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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Navy **Date:** March 2023

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605865N / <i>Operational Test &amp; Eval Capability</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	25.326	27.808	29.399	-	29.399	31.001	31.292	31.646	32.306	Continuing	Continuing
0831: <i>OPTEVFOR Support</i>	0.000	23.249	25.681	27.244	-	27.244	28.712	28.965	29.289	29.900	Continuing	Continuing
2958: <i>Cyberspace Activities</i>	0.000	2.077	2.127	2.155	-	2.155	2.289	2.327	2.357	2.406	Continuing	Continuing

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

This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing facilities and conducting operations required for general research, development, test and evaluation.

Headquartered in Norfolk, Virginia, since inception in 1945. OPTEVFOR serves as the Service Operational Test Agency for the Navy, as well as Marine Corps Aviation. In addition to the headquarters element, OPTEVFOR includes a Fleet-scheduling detachment in San Diego, a detachment supporting the Joint Strike Fighter, US Operational Test Team at Nellis, Air Force Base (AFB), NV, and a Surface Warfare Division detachment at Dahlgren, VA. There are four Navy and Marine Corps Squadrons that conduct OT&E under the direction of the Director. Air Test and Evaluation Squadron ONE (VX-1), located at Patuxent River, MD, is under the administrative control of Commander, Naval Air Forces, Atlantic. Air Test and Evaluation Squadron NINE (VX-9), located at China Lake, CA, is under the administrative control of Commander, Naval Air Forces, Pacific. Marine Operational Test and Evaluation Squadron ONE (VMX-1), located at Yuma, AZ is administratively aligned under the Deputy Commandant for Aviation. Marine Helicopter Squadron ONE (HMX-1), located at Quantico, VA, responsible for OT of aircraft assigned for Presidential transport.

OPTEVFOR is a competency- and warfare-aligned organization. Rather than a strict Fleet military structure, OPTEVFOR's Warfare Divisions are fully responsible for delivering test documents ready for the Director's signature and executing and reporting adequate operational test and evaluation (OT&E) for Naval systems and capabilities. They are supported by Competency Divisions, whose job is to ensure the product meets technical requirements, and DoN and the Director's standards.

There are seven warfare divisions that are supported by competency divisions. The warfare divisions include Undersea Warfare (40), Air Warfare (50), Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) (60), Surface Warfare (70), Expeditionary Warfare and Littoral Combat Ship (LCS) (80), and Advanced Programs (90). Each warfare division has a Navy Captain as the division Director with a senior civil servant as the Deputy or a senior civil servant as the division Director and a Navy Commander as the Deputy.

There are four competency divisions: Policy, Operations and Training (01A), Test Design and Modeling Simulation (01B), Test Planning and Evaluation(01C), and Cybersecurity Testing (01D). In addition, the Technical Director (00TD) supports all divisions on technical aspects of the test products. Other business divisions include the Staff Commanding Officer and Administration (10), Chief Information Officer (CIO) (20), Contracts (01K), and the Comptroller (30).

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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605865N / <i>Operational Test &amp; Eval Capability</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2022</u></b>	<b><u>FY 2023</u></b>	<b><u>FY 2024 Base</u></b>	<b><u>FY 2024 OCO</u></b>	<b><u>FY 2024 Total</u></b>
Previous President's Budget	24.872	27.808	29.831	-	29.831
Current President's Budget	25.326	27.808	29.399	-	29.399
Total Adjustments	0.454	0.000	-0.432	-	-0.432
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.454	0.000			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-0.759	-	-0.759
• Rate/Misc Adjustments	0.000	0.000	0.327	-	0.327

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 1319 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605865N / <i>Operational Test &amp; Eval Capability</i>				<b>Project (Number/Name)</b> 0831 / <i>OPTEVFOR Support</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
0831: <i>OPTEVFOR Support</i>	0.000	23.249	25.681	27.244	-	27.244	28.712	28.965	29.289	29.900	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

