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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support	<b>R-1 Program Element (Number/Name)</b> PE 0605100D8Z I Joint Mission Environment Test Capability (JMETC)
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	580.405	188.696	187.421	209.008	-	209.008	212.399	193.876	197.757	201.714	-	-
087: JMETC Distributed Test	259.833	53.370	114.899	138.543	-	138.543	140.678	121.230	123.656	126.130	-	-
088: JMETC National Cyber Range (NCR) Complex	320.572	135.326	72.522	70.465	-	70.465	71.721	72.646	74.101	75.584	-	-

**Note**  
 New Start (Y/N): No

**A. Mission Description and Budget Item Justification**

This program supports the Department's initiatives to defend the homeland, deter strategic attacks and aggression while prevailing in conflict, building enduring advantage, and building a resilient Joint Force and defense ecosystem. The Joint Mission Environment Test Capability (JMETC) program provides a Department of Defense (DoD) enterprise-wide test capability to support system-to-system interoperability testing, mission-level environment testing, and cyber event operations, including cyber testing, cyber training, cyber experimentation, and cyber mission rehearsal. The JMETC program implements the infrastructure capabilities defined in the DoD "Testing in a Joint Environment Roadmap" to provide acquisition program managers a robust nation-wide capability to "test like we fight". The JMETC program provides a persistent, distributed test and evaluation (T&E) capability that supports system development to measure and improve interoperability performance and cyber resiliency, which otherwise would not be readily available to Service/Component acquisition programs. The JMETC program is funded within the Research, Development, Test and Evaluation (RDT&E) Management Support Budget Activity because it provides test capability in support of RDT&E programs. By linking distributed facilities, as well as providing the necessary tools, services and subject matter expertise, the JMETC program allows acquisition programs to efficiently evaluate their warfighting capability in a realistic joint mission environment. The JMETC program has been aligned to advance the National Defense Strategy (NDS), to test the development of resilient, survivable, federated networks and information ecosystems from the tactical level up to strategic planning, as well as test and assess cyber defenses, building a more lethal force.

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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605100D8Z I <i>Joint Mission Environment Test Capability (JMETC)</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	189.199	187.421	195.786	-	195.786
Current President's Budget	188.696	187.421	209.008	-	209.008
Total Adjustments	-0.503	0.000	13.222	-	13.222
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.483	-			
• Cancelled Accounts	-0.020	-	-	-	-
• Program Adjustments	-	-	13.222	-	13.222

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

**Project:** 088: *JMETC National Cyber Range (NCR) Complex*  
 Congressional Add: *Data Management/Big Data Analytics*  
 Congressional Add: *Artificial Intelligence Hub Infrastructure*

	<b>FY 2023</b>	<b>FY 2024</b>
	60.000	-
	3.500	-
Congressional Add Subtotals for Project: 088	63.500	-
Congressional Add Totals for all Projects	63.500	-

**Change Summary Explanation**

Changes in FY 2023 are due to SBIR/STTR and Cancelled accounts adjustments.

FY 2025 - A reduction of \$1.958 was applied to meet DoD overall funding reductions, which was spread to mitigate impact. +\$14.760 was added for Kill Webs, JADC2 Development and Experimentation and an inflation adjustment of +\$.420.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605100D8Z / Joint Mission Environment Test Capability (JMETC)	<b>Project (Number/Name)</b> 087 / JMETC Distributed Test
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
087: JMETC Distributed Test	259.833	53.370	114.899	138.543	-	138.543	140.678	121.230	123.656	126.130	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

The Joint Mission Environment Test Capability (JMETC) program provides a Department of Defense (DoD) enterprise-wide test capability to support system-to-system interoperability testing, mission-level environment testing, and cyber event operations, including cyber testing, cyber training, cyber experimentation, and cyber mission rehearsal. The JMETC program implements the infrastructure capabilities defined in the DoD "Testing in a Joint Environment Roadmap" to provide acquisition program managers a robust nation-wide capability to "test like we fight". The JMETC program provides a persistent, distributed test and evaluation (T&E) capability that supports system development to measure and improve interoperability performance and cyber resiliency, which otherwise would not be readily available to Service/Component acquisition programs. The JMETC program is funded within the Research, Development, Test and Evaluation (RDT&E) Management Support Budget Activity because it provides test capability in support of RDT&E programs. By linking distributed facilities, as well as providing the necessary tools, services and subject matter expertise, the JMETC program allows acquisition programs to efficiently evaluate their warfighting capability in a realistic joint mission environment. The JMETC Program has been aligned to advance the National Defense Strategy (NDS), to test the development of resilient, survivable, federated networks and information ecosystems from the tactical level up to strategic planning, as well as test and assess cyber defenses, building a more lethal force.

