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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy	Date: March 2019
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Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0304270N / Electronic Warfare Development - MIP							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	4.968	0.527	0.466	0.609	-	0.609	0.561	0.579	0.584	0.596	Continuing	Continuing
2260: Specific Emitter ID	4.968	0.527	0.466	0.609	-	0.609	0.561	0.579	0.584	0.596	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.

This PE is a Military Intelligence Program (MIP).

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.527	0.466	0.552	-	0.552
Current President's Budget	0.527	0.466	0.609	-	0.609
Total Adjustments	0.000	0.000	0.057	-	0.057
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	0.057	-	0.057

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
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>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
2260: <i>Specific Emitter ID</i>	4.968	0.527	0.466	0.609	-	0.609	0.561	0.579	0.584	0.596	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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: SENSOR FUSION Articles: Description: This effort supports systems development and information fusion of improved SEI technology for automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. FY 2019 Plans: This subarea develops SEI technology for automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. FY 2020 Base Plans: This subarea develops advanced technologies that support the tracking of commercial ships over 200 gross registered tons through improvements in signal processing, de-interleaving of signals, information fusion, and hardware of national collection systems which employ SEI technology. FY 2020 OCO Plans: N/A FY 2019 to FY 2020 Increase/Decrease Statement: There is no significant change from FY 2019 to FY 2020.								0.145	0.130	0.167	0.000	0.167
								-	-	-	-	-
Title: SYSTEM AUTOMATION								0.166	0.149	0.196	0.000	0.196
Articles:								-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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 2019 Plans: This subarea develops an autonomous surveillance system that provides emitter signal information to a central location.</p> <p>FY 2020 Base Plans: This subarea develops technologies that support improvements and enhancements to Electronic Intelligence capabilities using associated technology that provides emitter signal information to a central location from an autonomous surveillance system.</p> <p>FY 2020 OCO Plans: N/A</p> <p>FY 2019 to FY 2020 Increase/Decrease Statement: There is no significant change from FY 2019 to FY 2020.</p>						
<p>Title: TECHNOLOGY REFRESH & COMMUNICATION ENHANCEMENT</p> <p>Articles:</p> <p>Description: This effort improves Specific Emitter Identification (SEI) system performance, real-time communication and tactical use of SEI which will be expanded with next generation SEI technology.</p> <p>FY 2019 Plans: This subarea improves Specific Emitter Identification (SEI) system performance, real-time communication and tactical use of SEI.</p> <p>FY 2020 Base Plans: This subarea improves next generation SEI system performance, situational awareness and the tactical employment of SEI technology through developmental improvements in software and real-time communications.</p> <p>FY 2020 OCO Plans: N/A</p> <p>FY 2019 to FY 2020 Increase/Decrease Statement:</p>		0.216 -	0.187 -	0.246 -	0.000 -	0.246 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
There is no significant change from FY 2019 to FY 2020.					
Accomplishments/Planned Programs Subtotals		0.527	0.466	0.609	0.000
C. Other Program Funding Summary (\$ in Millions) N/A					
Remarks					
D. Acquisition Strategy Not applicable.					
E. Performance Metrics MIP Program.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019		
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Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
NRL	TBD	Not Specified : Not Specified	4.968	0.527	Jan 2018	0.466	Jan 2019	0.609	Jan 2020	-		0.609	Continuing	Continuing	Continuing
Subtotal			4.968	0.527		0.466		0.609		-		0.609	Continuing	Continuing	N/A

	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.968	0.527	0.466	0.609	-	0.609	Continuing	Continuing	N/A

Remarks

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Appropriation/Budget Activity
1319 / 4

R-1 Program Element (Number/Name)
PE 0304270N / *Electronic Warfare Development - MIP*

Project (Number/Name)
2260 / *Specific Emitter ID*

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2020DON - 0304270N - 2260

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy		Date: March 2019
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>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2260</i>				
Demonstration: Installation and Testing	1	2019	4	2024