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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Navy **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603790N / NATO Research and Deve
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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	119.356	8.010	6.265	5.151	-	5.151	8.206	7.234	6.577	6.746	Continuing	Continuing
2293: <i>NATO Cooperative R &amp; D</i>	119.356	8.010	6.265	5.151	-	5.151	8.206	7.234	6.577	6.746	Continuing	Continuing

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

In accordance with Title 10 United States Code, Section 2350a, this Program Element (PE) provides funding for research and development (R&D) programs with approved allies under international agreements. These funds can only be applied to work efforts in the U.S. The Under Secretary of Defense, Acquisition and Sustainment (USD, A&S) must approve each international agreement. The program provides funds for multiple projects under separately approved international agreements as well as funds that support the establishment of such agreements. Each international agreement is summarized in a separate Summary Statement of Intent (SSOI) that also states why the project serves to increase the defense capabilities of the U.S. The SSOI is used to obtain project approval by the Department of the Navy and the Office of the Secretary of Defense.

The North Atlantic Treaty Organization (NATO) R&D cooperative programs differ from other Research, Development, Test and Evaluation (RDT&E) programs because issuance of funding from this Program Element (PE) coincides with the signature of international agreements. These signatures occur throughout the fiscal year and often encounter unexpected delays during the staffing and negotiation phases of agreement processing prior to signature.

<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	8.041	6.265	8.691	-	8.691
Current President's Budget	8.010	6.265	5.151	-	5.151
Total Adjustments	-0.031	0.000	-3.540	-	-3.540
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.031	0.000			
• Program Adjustments	0.000	0.000	-3.540	-	-3.540
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

**Change Summary Explanation**

Programmatic realignment is for re-baselining and aligning funds into PE 0605853N (Proj 3312 and 0149) and OM&N PE 0708017N (LI 1C4C) to make whole the NATO Fleet Operational Readiness Accuracy Check Site (FORACS) mission due to a newly required NATO Cost-Sharing effort.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 1319 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0603790N / NATO Research and Deve				<b>Project (Number/Name)</b> 2293 / NATO Cooperative R & D			
<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>
2293: NATO Cooperative R & D	119.356	8.010	6.265	5.151	-	5.151	8.206	7.234	6.577	6.746	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

In accordance with Title 10 United States Code, Section 2350a, this PE provides funding for research and development (R&D) programs with approved allies under international agreements. These funds can only be applied to work efforts in the U.S. The Under Secretary of Defense, Acquisition and Sustainment (USD, A&S) must approve each international agreement. The program provides funds for multiple projects under separately approved international agreements as well as funds that support the establishment of such agreements. Each international agreement is summarized in a separate Summary Statement of Intent (SSOI) that also states why the project serves to increase the defense capabilities of the U.S. The SSOI is used to obtain project approval by the Department of the Navy and the Office of the Secretary of Defense.

The North Atlantic Treaty Organization (NATO) R&D cooperative programs differ from other Research, Development, Test and Evaluation (RDT&E) programs because issuance of funding from this PE coincides with the signature of international agreements.

This NATO Research and Development program funds U.S. activities to support the identification and implementation of International Agreements (IAs) intended to address Chief of Naval Operations (CNO) priorities and identified interoperability gaps.

- Projects depend on commitment of U.S. and allies, and are subject to imprecise staffing timelines (funding typically provided when international agreement is signed, often later in the Fiscal Year (FY)).
- Funds must be identified/committed early (1-2 years prior) to indicate support during processing (in Summary Statement of Intent).
- These funds only constitute a portion of U.S. project funding.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> NATO Cooperative R & D	8.010	6.265	5.151	0.000	5.151
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 Plans:</b>					
-Continue to support approved Cooperative projects from prior Fiscal Years.					
-Plan and support approved FY 2024 Cooperative projects.					
Projects may include, but are not limited to:					
-Coalition Underwater Mine and IED Defeat (CUMID) PA [U.S., Canada, and Norway]					
-Compact Common Aperture Dual-Band IR Imaging (CCADBIRI) Band IR Imaging PA [U.S. and Israel]					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603790N / NATO Research and Deve	<b>Project (Number/Name)</b> 2293 / NATO Cooperative R & D
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**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<ul style="list-style-type: none"> <li>-Maritime Automatic Surface Ship Classification (MASSC) PA [U.S. and Australia]</li> <li>-Next Generation Amphibious Technologies (NGAT) PA [U.S. and Japan]</li> <li>-Novel Degraded Visual Environments (Novel DVE) PA [U.S. and UK]</li> <li>-Quantum Enhanced Undersea Surveillance Technology (QuEST) PA [U.S. and Australia]</li> <li>-Low-light Automated Identification System for Maritime Domain Awareness (LLAMDA) PA [U.S., Australia and Norway]</li> <li>-Submarine Technologies PA [U.S. and UK]</li> <li>-Undersea Technologies Capability Development PA [U.S. and Australia]</li> <li>-Advanced Technology Development of Information Related Capabilities (ARD IRC) PA Acoustic Communications (ACOMMS)</li> </ul> <p><b>FY 2025 Base Plans:</b></p> <ul style="list-style-type: none"> <li>-Continue to support approved Cooperative projects from prior Fiscal Years.</li> <li>-Plan and support approved FY 2025 Cooperative projects.</li> </ul> <p>Projects may include, but are not limited to:</p> <ul style="list-style-type: none"> <li>-Coalition Underwater Mine and IED Defeat (CUMID) PA [U.S., Canada, and Norway]</li> <li>-Compact Common Aperture Dual-Band IR Imaging (CCADBIRI) Band IR Imaging PA [U.S. and Israel]</li> <li>-Maritime Automatic Surface Ship Classification (MASSC) PA [U.S. and Australia]</li> <li>-Next Generation Amphibious Technologies (NGAT) PA [U.S. and Japan]</li> <li>-Novel Degraded Visual Environments (Novel DVE) PA [U.S. and UK]</li> <li>-Quantum Enhanced Undersea Surveillance Technology (QuEST) PA [U.S. and Australia]</li> <li>-Submarine Technologies PA [U.S. and UK]</li> <li>-Undersea Technologies Capability Development PA [U.S. and Australia]</li> <li>-Low-light Automated Identification System for Maritime Domain Awareness (LLAMDA) PA [U.S., Australia and Norway]</li> <li>-Lighter Than Air Radar Imaging and Detection (LiTARID) [U.S. and Italy]</li> <li>-Rotating Detonation Engines for Extended Range Ground/Maritime Fires PA (RDE for Extended Fires [U.S. and Canada]</li> <li>-Compact, Agile, and Lightweight Refractive Infrared Non-Mechanical Beam Steering PA (ALIS 2.0)</li> <li>-Counter Fast in-shore Attack Craft (Counter FIAC) [U.S. and Korea]</li> </ul> <p><b>FY 2025 OCO Plans:</b></p>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603790N / NATO Research and Deve	<b>Project (Number/Name)</b> 2293 / NATO Cooperative R & D
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A					
<b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> FY 2025 decrease reflects funding realignment to re-baseline and align funds into PE 0605853N (Proj 3312 and 0149) and OM&N PE 0708017N (LI 1C4C) to make whole the NATO Fleet Operational Readiness Accuracy Check Site (FORACS) mission due to a newly required NATO Cost-Sharing effort.					
<b>Accomplishments/Planned Programs Subtotals</b>	8.010	6.265	5.151	0.000	5.151

