the civilian labor for Program Budget Guidance (PBG) authorizations. The balance is customer funded. The test customer pays all direct costs that are directly attributable to the use of a test facility or resource for testing of a particular program. Funding is essential to maintain core T&E skills as part of the Government civilian workforce used in support of the Chemical Biological Defense Program (CBDP) mission. WDTC provides specially trained support staff to operate and maintain all critical testing systems.</p> <p>FY 2022 Plans: Funds continue to support the overhead costs of the civilian labor for PBG authorizations.</p> <p>FY 2023 Plans: Funds will continue to support the overhead costs of the civilian labor for PBG authorizations.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>		26.099	26.882	27.715
<p>Title: 3) WDTC, MRTFB, Mission Support</p> <p>Description: Provides ongoing sustainment of existing test instrumentation and equipment at WDTC in support of their operations to maintain mission readiness of chemical laboratories, field and simulatant chamber chemical and biological capabilities of test data and staff functions not chargeable to a test customer. Support annual service contracts for equipment operation, diagnostics, and calibration, as well as routine life-cycle and use-related replacement of existing field, administrative, and analytical instrumentation</p>		13.628	13.002	12.588

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>components and systems. Support test facility maintenance, handling and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing, reproduction, and communications. Funding supports indirect costs for MRTFB in accordance with DoD Instruction 3200.18 and DoD Financial Management Regulation 7000.14-R.</p> <p>FY 2022 Plans: Funds provide ongoing sustainment of existing test instrumentation and equipment at WDTC in support of their operations. Support annual service contracts for equipment operation, diagnostics, and calibration, as well as routine life-cycle and use-related replacement of existing field, administrative, and analytical instrumentation components and systems. Support test facility maintenance, handling and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing and reproduction, and communications.</p> <p>FY 2023 Plans: Funds will provide ongoing sustainment of existing test instrumentation and equipment at WDTC in support of their operations. Support annual service contracts for equipment operation, diagnostics, and calibration, as well as routine life-cycle and use-related replacement of existing field, administrative, and analytical instrumentation components and systems. Support test facility maintenance, handling and disposal of hazardous materials, transportation, postage, administrative supplies, tools, software, spare parts, mission unique installation costs, temporary duty/training of civilian and contractor personnel, certifications, printing and reproduction, and communications.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>				
<p>Title: 4) WDTC, MRTFB, Contractor Support</p> <p>Description: Supports contractor labor costs not billable to customers. Contract labor is essential to augment core civilian T&E personnel with additional capabilities and/or capacity. Functions performed will include chemical and biological analysis, field support, planning, and report documentation as well as range operations, warehousing support, project management, recurring/general maintenance to test facilities and data acquisition support.</p> <p>FY 2022 Plans: Funds continue to support contractor labor costs not billable to customers.</p> <p>FY 2023 Plans:</p>		13.363	12.562	11.246

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Funds will continue to support contractor labor costs not billable to customers.				
FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.				
Accomplishments/Planned Programs Subtotals		60.604	60.560	59.190
		FY 2021	FY 2022	
Congressional Add: 1) Chemical/Biological Defense Testing		5.000	5.000	
FY 2021 Accomplishments: Conducted testing upgrades and modernization to support chemical/biological defense testing at West Desert Test Center.				
FY 2022 Plans: Continue testing upgrades and modernization to support chemical/biological defense testing at West Desert Test Center.				
Congressional Adds Subtotals		5.000	5.000	
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				

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Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)				Project (Number/Name) LS6 / Laboratory Support (Mgmt Support)			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
LS6: Laboratory Support (Mgmt Support)	-	12.376	10.213	10.291	-	10.291	10.289	10.289	10.289	10.289	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Laboratory Support Research, Development, Test, and Evaluation (RDT&E) Management Support Project provides Department of Defense (DoD) laboratory infrastructure sustainment and modernization to upgrade key systems to current state-of-the-art capabilities. Ensures that the necessary surety operations can be conducted effectively and safely in support of the Chemical and Biological Defense Program (CBDP). As a force multiplier, this Project will provide more robust capabilities to the CBDP and ensure continuity of operations and environmental compliance.