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

	FY 2023	FY 2024	FY 2025
<b>Title:</b> JMETC Distributed Test	53.370	114.899	138.543
<b>Description:</b> The JMETC Distributed Test project continued expansion of the JMETC Secret Network (JSN) infrastructure to meet requirements. The JMETC Distributed Test project supported DoD distributed test and training events to include: system interoperability certification; system interoperability assessments; command and control systems; air and missile defense; 4th and 5th Generation Aircraft; unmanned aircraft; precision-guided bombs; munitions; missile tracking and guidance; infrared countermeasures; Joint Fires; Joint Close Air Support; and coalition exercises.			
The JMETC Distributed Test project provided test planning support to users and organizations to conduct interoperability testing on numerous DoD systems including: command and control systems; information warfare; air and missile defense; intelligence, surveillance, and sensor systems; surface ships; anti-surface warfare; anti-submarine warfare; tactical radar systems; precision-guided bombs; unmanned aircraft; autonomous aircraft; manned fixed wing aircraft; helicopters; and enterprise information systems.			
The JMETC Distributed Test project assisted customers with the use of distributed test tools and troubleshooting of the end-to-end network infrastructures. In addition, the JMETC team provided on-site support for the execution of large-scale, complex distributed events.			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Office of the Secretary Of Defense		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605100D8Z / <i>Joint Mission Environment Test Capability (JMETC)</i>	<b>Project (Number/Name)</b> 087 / <i>JMETC Distributed Test</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>The JMETC Distributed Test project continued to develop and demonstrate Knowledge Management and Big Data Analytics tools and technologies, in support of JMETC customer needs and requirements. The JMETC Distributed Test project demonstrated a common data analytics framework (CHEETAS) that reduced data access time from weeks to hours and enables big data analytics, data mining, and machine learning application for large T&amp;E data sets. This analytics framework was demonstrated in support of 5th generation platform test and evaluation and during long range missile flight test data reduction efforts</p> <p><b>FY 2024 Plans:</b></p> <ul style="list-style-type: none"> <li>-The JMETC Distributed Test Project will continue the buildout of an All-Domain Test Range to meet the joint test and evaluation needs for Service and Combatant Command in-theater experimentation.</li> <li>-The JMETC Distributed Test Project will continue transition of a DARPA capability for testing simulated and live fielded weapon systems from all operational domains together in a common, distributed environment to evaluate and integrate new joint command and control (C2) systems, novel operational concepts, experimental weapon systems and capabilities.</li> <li>-The JMETC Distributed Test Project will expand T&amp;E tools as a service in the GovCloud. In addition, the JMETC team will provide on-site support for the execution of large-scale, complex distributed events.</li> <li>-The JMETC Distributed Test project will continue to modernize Knowledge Management post-test enterprise service capabilities.</li> <li>-The JMETC Distributed Test project will continue the development of a federated enterprise T&amp;E data repository to support the evaluation of large data sets, including Artificial Intelligence (AI) data.</li> <li>-The JMETC Distributed Test project will continue the build out and acquisition of digital engineering tools and infrastructure to support the development of multi-Service, modernized warfighting capabilities in a digital environment, to include digital engineering infrastructure to support AI development.</li> <li>-The JMETC Distributed Test project will continue to support new and emerging acquisition programs.</li> <li>-The JMETC Distributed Test Project will continue development of a reference implementation of Modular Open Systems Architecture and data-centric approaches to C2 both to enable testing new versions of those standards as well as to serve as the test repository for universal C2 interfaces.</li> </ul>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>-The JMETC Distributed Test project will continue to optimize the JMETC Secret Network (JSN) infrastructure to meet requirements, adding or removing sites as necessary.</p> <p>-The JMETC Distributed Test project will continue supporting DoD distributed test and training events.</p> <p>-The JMETC Distributed Test project will continue providing test planning support to users and organizations to conduct interoperability testing on numerous DoD systems.</p> <p>-The JMETC Distributed Test project will continue to assist customers with the use of distributed test tools and troubleshooting of the end-to-end network infrastructures, to include continued expansion of T&amp;E tools as a service in the GovCloud. In addition, the JMETC team will provide on-site support for the execution of large-scale, complex distributed events.</p> <p>-The JMETC Distributed Test project will transition work developed by DARPA and integrate the capabilities into the National Cyber Range, the distributed test networks, and remote test nodes (located at different test sites), to support the testing of JADC2 systems and applications. The primary focus will be in support of INDOPACOM experimentation and exercise campaigns.</p> <p>- Joint Fires Assessment and Networking Gear build and integration to enable integration of T&amp;E, training and experimentation.</p> <p>- Stand-up and integration of OCONUS JSN with JMETC capabilities to extend CONUS T&amp;E capabilities where needed and support information collection, integration and analysis.</p> <p>- Support of INDOPACOM experimentation exercises integrating SME's and T&amp;E capabilities into the planning, set-up, execution and analysis</p> <p><b>FY 2025 Plans:</b></p> <p>-Increased cloud expansion to enable T&amp;E data availability requirements across the acquisition lifecycle. Expansion of JSN connectivity to CONUS and OCONUS sites to enable integration of T&amp;E capabilities with INDOPACOM. As a recognized enterprise CDS (eCDS) provider, making eCDS improvements to support T&amp;E community emerging requirements to support other than secret and partner releasability requirements. Increased expansion of Development, Security, Operations (DevSecOps) capabilities to enable rapid cyber evaluation, integration and deployment of developed capabilities.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b></p> <p>Increase in FY 2025 supports increased cloud expansion.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		53.370	114.899	138.543

