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

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0304270N / <i>Electronic Warfare Development - MIP</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	7.375	0.506	0.796	1.250	-	1.250	1.392	1.411	1.426	1.467	Continuing	Continuing
2260: <i>Specific Emitter ID</i>	7.375	0.506	0.796	1.250	-	1.250	1.392	1.411	1.426	1.467	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. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.506	0.796	0.680	-	0.680
Current President's Budget	0.506	0.796	1.250	-	1.250
Total Adjustments	0.000	0.000	0.570	-	0.570
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	0.570	-	0.570

Change Summary Explanation

Funding: \$570K increase for projected increase in labor and research costs.

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Technical: No significant change		
Schedule: No significant change		

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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0304270N / <i>Electronic Warfare Development - MIP</i>	Project (Number/Name) 2260 / <i>Specific Emitter ID</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
2260: <i>Specific Emitter ID</i>	7.375	0.506	0.796	1.250	-	1.250	1.392	1.411	1.426	1.467	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)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Title: Sensor Fusion</p> <p align="right">Articles:</p> <p>Description: 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.</p> <p>FY 2023 Plans: - 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.</p> <p>FY 2024 Base Plans: - 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.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: There is no significant funding change from FY 2023 to FY 2024</p>	0.130	0.207	0.325	0.000	0.325
Articles:	-	-	-	-	-
<p>Title: System Automation</p> <p align="right">Articles:</p>	0.200	0.317	0.500	0.000	0.500
Articles:	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Description: This effort supports development of an autonomous surveillance system capable of providing emitter signal information to a central location.</p> <p>FY 2023 Plans: - Continue development of technologies for an autonomous surveillance system that provides emitter signal information to a central location. Continue development of improvements and automation of Specific Emitter Identification certification hardware and software.</p> <p>FY 2024 Base Plans: - Continue development of technologies for an autonomous surveillance system that provides emitter signal information to a central location. - Continue development of improvements and automation of Specific Emitter Identification certification hardware and software.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: There is no significant funding change from FY 2023 to FY 2024</p>					
<p>Title: Technology Refresh and Communication Enhancement</p> <p align="right">Articles:</p> <p>Description: 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>FY 2023 Plans: - Continue improving next generation SEI system performance through developmental improvements in SEI hardware, software and real-time communications. Continue evaluations of new SEI hardware subsystems for improved SEI system performance.</p> <p>FY 2024 Base Plans: - Continue improving next generation SEI system performance through developmental improvements in SEI hardware, software and real-time communications. - Continue evaluations of new SEI hardware subsystems for improved SEI system performance.</p> <p>FY 2024 OCO Plans:</p>	0.176 -	0.272 -	0.425 -	0.000 -	0.425 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A					
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> There is no significant funding change from FY 2023 to FY 2024					
Accomplishments/Planned Programs Subtotals	0.506	0.796	1.250	0.000	1.250

C. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

D. Acquisition Strategy
Not applicable.

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy **Date:** March 2023

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Proj 2260	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Demonstration																																
	Installation and Testing																															

2024DON - 0304270N - 2260

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2260				
Demonstration: Installation and Testing	1	2022	4	2024