Efforts included in this Project are:

- (1) U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) Laboratory Infrastructure
- (2) U.S. Army Medical Research and Development Command (MRDC) Laboratory Infrastructure

U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) laboratory infrastructure provides sustainment and modernization to research and develop CB defense capabilities that enable the Joint Force to fight and win in contested environments. CBC explores, assesses, and demonstrates operational utility of Integrated Early Warning and Integrated Layered Defense approaches that impact the Warfighter's ability to manage operational decisions while playing a critical role in modernizing the Army and DoD's Biodefense capabilities. CBC assesses and characterizes emerging threats in order to prevent use and avoid surprise in addition to exploring technology integration of CB defense capabilities into combat platforms thus unencumbering the Warfighter.

U.S. Army Medical Research and Development Command (MRDC) laboratory infrastructure provides for laboratory operations, facilities sustainment, and regulatory compliance for critical CB defense activities at the U.S. Army Medical Research Institute for Infectious Diseases (USAMRIID) and the U.S. Army Medical Research Institute for Chemical Defense (USAMRICD). to counter an expanding threat space, exploit advances in technology, and develop and transition CB defense equipment and countermeasures to the Warfighter.

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

	FY 2021	FY 2022	FY 2023
Title: 1) Chemical Biological Center (CBC) Laboratory Infrastructure	10.600	8.643	8.850
Description: U.S. Army Combat Capabilities Development Command (DEVCOM) Chemical Biological Center (CBC) provides sustainment and modernization of critical surety capabilities at key tier 1 Chemical Biological Defense Program (CBDP) laboratories. Consisting of the only Organization for the Prohibition of Chemical Weapons (OPCW) Treaty and flyaway laboratory capability in the United States, which provides chemical analyses in compliance with the Chemical Weapons Convention (CWC)			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) LS6 / Laboratory Support (Mgmt Support)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Implementation Act, and the only CWC Single-Small Scale Facility, which provides critical support to U.S. Army CB Defense operations worldwide through Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND) programs of record, early development for Multi-Phase Chemical Agent Detector (MPCAD), Joint Service Aircrew Mask (JSAM), Joint Expeditionary Collective Protection (JECF), Joint Chem Agent Detector (JCAD), and support of multiple Operational Needs Statements from Combatant Commanders, DEVCOM CBC utilizes continued support to provide vital CBD acquisition life-cycle research, experimentation, and testing in support delivery of CB Defense capabilities to the Warfighter.</p> <p>FY 2022 Plans: Continuation of the sustainment and modernization efforts that support chemical and biological capabilities at DEVCOM CBC. Continual testing and characterization of opioids and other pharmaceutically based agents (PBAs) to inform detection and protection technologies, which include solids handling capabilities that support decontamination capabilities against advanced threat compounds and PBAs at various environmental conditions vital to CB Protection systems and concepts. Continue OPCW support mission by conducting the evaluation of chemical protective items for the Warfighter and Homeland Defense. Conduct carbon testing and SMARTMAN mask tests to protect both the Warfighter and First Responders against chemical and biological threats, including COVID-19. Execute Operational Toxicology research, providing rapid threat agent and toxicology assessments for novel threats. Perform testing, validation, and certification of product lot acceptance and shelf-life extension for all Department of Defense (DoD) activated carbon products.</p> <p>FY 2023 Plans: Continuation of the sustainment and modernization efforts that support chemical and biological research, development, and life-cycle engineering capabilities at DEVCOM CBC. Continue testing and characterization to inform detection, protection, and decontamination capabilities as it relates to CB Protection systems and concepts. Continue OPCW support mission to both the Warfighter and Homeland Defense. Conduct carbon testing and SMARTMAN mask tests to protect both the Warfighter and First Responders. Continue execution of Operational Toxicology research. Perform testing, validation, and certification of product lot acceptance and shelf-life extension for all Department of Defense (DoD) activated carbon products.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>				
<p>Title: 2) Medical Research and Development Command (MRDC) Laboratory Infrastructure</p> <p>Description: U.S. Army Medical Research Institute for Infectious Diseases (USAMRIID) and the U.S. Army Medical Research Institute for Chemical Defense (USAMRICD) provides support to laboratory infrastructure for laboratory operations, facilities sustainment, and regulatory compliance for critical chemical biological defense activities.</p> <p>FY 2022 Plans:</p>		1.776	1.570	1.441