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Office of the Secretary Of Defense										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605100D8Z / Joint Mission Environment Test Capability (JMETC)				<b>Project (Number/Name)</b> 088 / JMETC National Cyber Range (NCR) Complex			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
088: JMETC National Cyber Range (NCR) Complex	320.572	135.326	72.522	70.465	-	70.465	71.721	72.646	74.101	75.584	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**A. Mission Description and Budget Item Justification**

The National Cyber Range Complex (NCRC) is comprised of cyber ranges and a secure distributed network infrastructure to service the cyber range user community. The NCRC currently consists of five functional cyber ranges, including the National Cyber Range in Florida as well as four Regional Service Delivery Points (RSDP) located in Hawaii, Alabama, Maryland, and Massachusetts. To enhance DoD cyber range test and training capability and capacity, the NCRC is being expanded with additional cyber ranges co-located with key Service organizations at Naval Information Warfare Center Atlantic (NIWC LANT), SC; Naval Air Station Patuxent River (NAS Pax River), MD; and 46th Test Wing Eglin Air Force Base (AFB), FL to support an increase of cyber testing of DoD systems as well as training of cyber warfighters. The JMETC Multiple Independent Level of Security (MILS) Network (JMN) currently links 83 sites across the DoD, industry, and academia, providing secure access between cyber ranges, laboratories, and facilities. Both the cyber ranges and the network infrastructure are accredited to support multiple levels of security classifications, specifically configured to meet particular cyber event requirements. The NCRC investments have been aligned to support the National Defense Strategy in improving cyber defense, cyber resilience, cyber lethality, and the continued integration of cyber capabilities into the full spectrum of military operations.

The NCRC conducts cyberspace test and training events for the full spectrum of DoD customers including research, development, acquisition, testing, training and operational Cyber Mission Forces (CMF). The NCRC executes wide variety of event types including science and technology (S&T) demonstrations, developmental test and evaluation (DT&E), operational test and evaluation (OT&E), security controls assessments, capability assessments, cyberspace operations training, development and refinement of cyberspace tactics, techniques, and procedures (TTP), cyber forensics/malware analysis) and cyberspace operations mission rehearsal. The NCRC enables acquisition programs to conduct cybersecurity test and evaluation in an operationally representative cyberspace environment enabling identification, validation and mitigation of vulnerabilities. The NCRC also supports training, mission rehearsal and certification of the CMF in support of US Cyber Command by enabling operational forces to efficiently evaluate cyber warfighting capability in a realistic joint mission environment to include bi-lateral and multi-national exercises.

