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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 0304270N / <i>Electronic Warfare Development - MIP</i>
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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	7.881	0.796	1.250	1.395	-	1.395	1.411	1.426	1.467	1.497	Continuing	Continuing
2260: <i>Specific Emitter ID</i>	7.881	0.796	1.250	1.395	-	1.395	1.411	1.426	1.467	1.497	Continuing	Continuing

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

This project supports systems development and collection of Specific Emitter Identification (SEI) information from National Technical Means (NTM) to track commercial ships over 200 gross registered tons world-wide. Research and development will cover improvements and enhancements to Electronic Intelligence technology. This will include improved/next generation SEI technology for miniaturization and automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. Propagation in a multi-path signal environment will also be assessed. All work on this project will be undertaken in pursuit of goals stated by the Office of Naval Intelligence and the National Security Agency in support of the Worldwide Ship Tracking Program.

Advanced Component Development and Prototypes (ACD&P) efforts necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment are funded in this Program Element (PE). Most of the work in this PE can be classified between Technology Readiness Level (TRL) 6 (system/subsystem model or prototype demonstration in a relevant environment) and TRL 7 (system prototype demonstration in an operational environment).

This PE is a Military Intelligence Program (MIP).

<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	0.796	1.250	1.392	-	1.392
Current President's Budget	0.796	1.250	1.395	-	1.395
Total Adjustments	0.000	0.000	0.003	-	0.003
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-0.021	-	-0.021
• Rate/Misc Adjustments	0.000	0.000	0.024	-	0.024

**Change Summary Explanation**

Funding: No significant change

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Technical: No significant change		
Schedule: No significant change		

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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 0304270N / <i>Electronic Warfare Development - MIP</i>				<b>Project (Number/Name)</b> 2260 / <i>Specific Emitter ID</i>			
<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>
2260: <i>Specific Emitter ID</i>	7.881	0.796	1.250	1.395	-	1.395	1.411	1.426	1.467	1.497	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

This project supports systems development and collection of Specific Emitter Identification (SEI) information from National Technical Means (NTM) to track commercial ships over 200 gross registered tons world-wide. Research and development will cover improvements and enhancements to Electronic Intelligence technology. This will include improved/next generation SEI technology for miniaturization and automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. Propagation in a multi-path signal environment will also be assessed. All work on this project will be undertaken in pursuit of goals stated by the Office of Naval Intelligence and the National Security Agency in support of the Worldwide Ship Tracking Program.

**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> Sensor Fusion	0.207	0.325	0.360	0.000	0.360
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> This effort supports systems development and information fusion of improved Specific Emitter ID (SEI) technology for automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals.					
<b>FY 2024 Plans:</b> - Continue development of advanced technologies to improve signal processing, signal characterization, de-interleaving of signals, and sensor fusion for national collection systems, which employ SEI technology.					
<b>FY 2025 Base Plans:</b> - Continue development of advanced technologies to improve signal processing, signal characterization, de-interleaving of signals, and sensor fusion for national collection systems, which employ SEI technology.					
<b>FY 2025 OCO Plans:</b> N/A					
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> There is no significant funding change from FY 2024 to FY 2025.					
<b>Title:</b> System Automation	0.317	0.500	0.560	0.000	0.560
<b>Articles:</b>	-	-	-	-	-

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<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0304270N / <i>Electronic Warfare Development - MIP</i>	<b>Project (Number/Name)</b> 2260 / <i>Specific Emitter ID</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<p><b>Description:</b> This effort supports development of an autonomous surveillance system capable of providing emitter signal information to a central location.</p> <p><b>FY 2024 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue development of technologies for an autonomous surveillance system that provides emitter signal information to a central location.</li> <li>- Continue development of improvements and automation of Specific Emitter Identification certification hardware and software.</li> </ul> <p><b>FY 2025 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue development of technologies for an autonomous surveillance system that provides emitter signal information to a central location.</li> <li>- Continue development of improvements and automation of Specific Emitter Identification (SEI) certification hardware and software.</li> </ul> <p><b>FY 2025 OCO Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> There is no significant funding change from FY 2024 to FY 2025.</p>					
<p><b>Title:</b> Technology Refresh and Communication Enhancement</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> This effort improves Specific Emitter ID (SEI) system performance, real-time communication and tactical use of SEI which will be expanded with next generation SEI technology.</p> <p><b>FY 2024 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue improving next generation SEI system performance through developmental improvements in SEI hardware, software and real-time communications.</li> <li>- Continue evaluations of new SEI hardware subsystems for improved SEI system performance.</li> </ul> <p><b>FY 2025 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue improving next generation SEI system performance through developmental improvements in SEI hardware, software and real-time communications.</li> </ul>	0.272 -	0.425 -	0.475 -	0.000 -	0.475 -

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
- Continue evaluations of new Specific Emitter ID (SEI) hardware subsystems for improved SEI system performance.  <b>FY 2025 OCO Plans:</b> N/A  <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> There is no significant funding change from FY 2024 to FY 2025.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.796	1.250	1.395	0.000	1.395

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

N/A

**Remarks**

**D. Acquisition Strategy**

Not applicable.



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Navy</b>		<b>Date:</b> March 2024
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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 2260</b>	
Demonstration: Installation and Testing	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Navy		<b>Date:</b> March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2260</b>				
Demonstration: Installation and Testing	1	2023	4	2025