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) LS6 / Laboratory Support (Mgmt Support)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Funds continue to support laboratory support operations, maintenance and repair of existing capabilities, chemical agent security, quality systems compliance, chemical and biological safety, and research protections. Sustain Joint Worldwide Intelligence Communications System (JWICS) access at USAMRICD for Top Secret (TS) and TS/Sensitive Compartmented Information (SCI) onsite communication. The SCI Facility (SCIF) will assist with ensuring USAMRICD meets all security regulations and policies related to its chemical defense mission.</p> <p>FY 2023 Plans: Funds will continue to support laboratory infrastructure for laboratory operations, facilities sustainment, and regulatory compliance for critical chemical biological defense activities at USAMRIID and USAMRICD. Activities supported include elements of laboratory support operations, maintenance and repair of existing capabilities, chemical agent security, quality systems compliance, chemical and biological safety, and/or research protections. Sustain JWICS access at USAMRICD for TS and TS/SCI onsite communication. The SCIF will assist with ensuring USAMRICD meets all security regulations and policies related to its chemical defense mission.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>			
Accomplishments/Planned Programs Subtotals	12.376	10.213	10.291

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

N/A

Remarks

D. Acquisition Strategy

N/A

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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
MS6: Management Support (Mgmt Support)	-	42.800	36.175	54.994	-	54.994	57.649	56.657	57.036	57.938	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Management Support Research, Development, Test, and Evaluation (RDT&E) Project provides management support for the Department of Defense (DoD) Chemical and Biological Defense Program (CBDP). It includes program oversight and integration of overall non-Chemical Biological Radiological Nuclear (CBRN) Defense Equipment (non-CDE) and CBRN Defense Equipment (CDE) programs by the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs (ASD(NCB)) and defense programs through the Deputy Assistant Secretary of Defense for Chemical and Biological Defense (DASD(CBD)).

Efforts included in this Project are:

- (1) Biological Select Agent and Toxins (BSAT) Biorisk Program Office (BBPO)
- (2) Executive Agent (EA) Management
- (3) Joint Acquisition CB Knowledge System Defense Business System (JACKS DBS)
- (4) Joint Requirements Office Management (JRO MGT)
- (5) Joint Test Infrastructure Working Group (JTIWG)
- (6) Office of the Secretary of Defense Management (OSD MGT)
- (7) Joint CBRN Defense Program Analysis and Integration Office Management (PAIO MGT)
- (8) Joint Concepts, Studies, and Analysis (JCSA)
- (9) Workforce and Biosafety - Enhanced Biodefense (WB-ENBD)

BBPO supports the DoD EA and EA Responsible Official (EARO) for BSAT Biosafety and Biosecurity Programs in their responsibilities for mission oversight, technical review, inspection, harmonization of biosafety and biosecurity protocols and procedures across DoD laboratories handling BSAT. Efforts also support the Scientific Gaps in Biorisk Research Program (SGBRP) to address gaps in scientific knowledge to facilitate validation of BSAT protocols and procedures. Closing these gaps will reduce the inherent risks associated with BSAT research in CBDP laboratories and supports research and development work on priority agents. Research projects, selected from an order of merit list are funded for one year.

EA Management conducts coordination and integration of the RD&TE and acquisition requirements of the military departments for CB warfare defense programs of the DoD.

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JACKS DBS is a web-based capability that provides users with a centralized, authoritative and comprehensive source of CBRN equipment information that includes program oversight and integration of CBRN and non-CBRN defense equipment. The project provides for the development, coordination and integration of Joint CBRN defense capability requirements and supports the preparation of Joint Capability System documents.

JRO MGT, through the Joint Requirements Office (JRO) for CBRN Defense, a Chairman's Controlled Activity aligned under the Joint Staff J8, is responsible for representing the Services and Combatant Commands (CCMD) in the requirements generation process for the development of Joint materiel and non-materiel solutions in the medical and physical CBRN defense mission areas. Directly supports the improvement of CBRN defense-related leadership development, education, and training at the Joint and Service levels and provides technical and subject matter expert support in the areas of CBRN Defense/Countering Weapons of Mass Destruction (CWMD), including during CCMD exercises.