The NCRC provides secure facilities, technology, processes, and workforce to rapidly create hi-fidelity, mission-representative friendly, neutral, and adversarial cyberspace environments.

The NCRC also facilitates integration of distributed organizations with different missions and workforce relevant to cyber operations (e.g., cyber operators, penetrations testers, cyber assessors, cyber observers, cyber analysts, etc.). The NCRC supports cyber activities across of a full spectrum of DoD systems, including weapon platforms, C4I systems, business systems, network devices, and other systems vulnerable to a cyber-attack. The NCRC extensively utilizes automation to minimize human error, to reduce the time required to set-up for a cyber event, and to ensure repeatable results. In addition, the NCRC employs post-event sanitization techniques on all assets after exposure to malicious code to restore back to a known, clean state, which allows for reuse in future events.

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The NCRC has a multidisciplinary workforce with software, systems, network, virtualization, automation, system administration, and cybersecurity subject matter expertise. In support of successful planning and execution of hosted events, the NCRC workforce helps users define and refine their event objectives, assists with identifying and prioritizing potential vulnerabilities, designs virtualized cyber environments, develops customized traffic generation and instrumentation solutions, integrates 3rd party hardware and software, executes cyber events on behalf of the user, provides cooperative vulnerability and penetration assessments, performs detailed cyber analysis, and delivers detailed reports with actionable information to decision makers. In addition, the NCRC workforce supports both the Executive Agent for Cyber Test Ranges and the Executive Agent for Cyber Training Ranges, to identify and address relevant needs, define and promulgate standards, and seek efficiencies through focused investments.

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

	FY 2023	FY 2024	FY 2025
<p><b>Title:</b> JMETC National Cyber Range Complex (NCRC)</p> <p><b>Description:</b> -The NCRC continued support for over a hundred cyber events, providing cybersecurity T&amp;E support to Major Defense Acquisition Programs (MDAP), Major Automated Information Systems (MAIS) Acquisition Programs, and smaller acquisition programs, as well as cybersecurity training to multiple COCOMS and Service organizations.</p> <p>-The NCRC continued support for cyber testing of systems and subsystems across multiple domains (land, air, sea, and space) relevant to manned and unmanned aircraft, surface ships, command and control systems, data management platforms, weapons platforms, satellites, radars, and missile defense systems.</p> <p>-The NCRC continues to support Cyber Table Tops (CTT) which help acquisition programs identify and prioritize potential vulnerabilities for further assessment and mitigation early in the acquisition lifecycle.</p> <p>-The NCRC continued support to Service Cyber Mission Forces (CMF) with training, certification, mission rehearsal and TTP development focused events.</p> <p>-The NCRC continued support to numerous DoD organizations in cyber activities, including Army CEC Test and Evaluation, Army Combat Capabilities Development Command, Army PEO C3T, Army PEO IEW&amp;S, Army PEO M&amp;S, Army PEO STRI, Army Test and Evaluation Command(ATEC), Defense Research Projects Agency (DARPA), Defense Threat Reduction Agency (DTRA), Integrated Air Missile Defense (IAMD), Joint Staff J6, Missile and Space Intelligence Center (MSIC), Missile Defense Agency (MDA), Mississippi National Guard, NAVAIR PEO(A), NAVAIR PEO(U&amp;W), Naval Air Warfare Center Aircraft Division (NAWCAD), Naval Air Warfare Center Training Systems Division (NAWCTSD), Naval Air Warfare Center Weapons Division (NAWCWD), Naval Air Warfare Center Weapons Division (NAWCWD) China Lake, Naval Air Warfare Center Weapons Division (NAWCWD) Point Mugu, Naval Information Warfare Center (NIWC) Atlantic, Naval Undersea Warfare Center (NUWC) Division Newport, NAVSEA PEO Ships, NAVSEA Red Team, NSWC Dahlgren, Office Secretary of Defense Research and Engineering OUSD(R&amp;E), US Army INSCOM G7, USCYBERCOM, USINDOPACOM, and USMC Information Maneuver Division, and several partner nations.</p>	71.826	72.522	70.465