This program element (PE) provides Operational Test and Evaluation Force (OPTEVFOR) general support funding for headquarters annual operating expenses and ensures OPTEVFOR compliance with Secretary of Defense (SECDEF) and Secretary of the Navy (SECNAV) directives during the conduct of independent operational testing and evaluation. This funding supports planning, testing, and reporting on the operational effectiveness, suitability, and cyber survivability of new and improved systems and recommending fleet usage to the Chief of Naval Operations (CNO). Funding also supports initiatives (including the manpower to execute) that improve OPTEVFOR's ability to develop "minimum, adequate" test strategies maximizing efficiencies and minimizing assets required to conduct planned operational testing, thereby driving down overall test and evaluation costs for the Navy. The CNO, as well as acquisition executives and managers at all levels, have a continuing need for expeditious and efficient conduct of Operational Test and Evaluation (OT&E) by OPTEVFOR to provide new warfighting capabilities to the fleet. To this end, this funding supports OPTEVFOR's continued pursuit of a variety of initiatives aimed at increasing efficiencies in T&E; these initiatives include IT Network, database and decision-making technology upgrades, Integrated Testing and Mission Based Test Design across all programs, and improved staffing and expertise in the areas of DON acquisition processes, Modeling and Simulation, Statistical Studies, Information Assurance, and similar disciplines. All of these are aimed at improving the quality of test and evaluation, thus ensuring delivery to fleet units fully tested and capable combat systems. OT&E issues have direct long-term Navy-wide implications on the Fleet's readiness and warfighting capability. Rapid advances in technology, changes in fleet tactics, and increased complexity of weapons systems and platforms have created an increased need for technical and operational analyses that are sophisticated and timely in order to ensure an optimal return on investment of Navy resources.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<b>Title:</b> OPTEVFOR SUPPORT	23.249	25.681	27.244	0.000	27.244
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> Funding in this project funds the civilian salaries and operating costs for the Operational Test and Evaluation Force (OPTEVFOR). In addition, it supports several initiatives aimed at increasing efficiencies in Test and Evaluation (T&E) to facilitate the Navy's ability to deliver warfighting capability to the fleet at the speed of relevance. These initiatives include IT Network, database and decision-making technology upgrades; implementation of Integrated Testing and Mission Based Test Design across all programs; and improved staffing and expertise in the areas of DON acquisition processes, Modeling and Simulation, Statistical Studies, Information Assurance, and related disciplines. All of these initiatives are aimed at improving the quality of testing and evaluation, thus ensuring delivery to fleet units of appropriately tested and capable combat capabilities.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605865N / <i>Operational Test &amp; Eval Capability</i>	<b>Project (Number/Name)</b> 0831 / <i>OPTEVFOR Support</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<p><b><i>FY 2023 Plans:</i></b></p> <ul style="list-style-type: none"> <li>- This project will fund civilian salaries and operating costs for OPTEVOR.</li> <li>- Continue efforts to enhance and improve test processes and products in support of increasing the value of OT&amp;E; tailoring of processes and methods to ensure relevance for adaptive acquisition pathways and Agile IT systems will continue to mature.</li> <li>- Continue to support Warfare Capability Baseline (WCB) assessments and report on the Navy's capability across all platforms, networks, weapons, or sensors. The WCB is a Fleet-prioritized system-of-systems technical feasibility assessment of kill chains and their supporting effects chains based on real world data, which includes Operational Test data, Fleet data, and Developmental Test data collected in representative operational environments and configurations. These data further include modeling and simulation data accredited by OPTEVFOR for use in operational evaluations. OPTEVFOR coordinates with Warfighting Development Centers and Systems Command tactical and technical experts to transition Operational Test data and insights into kill chain knowledge to enhance warfighting readiness.</li> <li>- Analyze performance across warfare domains; continue to collaborate across warfare domains to maximize lessons learned, share resources, gain efficiencies in testing, and provide value to the Fleet, Warfighting Development Centers, and acquisition decision makers.</li> <li>- Implement the Six Core Test Principles for Adaptive, Relevant Testing through an emphasis on Capabilities Based Test and Evaluation; leveraging Mission Based Test Design (MBTD) throughout all test phases of test programs to facilitate early learning to accelerate delivery of combat capabilities to the Fleet.</li> <li>- Continue the refinement of Platform Mission Task (PMT) Views as a means to visualize knowledge about system performance in terms of Navy mission capabilities.</li> <li>- Initiate efforts to deliver data on cyber kill chains impacting the mission effectiveness of the Navy's warfighting systems, OPTEVFOR is focusing on bringing more cyber T&amp;E expertise and cyber threat realism directly to the Fleet. Initiative includes improving and expanding the cybersecurity test workforce achieving a National Security Agency Red Team certification and NIPR/SIPR/.COM infrastructure accreditation to support remote operations across the DoD Information Network enclaves. These efforts will enable enhanced operational realism during planned cyber T&amp;E test phases by portraying realistic remote, outsider cyber threats to systems across the various security enclaves in the Navy's enterprise networks.</li> <li>- Another facet of OPTEVFOR's cybersecurity efforts includes increased test support involving non-enterprise systems (i.e., Internet Protocol (IP) based). A significant portion of the Navy's warfighting capabilities depend on</li> </ul>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy		<b>Date:</b> March 2023
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**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<p>non-IP, commercial based systems; the same systems used in the commercial sector that come under cyber-attack. Expansion of the cybersecurity test workforce will allow testing of non-IP systems such as: industrial control systems, data buses, radio frequency-based information systems, etc.</p> <p><b>FY 2024 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- This project will fund civilian salaries and operating costs for OPTEVFOR. It is noted that OPTEVFOR was included in the Flag billet reduction, which led to a change of office and modifying the leadership structure to be civilian based.</li> <li>- Continue efforts to enhance and improve test processes and products in support of increasing the value of OT&amp;E; tailoring of processes and methods to ensure relevance for adaptive acquisition pathways and Agile IT systems will continue to mature.</li> <li>- Continue to support Warfare Capability Baseline (WCB) assessments and report on the Navy's capability across all platforms, networks, weapons, or sensors. The WCB is a Fleet-prioritized system-of-systems technical feasibility assessment of kill chains and their supporting effects chains based on real world data, which includes Operational Test data, Fleet data, and Developmental Test data collected in representative operational environments and configurations. These data further include modeling and simulation data accredited by OPTEVFOR for use in operational evaluations. OPTEVFOR coordinates with Warfighting Development Centers and Systems Command tactical and technical experts to transition Operational Test data and insights into kill chain knowledge to enhance warfighting readiness.</li> <li>- Analyze performance across warfare domains; continue to collaborate across warfare domains to maximize lessons learned, share resources, gain efficiencies in testing, and provide value to the Fleet, Warfighting Development Centers, and acquisition decision makers.</li> <li>- Bridge Fleet-to-acquisition communication seams through greater external engagement with Warfighting Development Centers, implementation of Capabilities Based T&amp;E (CBTE) across the Enterprise, re-tooling Cyber OT&amp;E, and continuously improving our operations, training and knowledge management.</li> <li>- A high level summary of the focus area initiatives relevant to the levels of effort identifiers from the NAVPLAN Implementation Framework are adaptive relevant testing (ART), external engagement, cyber, and command operations. ART initiatives include collaboration across external OT&amp;E stakeholders to implement the OTA6 core principles; align OPTEVFOR's organizational structure, training, and testing approach to the OTA6 core principles; and to identify barriers and opportunities in Naval Aviation T&amp;E to bring efficiency and improve the outcomes for the warfighters by delivering capability faster while preserving test adequacy. External engagement initiatives include providing information that addresses operational knowledge gaps and is</li> </ul>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<p>straightforward to understand and implement (R5); ensure that customers receive information that directly addresses their demonstrated needs within an operationally relevant timeframe (Ca); and participate in Fleet Experimentation within OPTEVFOR capabilities to better understand external and internal benefits of working with the Fleet in this area. Cyber initiatives include integrating System Under Test (SUT) cyber survivability data from Developmental Testing into OT&amp;E and conduct platform level cyber survivability evaluations during OT. Command Operations initiatives include developing and implementing knowledge management with a focus on effective storage and dissemination of institutional knowledge; develop and implement human capital with a focus on enabling dynamic prioritization of hiring requirements and resources (S3); infrastructure with the focus on establishing the foundation needed to support operations (S2); process improvement with the focus on improve visibility and tracking for contract and finance processes; and execution of the command leadership restructure in response to Service directed Flag billet reduction.</p> <p><b>FY 2024 OCO Plans:</b> N/A</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase from FY23 to FY24 reflects an increase in requirements for cybersecurity test and evaluation of non-IP based systems across aviation, submarine, surface, expeditionary, C4ISR and facility security platforms and programs.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	23.249	25.681	27.244	0.000	27.244