JTIWG, through the Chemical, Biological, Radiological and Nuclear Defense (CBRND) Test and Evaluation (T&E) Executive, is responsible for the planning, balancing, and oversight of test infrastructure and test technology requirements to support Developmental Testing (DT) and Operational Testing (OT) of DoD CBRND systems. The JTIWG program supports T&E Early Involvement; test threat planning; T&E studies; and T&E standards planning and development to support CBRND testing for all Services to include medical T&E efforts. The CBRND T&E Executive oversees the Enterprise processes to develop and sustain standardized T&E methodologies and validated instrumentation and infrastructure to ensure the adequacy of test for CBRND systems in alignment with acquisition milestones and associated decision points. The CBRND T&E Executive provides the T&E infrastructure investment strategy and coordinates investment planning and T&E capabilities validation among the Joint Service Community to ensure that program needs are met. The CBRND T&E Executive oversees the T&E processes to ensure end to end feedback loops to support to the Warfighter.

OSD MGT performs program reviews/assessments, provides programmatic PPBE oversight/analysis, provides Congressional issue analysis and support, and financial management. OSD MGT also provides the CBDP Enterprise all aspects of accounting, to include financial statements, reconciliation of budgetary and proprietary accounts, and compliance.

PAIO MGT conducts independent analysis and provides objective advice to the CBDP and CWMD stakeholders to inform senior leader decision-making across the DoD and whole of government partners. PAIO ensures CBRN defense programs mission areas, policies, and processes support operational requirements, promote efficiency and readiness, and meet national security objectives.

JCSA supports foundational Joint Concepts development, studies, and analyses to enable requirements and capabilities development of both medical and physical CBRN defense systems; coordinates WMD/CBRN threat information requirements; and conducts integrated CBRN risk assessments.

WB-END provides centralized DoD expertise, implements biosafety improvements, and adds protections for CBDP defense industrial supply chain and intellectual property.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: 1) Office of the Secretary of Defense (OSD) Biosafety (OSD BIOSAFETY)	2.249	1.956	1.824

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Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) MS6 / Management Support (Mgmt Support)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Description: Biological Select Agent and Toxins (BSAT) Support</p> <p>FY 2022 Plans: Continue to maintain the Joint Interagency Biorisk Program System (JIBS) (Defense BSAT Business System), continue to perform laboratory site visits, participate and oversee laboratory inspections, execute stakeholders meetings, BSRP meetings, SGBRP committees, contribute towards harmonization of the biosafety and biosecurity across DoD BSAT registered laboratories.</p> <p>FY 2023 Plans: Continue to maintain the Joint Interagency Biorisk Program System (JIBS) (Defense BSAT Business System), continue to perform laboratory site visits, participate and oversee laboratory inspections, execute stakeholders meetings, BSRP meetings, SGBRP committees, contribute towards harmonization of the biosafety and biosecurity across DoD BSAT registered laboratories.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>				
<p>Title: 2) BSAT RESEARCH SUPPORT</p> <p>Description: Scientific Gaps in Biorisk Research Program (SGBRP) Support</p> <p>FY 2022 Plans: Conduct two preliminary gap research projects based on a new order of merit list.</p> <p>FY 2023 Plans: Select gap research projects based on a new order of merit list, while remaining in accordance with the Scientific Gap Biorisk Research Program (SGBRP) Charter.</p>		0.959	0.806	0.806
<p>Title: 3) Executive Agent (EA) Management</p> <p>FY 2022 Plans: Funds continue providing support to the DoD EA to conduct coordination and integration of the RDT&E and acquisition requirements of the military departments for CB warfare defense programs of the DoD and review all funding requirements for the CDBP as codified in public law and DoDD 5160.05E.</p> <p>FY 2023 Plans: Funds will continue providing support to the DoD EA to conduct coordination and integration of the RDT&E and acquisition requirements of the military departments for CB warfare defense programs of the DoD and review all funding requirements for the CDBP as codified in public law and DoDD 5160.05E.</p>		0.510	0.940	0.940
<p>Title: 4) Joint Acquisition CB Knowledge System Defense Business System (JACKS DBS)</p>		2.695	3.200	3.500

