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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Navy **Date:** May 2021

<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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	24.654	26.092	24.872	-	24.872	-	-	-	-	-	-
0831: <i>OPTEVFOR Support</i>	0.000	22.779	24.058	22.795	-	22.795	-	-	-	-	-	-
2958: <i>Cyberspace Activities</i>	0.000	1.875	2.034	2.077	-	2.077	-	-	-	-	-	-

**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, Joint Operational Test Team at Edwards, Air Force Base (AFB), CA, 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 Commander. 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, was historically assigned responsibility for United States Marine Corps (USMC) rotary wing OT. Due to the growth of its principal responsibilities for Presidential transport, most OT&E responsibilities have been realigned to other organizations; however, HMX-1 retains responsibility for OT of aircraft assigned for Presidential transport.

OPTEVFOR is a competency- and warfare-aligned organization. Rather than a strict Fleet military structure, OPTEVFOR has Warfare Division Directors who are fully responsible for delivering test documents ready for the Commander's signature; they are supported by competency division owners, whose job is to ensure the product meets technical requirements and the Commander's standards.

There are seven warfare divisions and a Joint Strike fighter (JSF) Detachment at Edwards AFB 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. The JSF Detachment manages Navy requirements in test and evaluation of the F-35 and is a member of the Joint Operational Test Team.

There are four competency divisions: Policy and Operations (01A), Test Design (01B), Test Planning and Analysis (01C), and Cybersecurity Testing (01D). In addition, the Technical Director (00TD) supports all divisions on technical aspects of the test products. Other support 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	25.145	27.241	25.492	-	25.492
Current President's Budget	24.654	26.092	24.872	-	24.872
Total Adjustments	-0.491	-1.149	-0.620	-	-0.620
• Congressional General Reductions	-	-0.115			
• Congressional Directed Reductions	-	-1.034			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.491	0.000			
• Program Adjustments	0.000	0.000	-0.644	-	-0.644
• Rate/Misc Adjustments	0.000	0.000	0.024	-	0.024

**Change Summary Explanation**

The FY2022 funding request was reduced by \$0.644 million to account for the availability of prior year execution balances.

FY22 Continues the implementation of the COMOPTVEFOR 2025 Strategy to improve the validity of test data and speed at which it is provided to the Navy Acquisition Program Offices and Senior Navy Leadership. Fund civilian labor, travel, transportation, equipment, supplies, communication, equipment maintenance, purchased service contracts, annual utilities and any costs necessary to manage and sustain headquarters operations.

Technical: N/A

Schedule: N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Navy										<b>Date:</b> May 2021		
<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 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
0831: <i>OPTEVFOR Support</i>	0.000	22.779	24.058	22.795	-	22.795	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

This program element (PE) provides Commander, Operational Test and Evaluation Force (COMOPTEVFOR) general support funding for headquarters annual operating expenses and ensures COMOPTEVFOR 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 COMOPTEVFOR'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 COMOPTEVFOR to provide new warfighting capabilities to the fleet. To this end, this funding supports COMOPTEVFOR'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, 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 similar disciplines. All of these initiatives are aimed at improving the quality of test and evaluation, thus ensuring delivery to fleet units of 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 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
<b>Title:</b> OPTEVFOR SUPPORT	22.779	24.058	22.795	0.000	22.795
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> Funding in this project funds the civilian salaries and operating costs for the Commander, Operational Test and Evaluation Force (COMOPTEVFOR). 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 2022 Navy		<b>Date:</b> May 2021
<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. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
<p><b><i>FY 2021 Plans:</i></b>                      Continue to maintain and operate mission essential/core test support resources.                      - This project will fund civilian salaries and operating costs for COMOPTEVOR.                      - 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.                      - Continue to support Warfare Capability Baseline (WCB) assessments and report on the Navy's capability across all platforms, networks, weapons, or sensors. COMOPTEVFOR 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.                      - 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.                      - Continue the application of COMOPTEVFOR cyber survivability expertise to improve Navy cybersecurity posture and develop enterprise-wide, efficient and effective cyber testing.-                      - Complete Network Modernization Initiative to update the deteriorating infrastructure and equipment within the COMOPTEVFOR building to include:                      1. Replacement of end-of-life equipment                      2. Replacement of switches and routers                      3. Upgrade of system cabling throughout all spaces                      4. Virtualization and remote access solutions</p> <p><b><i>FY 2022 Base Plans:</i></b>                      - This project will fund civilian salaries and operating costs for COMOPTEVOR.                      - 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.                      - 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 COMOPTEVFOR for use in operational evaluations. COMOPTEVFOR coordinates with Warfighting</p>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Navy		<b>Date:</b> May 2021
<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 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
<p>Development Centers and Systems Command tactical and technical experts to transition Operational Test data and insights into kill chain knowledge to enhance warfighting readiness.</p> <ul style="list-style-type: none"> <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 and expand the application of COMOPTEVFOR cyber survivability expertise to improve Navy cybersecurity posture and develop enterprise-wide, efficient and effective cyber testing; increase the fidelity and capacity for system, system-of-systems, and platform level cyber survivability evaluations, including non-IP based vulnerabilities, while continuing to provide Combatant Commander and Fleet exercise cyber assessments; integrate COTF results into Navy Enterprise cybersecurity risk-based decision making.</li> </ul> <p><b>FY 2022 OCO Plans:</b> N/A</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding decrease from FY 2021 to FY 2022 is due to the completion of FY21 effort to transition Network Modernization initiative.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	22.779	24.058	22.795	0.000	22.795

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

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<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> 2958 / <i>Cyberspace Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
2958: <i>Cyberspace Activities</i>	0.000	1.875	2.034	2.077	-	2.077	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

cyber pure project

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

This project funds the civilian salaries and support associated maintenance and sustainment of cyber hygiene and resiliency of network infrastructure, as well as enterprise IT services for COMOPTEVFOR 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 COMOPTEVFOR 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<b>Title:</b> Cyberspace Activities	1.875	2.034	2.077	0.000	2.077
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> Funding will support maintenance of cyber hygiene and resiliency of network infrastructure and enterprise IT services for COMOPTEVFOR operational support networks, as well as the hardware and software required to maintain compliance with cybersecurity directives. Funding ensures ability of COMOPTEVFOR 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 2021 Plans:</b> Maintain compliance with cybersecurity requirements associated with Commander, Operational Test and Evaluation Force's (COMOPTEVFOR) information technology and associated networks. Conduct required vulnerability scans and install necessary network patches to ensure cybersecurity of critical network infrastructure.					
<b>FY 2022 Base Plans:</b>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Maintain compliance with cybersecurity requirements associated with Commander, 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 2022 OCO Plans:</b> N/A  <b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> No appreciable change from FY2021 to FY2022.					
<b>Accomplishments/Planned Programs Subtotals</b>	1.875	2.034	2.077	0.000	2.077

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A