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>-Activities continued to establish new government-controlled cyber range facilities, to include facility conversion work, procurement of computing resources, physical security accreditation, and development of training courseware for utilization of core NCRC cyber range tools by new NCRC workforce members.</p> <p>-The NCRC established a multi-award IDIQ contract to expand the pool of NCRC contractor workforce members with a diverse set of required knowledge and skills to perform key functions at each NCRC location. Task Orders awards underneath the multi-award IDIQ continue to be executed.</p> <p>-The NCRC implemented an NCRC unclassified (NCRC-U) capability to provide increased access by government, academia, and industry to cyber range resources. The NCRC-U capability hosted cyber T&amp;E workforce development activities for multiple government customers and academia to strengthen cyber vulnerability assessment expertise.</p> <p><b>FY 2024 Plans:</b></p> <p>-The NCRC will continue implementing improvements needed to increase capacity to support increased demand at the current and future cyber ranges.</p> <p>-The NCRC will continue to build out additional dedicated Persistent Testing and Training Environments to support testing and training customers.</p> <p>-The NCRC will continue to operate in support of the growing acquisition program cybersecurity T&amp;E requirements.</p> <p>-The NCRC will continue to provide Cyber Table Top support for acquisition programs to help identify and prioritize potential vulnerabilities early in the development lifecycle.</p> <p>-The NCRC will continue to provide support to U.S. Cyber Command, Joint Staff, and other training and certification events by developing representative blue, red and gray environments.</p> <p>-The NCRC will continue to support DOT&amp;E cyber assessments.</p> <p>-The NCRC will continue to support US Cyber Command and other COCOMS with their training, team certification and mission rehearsal activities.</p>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>-The NCRC will conduct engineering activities to plan for technical refresh of emerging end of life and end of service computing assets.</p> <p>-The NCRC will continue to assess cyber range requirements in close cooperation with the Executive Agents for Cyber Test Ranges and Cyber Training Ranges to build priority cyber range capability and capacity to meet identified RDT&amp;E community and CMF needs.</p> <p>-The NCRC will continue to assist the Executive Agents for Cyber Test Ranges and Cyber Training Ranges to determine requirements and standards needed to integrate these cyber range facilities with existing acquisition system hardware-in-the-loop, software-in-the-loop, and systems integration laboratories to test systems and train operators in a realistic cyber contested environment.</p> <p>-The NCRC will continue to expand the JMN connectivity as needed to provide access to cyber range resources.</p> <p>-The NCRC will continue to initiate new cyber range capability and development to directly address test and training needs.</p> <p>-The NCRC will continue activities to build out new government-controlled cyber range facilities, to include facility conversion work, procurement and installation of computing resources, physical security accreditation, and information system security accreditation.</p> <p>-The NCRC will continue testing of cyber vulnerabilities associated with trusted artificial intelligence systems.</p> <p>-The NCRC will continue workforce development and Unclassified cyber test event execution at the NCRC-U capability.</p> <p>-The distributed cyber test team will complete the transition of technology from DAPRA to the TRMC in support of INDOPACOM requirements.</p> <p><b>FY 2025 Plans:</b> Anticipate expansion of secure, distributed JMN connectivity to an additional 20-30 sites to include OCONUS and Partner facilities. Achieve full operational capability (FOC) at cyber ranges co-located with key Service organizations at Naval Information Warfare Center Atlantic (NIWC LANT), SC; Naval Air Station Patuxent River (NAS Pax River), MD; and 46th Test Wing Eglin Air Force Base (AFB), FL to address growing demand for cybersecurity test, training, experimentation, and mission rehearsal.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b></p>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Decrease in FY 2025 is due to programmatic adjustments.			
<b>Accomplishments/Planned Programs Subtotals</b>	71.826	72.522	70.465

	<b>FY 2023</b>	<b>FY 2024</b>
<b>Congressional Add:</b> Data Management/Big Data Analytics <i>FY 2023 Accomplishments:</i> Program details are classified.	60.000	-
<b>Congressional Add:</b> Artificial Intelligence Hub Infrastructure <i>FY 2023 Accomplishments:</i> Program details are classified.	3.500	-
<b>Congressional Adds Subtotals</b>	63.500	-

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A