<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A
<b>Remarks</b>
<b>D. Acquisition Strategy</b> OPTEVFOR leverages a Firm Fixed Price, multi-award contract for services.

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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
2958: <i>Cyberspace Activities</i>	0.000	2.077	2.127	2.155	-	2.155	2.289	2.327	2.357	2.406	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

This project funds the civilian salaries and supports associated maintenance and sustainment of cyber hygiene and resiliency of network infrastructure, as well as enterprise IT services for OPTEVFOR operational support networks. Additionally, these funds ensure the hardware and software required to maintain is in compliance with cybersecurity directives that support command operations as required. The Cyber Pure funding under this project directly supports the Assessment & Authorization (A&A) of OPTEVFOR IT systems and the monthly patching and scanning, and reauthorization required for continuous monitoring.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<b>Title:</b> Cyberspace Activities	2.077	2.127	2.155	0.000	2.155
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> Funding will support maintenance of cyber hygiene and resiliency of network infrastructure and enterprise IT services for OPTEVFOR operational support networks, as well as the hardware and software required to maintain compliance with cybersecurity directives. Funding ensures ability of OPTEVFOR network engineers to comply with cybersecurity requirements for the networks used in support of command operations as required in DoD Instruction (DoDI) 8510.01, Risk Management Framework (RMF) for DoD Information Technology (IT) and DoDI 8500.01, Cybersecurity. Facilitates the monthly network patching and scanning required to protect networks from cyber-attacks and intrusions.					
<b>FY 2023 Plans:</b> Maintain compliance with cybersecurity requirements associated with Director, Operational Test and Evaluation Force's information technology and associated networks. Conduct required vulnerability scans and install necessary network patches to ensure cybersecurity of critical network infrastructure.					
<b>FY 2024 Base Plans:</b> Maintain compliance with cybersecurity requirements associated with Director, Operational Test and Evaluation Force's information technology and associated networks. Conduct required vulnerability scans and install necessary network patches to ensure cybersecurity of critical network infrastructure.					
<b>FY 2024 OCO Plans:</b>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
N/A					
<b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Funding increase from FY23 to FY24 due to CIVPERS pricing adjustment.					
<b>Accomplishments/Planned Programs Subtotals</b>	2.077	2.127	2.155	0.000	2.155

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A