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) MS6 / Management Support (Mgmt Support)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>FY 2022 Plans: Funds support the CBRN community of users by modernizing the JACKS DBS development platform and migrating the JACKS DBS to the Cloud to ensure the system remains flexible, relevant, reliable and secure.</p> <p>FY 2023 Plans: Funds will update and streamline the JACKS user interface with a more modern look and feel. The updates to the user interface will provide users with a better overall user experience and enable them to find the information they need faster. Additionally, the changes to the user interface will help improve data quality and integrity by making it easier to identify, report, and correct data fed to JACKS from external systems.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>			
<p>Title: 5) Joint Requirements Office Management (JRO MGT)</p> <p>FY 2022 Plans: Funds continue to represent the Services and Combatant Commands (CCMD) in the requirements generation process for materiel and non-materiel solutions in the medial and physical CBRN defense mission areas; conduct foundational studies for the combating weapons of mass destruction (CWMD) / CBRN defense community; and support CCMD exercises. Continue to chair the CBRN Support to Command and Control Sub-working Group supporting the C4Cyber Functional Capabilities Board (FCB) include the preparation and validation of Capability Development Packages and Capability Packages.</p> <p>FY 2023 Plans: Funds will continue to represent the Services and CCMD in the requirements generation process for Joint materiel and non-materiel solutions in the medical and physical CBRN defense mission areas; conduct foundational studies for the CWMD / CBRN defense community; provide support to Joint and Multi-service doctrine development, including the preparation of various Joint publications which then inform MTTPs. Continue to support CBRN/CWMD training efforts at various Joint Senior Leadership schools. Continue to support COCOM scenario development and controller/evaluator training and provide expertise to CCMD exercises. Continue to chair the CWMD Working Group to ensure synchronized JCIDS documents are appropriately vetted and staffed prior to being brought to the Protection Functional Capabilities Board. Continue to chair the CBRN Support to Command and Control Sub-working Group supporting the C4Cyber FCB include the preparation and validation of Capability Development Packages and Capability Packages.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p>	5.132	6.568	9.160

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) MS6 / Management Support (Mgmt Support)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Increase due to change in program/project technical parameters. Funding was transferred from DT6 and consolidated under MS6 as part of the budget restructure.				
Title: 6) Joint Test Infrastructure Working Group (JTIWG)		6.068	5.749	6.287
<p>FY 2022 Plans: Funds support continued Test and Evaluation (T&E) Executive mission support to ensure credible testing; T&E Early Involvement; T&E Studies; evaluation and decision support for CBDP systems; supported the Director of Operational T&E (DOT&E) for OSD T&E Oversight; supported the NCB in infrastructure planning; continued efforts to develop, refine, and/or streamline processes for identifying, assessing, and addressing gaps in T&E capabilities to ensure timely support to acquisition programs. Continued mission to improve the quality and reduce the costs of test planning and execution; eliminated unnecessary redundancies in test infrastructure. Continued efforts to identify and mitigate critical T&E Gaps in order to reduce cost/test schedule impacts to near-term programs. Continued to align and streamline policies and processes to support more efficient and effective management and sustainment of test infrastructure and methodologies.</p> <p>FY 2023 Plans: Continue T&E Executive mission support to ensure credible testing; T&E Early Involvement; T&E Studies; evaluation and decision support for CBDP systems; support the DOT&E for OSD T&E Oversight; support the NCB in infrastructure planning; continue efforts to develop, refine, and/or streamline processes for identifying, assessing, and addressing gaps in T&E capabilities to ensure timely support to acquisition programs. Continue mission to improve the quality and reduce the costs of test planning and execution; eliminate unnecessary redundancies in test infrastructure. Continue efforts to identify and mitigate critical Test and Evaluation Gaps in order to reduce cost/test schedule impacts to near-term programs. Continue to align and streamline policies and processes to support more efficient and effective management and sustainment of test infrastructure and methodologies.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>				
Title: 7) Office of the Secretary of Defense Management (OSD MGT)		15.882	8.354	15.565
<p>FY 2022 Plans: Funds continue performing program reviews/assessments, providing planning, programming, budgeting, and execution (PPBE) oversight/analysis, and providing Congressional issue analysis and support. Supporting financial management services provided by the Defense Threat Reduction Agency (DTRA), such as funding distribution and execution reporting. Continue to provide the CBDP Enterprise all aspects of accounting; financial statements; reconciliation of budgetary and proprietary accounts, processing of commitments and obligations; financial accounting compliance; funds management and control; management of the Managers' Internal Control Program and financial systems integration and coordination.</p> <p>FY 2023 Plans:</p>				

