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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy	Date: February 2015
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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0304270N / <i>Electronic Warfare Development - MIP</i>							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	3.466	0.153	0.332	0.580	-	0.580	0.465	0.465	0.477	0.486	Continuing	Continuing
2260: <i>Specific Emitter ID</i>	3.466	0.153	0.332	0.580	-	0.580	0.465	0.465	0.477	0.486	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.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>
Previous President's Budget	0.153	0.332	0.575	-	0.575
Current President's Budget	0.153	0.332	0.580	-	0.580
Total Adjustments	-	-	0.005	-	0.005
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-	-	0.005	-	0.005

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

UNCLASSIFIED

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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>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2260: <i>Specific Emitter ID</i>	3.466	0.153	0.332	0.580	-	0.580	0.465	0.465	0.477	0.486	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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 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 2014 Accomplishments: - Continued task to fuse additional sources of data with SEI data for automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. Work toward increasing sensor fusion, collection and reporting automation helped reduce staffing and support remote access and control capability. FY 2015 Plans: - Continue all efforts of FY 2014. FY 2016 Base Plans: - Continue all efforts of FY 2015 FY 2016 OCO Plans: N/A								0.048	0.100	0.187	-	0.187
								-	-	-	-	-
								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 2014 Accomplishments: - Continued task to fuse additional sources of data with SEI data for automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. Work toward increasing sensor fusion, collection and reporting automation helped reduce staffing and support remote access and control capability.				
FY 2015 Plans: - Continue all efforts of FY 2014.												
FY 2016 Base Plans: - Continue all efforts of FY 2015												
FY 2016 OCO Plans: N/A												
Title: SYSTEM AUTOMATION								0.052	0.132	0.201	-	0.201
Articles:								-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Description: This effort supports development of an autonomous surveillance system capable of providing emitter signal information to a central location. FY 2014 Accomplishments: - Continued task to develop an unmanned, autonomous, remote collection and surveillance system. - Continued task to automate fusion of other sensor information with SEI data collection. FY 2015 Plans: - Continue all efforts of FY 2014. FY 2016 Base Plans: - Continue all efforts of FY 2015. FY 2016 OCO Plans: N/A						
Title: TECHNOLOGY REFRESH & COMMUNICATION ENHANCEMENT Articles: Description: This effort improves SEI system performance, real-time communication and tactical use of SEI which will be expanded with next generation SEI technology. FY 2014 Accomplishments: - Continued task to incorporate other SEI algorithms into deployed processing software - Continued task on integrating advanced SEI hardware with WinSEI software to support improved SEI system performance and capabilities for tactical and technical use, and which can be expanded with next generation SEI algorithms. - Continued task to incorporate further message reporting formats for dissemination of SEI data and improve SEI interoperability. - Continued task to expand collection capability to support additional radar types. FY 2015 Plans: - Continue all efforts of FY 2014. FY 2016 Base Plans: - Continue all efforts of FY 2015.		0.053 -	0.100 -	0.192 -	- -	0.192 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
- Complete task to incorporate further message reporting formats for dissemination of SEI data and improve SEI interoperability. - Initiate task to provide software enhancements to improve SEI system performance based on mission needs and requirements, user inputs, and platform environment. <i>FY 2016 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	0.153	0.332	0.580	-	0.580
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 2016 Navy												Date: February 2015		
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	3.466	0.153	Jan 2014	0.332	Jan 2015	0.580	Jan 2016	-		0.580	Continuing	Continuing	Continuing
Subtotal			3.466	0.153		0.332		0.580		-		0.580	-	-	-

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	3.466	0.153	0.332	0.580	-	0.580	-	-	-

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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2016OSD - 0304270N - 2260

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy		Date: February 2015
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: Installatioon and Testing	1	2014	4	2016