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603790N / NATO Research and Deve	<b>Project (Number/Name)</b> 2293 / NATO Cooperative R & D
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<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test and Evaluation	C/FP	NAVSEA : Washington Navy Yard, DC	28.745	1.000	Feb 2023	0.750	Dec 2023	0.500	Sep 2025	-		0.500	Continuing	Continuing	Continuing
Developmental Test and Evaluation	C/FP	NSWC : Carderock/ Bethesda, MD	13.821	0.500	Nov 2022	0.400	Nov 2023	0.500	Dec 2024	-		0.500	Continuing	Continuing	Continuing
Developmental Test and Evaluation	C/FP	NUWC : Newport, RI	3.786	0.300	Dec 2022	0.300	Jan 2024	0.300	Feb 2025	-		0.300	Continuing	Continuing	Continuing
Developmental Test and Evaluation	C/FP	NIWC : San Diego, CA	8.425	0.400	Mar 2023	0.400	Jan 2024	0.400	Jan 2025	-		0.400	Continuing	Continuing	Continuing
Developmental Test and Evaluation	C/FP	NAVAIR : Patuxent River, MD	4.741	0.400	Nov 2022	0.300	May 2024	0.300	May 2025	-		0.300	Continuing	Continuing	Continuing
Developmental Test and Evaluation	C/FP	NRL : Washington, DC	13.316	2.710	Feb 2023	1.765	Dec 2023	1.201	Dec 2024	-		1.201	Continuing	Continuing	Continuing
Developmental Test and Evaluation	C/FP	NAWC : Point Mugu, CA	7.910	0.500	Dec 2022	0.400	Mar 2024	0.400	Mar 2025	-		0.400	Continuing	Continuing	Continuing
Developmental Test and Evaluation	C/FP	MARCOR : Washington.DC	1.200	0.000		0.000		0.000		-		0.000	0.000	1.200	-
Developmental Test and Evaluation	C/FP	NSWCCD : Carderock, MD	3.829	0.000		0.000		0.000		-		0.000	0.000	3.829	-
Developmental Test and Evaluation	C/FP	ONR : Arlington, VA	4.695	0.800	Mar 2023	0.750	Nov 2023	0.250	Dec 2024	-		0.250	0.000	6.495	-
Developmental Test and Evaluation	C/FP	USMC : Quantico, VA	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
Developmental Test and Evaluation	C/FP	NSWC : Indian Head, MD	0.750	0.200	Dec 2022	0.200	Nov 2023	0.200	Dec 2024	-		0.200	0.000	1.350	-
Developmental Test and Evaluation	C/FP	NSWC : Panama City , FL	0.850	0.400	Feb 2023	0.400	Apr 2024	0.400	Apr 2025	-		0.400	0.000	2.050	-
Developmental Test and Evaluation	C/FP	GSA : Washington, DC	0.800	0.000		0.000		0.000		-		0.000	0.000	0.800	-
Developmental Test and Evaluation	C/FP	DISA : Ft Meade MD	1.410	0.000		0.000		0.000		-		0.000	0.000	1.410	-
Developmental Test and Evaluation	C/FP	CDSA : Dam Neck, VA	3.812	0.000		0.000		0.000		-		0.000	0.000	3.812	-



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**Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603790N / NATO Research and Deve	<b>Project (Number/Name)</b> 2293 / NATO Cooperative R & D
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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>Proj 2293</b>	
International Agreements	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603790N / NATO Research and Deve	<b>Project (Number/Name)</b> 2293 / NATO Cooperative R & D

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2293</b>				
International Agreements	1	2023	4	2029