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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Office of the Secretary Of Defense **Date:** February 2015

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603714D8Z I <i>Advanced Sensors Applications Program</i>
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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	53.705	19.190	19.490	15.900	-	15.900	16.470	17.369	18.451	18.700	Continuing	Continuing
714: <i>Advanced Sensors Applications Program</i>	53.705	19.190	19.490	15.900	-	15.900	16.470	17.369	18.451	18.700	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program focuses on continued development of domestic technologies to support the assessment of foreign technologies that have demonstrated potential. In coordination with an international partner, unique and innovative approaches are used to expand the performance envelopes. This program supports military requirements identified in Joint Vision 2020, the Defense Science and Technology Strategy, the Anti-Submarine Warfare (ASW) Initial Capabilities Document and the Fleet ASW Integrated Prioritized Capability List.

B. Program Change Summary (\$ in Millions)	<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	19.190	15.518	15.941	-	15.941
Current President's Budget	19.190	19.490	15.900	-	15.900
Total Adjustments	-	3.972	-0.041	-	-0.041
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	3.972			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Departmental Adjustment	-	-	-0.041	-	-0.041

C. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: Advanced Sensors Applications Program	19.190	19.490	15.900
FY 2014 Accomplishments: Provided Mission Support (Details provided in Defense-Wide classified book).			
FY 2015 Plans: Will provide Mission Support (Details provided in Defense-Wide classified book).			
FY 2016 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Continue to provide Mission Support (Details provided in Defense-Wide classified book).			
Accomplishments/Planned Programs Subtotals	19.190	19.490	15.900

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

Details provided in Defense-Wide classified book.

F. Performance Metrics

Numbers of operational field demonstrations; actual/in-kind resource sharing differential among participating entities; studies produced; successful anomaly detections; false-positive results; and technology transfers.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Office of the Secretary Of Defense												Date: February 2015				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
0400 / 4				PE 0603714D8Z / Advanced Sensors Applications Program				714 / Advanced Sensors Applications Program								
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	
Technology Development - Civilian Pay	Sub Allot	Navy : N/A	10.716	5.419		5.400		5.528		-		5.528	Continuing	Continuing	Continuing	
Subtotal			10.716	5.419		5.400		5.528		-		5.528	-	-	-	
Support (\$ 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	
Government Facilities, Platforms & Agencies	Sub Allot	Various : Various	20.192	1.153		2.122		2.200		-		2.200	Continuing	Continuing	Continuing	
Subtotal			20.192	1.153		2.122		2.200		-		2.200	-	-	-	
Test and Evaluation (\$ 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	
FFRDC Field Tests	FFRDC	Various : Various	0.596	0.494		0.500		0.500		-		0.500	Continuing	Continuing	Continuing	
R&D Prototyping - Contracted	Sub Allot	Various : Various	22.201	12.121		11.465		7.669		-		7.669	Continuing	Continuing	Continuing	
Subtotal			22.797	12.615		11.965		8.169		-		8.169	-	-	-	
Management Services (\$ 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	
Materials & Fees	FFRDC	CECOM : Aberdeen Proving Ground, MD	0.000	0.003		0.003		0.003		-		0.003	Continuing	Continuing	Continuing	
Subtotal			0.000	0.003		0.003		0.003		-		0.003	-	-	-	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Office of the Secretary Of Defense										Date: February 2015			
Appropriation/Budget Activity 0400 / 4				R-1 Program Element (Number/Name) PE 0603714D8Z / <i>Advanced Sensors Applications Program</i>				Project (Number/Name) 714 / <i>Advanced Sensors Applications Program</i>					
	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	53.705	19.190		19.490		15.900		-		15.900	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of Defense		Date: February 2015
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603714D8Z / <i>Advanced Sensors Applications Program</i>	Project (Number/Name) 714 / <i>Advanced Sensors Applications Program</i>

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
<i>Airborne Sensors</i>																												
Continue Test and Evaluation																												
Decision Milestone Report																												
<i>Phenomenology</i>																												
Continue Modeling and Testing																												
Continue Technical Reviews (Bi-Quarterly)																												
Continue Science Reviews (Annually)																												
<i>Oceanographic Measurements</i>																												
Continue Test and Evaluation																												
Decision Milestone Report																												
<i>Extended Altitude Effects</i>																												
Continue Data Processing (Archive Data)																												
Continue Data Collection and Analysis																												
Fabricate/ Install																												
Test and Evaluation																												
Decision Milestone Report																												
<i>Joint Oversight Committee Review</i>																												
Continue Joint Oversight Committee Review (3rd Quarter each year)																												
<i>ASAP Web-Based Information</i>																												
Continue ASAP Web-Based Information (4th Quarter each year)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Office of the Secretary Of Defense **Date:** February 2015

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603714D8Z / <i>Advanced Sensors Applications Program</i>	Project (Number/Name) 714 / <i>Advanced Sensors Applications Program</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Airborne Sensors</i>				
Continue Test and Evaluation	1	2014	4	2018
Decision Milestone Report	1	2016	3	2019
<i>Phenomenology</i>				
Continue Modeling and Testing	1	2014	4	2020
Continue Technical Reviews (Bi-Quarterly)	1	2014	4	2020
Continue Science Reviews (Annually)	1	2014	4	2020
<i>Oceanographic Measurements</i>				
Continue Test and Evaluation	1	2014	3	2019
Decision Milestone Report	1	2016	1	2019
<i>Extended Altitude Effects</i>				
Continue Data Processing (Archive Data)	1	2014	2	2016
Continue Data Collection and Analysis	1	2014	4	2018
Fabricate/ Install	1	2015	4	2018
Test and Evaluation	1	2016	4	2020
Decision Milestone Report	1	2019	4	2020
<i>Joint Oversight Committee Review</i>				
Continue Joint Oversight Committee Review (3rd Quarter each year)	3	2014	3	2020
<i>ASAP Web-Based Information</i>				
Continue ASAP Web-Based Information (4th Quarter each year)	4	2014	4	2020