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) MS6 / Management Support (Mgmt Support)		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Funds will continue performing program oversight/reviews/assessments, leading PPBE processes, and supporting strategic and Congressional engagements. Funds Defense Finance and Accounting Service transactions and direct support. Continues to support financial management and audit functions for the CBDDP Enterprise including all aspects of accounting; financial statements; reconciliation of budgetary and proprietary accounts, processing of commitments and obligations; financial accounting compliance; funds management and control; management of the Managers' Internal Control Program and financial systems integration and coordination.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase due to change in program/project technical parameters. Increased support for strategic high priority efforts.</p>				
<p>Title: 8) Program Analysis and Integration Office Management (PAIO MGT)</p> <p>FY 2022 Plans: Funds continue to analyze and evaluate CWMD defense plans, programs, and budgets in relation to U.S. defense objectives, projected threats, allied contributions, estimated costs, and resource constraints. Review, analyze, and evaluate CWMD defense programs for execution of approved strategies and policies. Promote improved analytical skills and competencies, tools, data, and methods for analyzing CWMD defense planning and the allocation of resources. Ensure that the costs/budget justification for CWMD defense programs are presented accurately and completely. Provide independent analytic advice and evaluate alternative policies to ensure that CWMD defense programs can be implemented.</p> <p>FY 2023 Plans: Funds will continue to analyze and evaluate CWMD defense plans, programs, and budgets in relation to U.S. defense objectives, projected threats, allied contributions, estimated costs, and resource constraints. Review, analyze, and evaluate CWMD defense programs for execution of approved strategies and policies. Promote improved analytical skills and competencies, tools, data, and methods for analyzing CWMD defense planning and the allocation of resources. Ensure that the costs/budget justification for CWMD defense programs are presented accurately and completely. Provide independent analytic advice and evaluate alternative policies to ensure that CWMD defense programs can be implemented.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Minor change due to routine program adjustments.</p>		9.305	8.602	8.592
<p>Title: 9) Joint Concepts, Studies, and Analysis (JCSA)</p> <p>FY 2023 Plans: Funds will conduct the follow-on study/assessment to the FY20 CBRN Response Enterprise Capability Based Assessment. Initiate a Post-Integrated Early Warning "Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities" (DOTMLPF-P) Change Recommendation Study/Assessment. Sponsor the first Personal Contamination Mitigation (Wound and Ocular Decontamination) Analysis of Alternatives. Plan and conduct all modelling and scenario development in</p>		-	-	1.320

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)	Project (Number/Name) MS6 / Management Support (Mgmt Support)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
support of CASSANDRA 24, the preeminent CBRN-focused Operational Risk Analysis exercise. Continue to update detailed operational risk analyses to support CBDP leadership decisions. FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred from another Project due to budget restructure. FY22 funding (\$0.940 Million) remains in O49.			
Title: 10) Workforce and Biosafety - Enhanced Biodefense (ENBD) Description: This effort will focus on Biodefense and Biosafety Expertise & Technology Protection & Supply Chain Risk Management (Biosecurity) FY 2023 Plans: Provide technical subject matter expertise and acquisition program management to work across the research, development, and acquisition enterprise, to include collaborative efforts with the Defense Advanced Research Projects Agency and the Defense Health Agency, as well as with the interagency through the Public Health Emergency Medical Countermeasures Enterprise. Establish an enduring capability to surveil, address threats, and mitigate risks related to the CBDP supply chain, its cybersecurity, protection of intellectual property, and information security. FY 2022 to FY 2023 Increase/Decrease Statement: Additional investment in enhanced biodefense and pandemic preparedness.	-	-	7.000
Accomplishments/Planned Programs Subtotals	42.800	36.175	54.994

C. Other Program Funding Summary (\$ in Millions) N/A
Remarks
D. Acquisition Strategy N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program										Date: April 2022		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)				Project (Number/Name) DT6 / Joint Doctrine And Training Support (Mgmt Support)			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
DT6: Joint Doctrine And Training Support (Mgmt Support)	-	1.829	2.615	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.444
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Doctrine and Training Support Research, Development, Test, and Evaluation (RDT&E) Management Support Project provides the Joint Requirements Office for Chemical, Biological, Radiological and Nuclear Defense (JRO-CBRND) Training and Leader Education program directly supporting the Chemical Biological Defense Program (CBDP). In FY2023, the CBDP RDT&E Projects have been restructured to align to the CBDP Portfolio. DT6 efforts in FY2022 progress to the Management Support (MS6) portfolio. This restructuring is intended to provide standardization and alignment across CBDP research, development and acquisition efforts.

Efforts included in this Project are:

- (1) Joint Requirements Office Doctrine and Training (JRO DT) ****Progresses to MS6 in FY2023****

JRO DT develops Joint Chemical, Biological, Radiological, and Nuclear (CBRN) defense capability requirements and the improvement of CBRN defense related education and training at the Joint and Service levels. This requirement provides technical and subject matter expert support in the areas of CBRN Defense (CBRND) and Countering Weapons of Mass Destruction (CWMD). Joint and Service training, leadership development, and education includes: (1) The CBDP Joint Senior Leader Course (JSLC) and (2) Assistance in correcting training and doctrine deficiencies covered in the lessons learned process, combat operations, capability development studies and Department of Defense Inspector General (DoDIG) and Government Accountability Office (GAO) reports. Provide contract support to the CBDP-directed Graduate Fellowship Program in CBRN/CWMD Studies.

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

	FY 2021	FY 2022	FY 2023
Title: 1) Joint Requirements Office Doctrine and Training (JRO DT)	1.829	2.615	-
Description: Supports Joint Doctrine, Training, Leader Development & Education.			
FY 2022 Plans: Complete the CBRN/CWMD Graduate Fellowship Program. Continue to support training efforts at various Joint Senior Leadership schools.			
FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred to a new Project due to budget restructure. FY23 funding transferred to MS6.			
Accomplishments/Planned Programs Subtotals	1.829	2.615	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / <i>CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)</i>	Project (Number/Name) DT6 / <i>Joint Doctrine And Training Support (Mgmt Support)</i>

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

Remarks

D. Acquisition Strategy
N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program										Date: April 2022		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605384BP / CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)				Project (Number/Name) O49 / Joint Concept Development (Mgmt Support)			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
O49: Joint Concept Development (Mgmt Support)	-	2.846	0.940	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	3.786
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Concept Development Research, Development, Test, and Evaluation (RDT&E) Management Support Project supports the Joint Requirements Office and the Chairman's Risk Assessment Process by producing, coordinating, & executing Chemical, Biological, Radiological, and Nuclear (CBRN) defense studies, experiments, analyses, and architecture, in order to develop future operational concepts and support the efficient and effective generation of CBRN requirements. In FY2023, the CBDP RDT&E Projects have been restructured to align to the CBDP Portfolio. O49 efforts in FY2022 progress to the Management Support (MS6) portfolio. This restructuring is intended to provide standardization and alignment across CBDP research, development and acquisition efforts.

Efforts included in this Project are:

- (1) Joint Concepts, Studies, and Analyses (JCSA) **Progresses to MS6 in FY2023**

JCSA provides specific lines of effort to include: qualitatively characterizing emerging CBRN threats and operational risks to the Joint Force; conducting innovative approaches to deal with technical studies; analyzing Concepts of Operations (CONOPS) for employing and developing capabilities; and analyzing specific issues as part of program development.

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

	FY 2021	FY 2022	FY 2023
Title: 1) Joint Concepts, Studies, and Analysis (JCSA)	2.846	0.940	-
Description: Support to JCSA			
FY 2022 Plans: Implement the Chairman's Joint Supporting Concept by publishing a new Joint CBRN Defense Modernization Plan. Conduct a study to inform specific requirement Key Performance Parameters and System Attributes (KPPs/KSAs) in an integrated layered defense against persistent chemical agents like Fourth Generation Agents. Continue to sponsor and prepare various JCIDS supporting documents, including AoAs.			
FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred to a new Project due to budget restructure. FY23 funding (\$1.320 Million) transferred to MS6.			
Accomplishments/Planned Programs Subtotals	2.846	0.940	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Chemical and Biological Defense Program		Date: April 2022
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605384BP / <i>CHEMICAL/BIOLOGICAL DEFENSE (RDT&E MGT SUPPORT)</i>	Project (Number/Name) O49 / <i>Joint Concept Development (Mgmt Support)</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A