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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

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 0603254N / <i>ASW Systems Development</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	124.896	7.603	5.551	7.041	-	7.041	7.746	7.279	7.397	7.554	Continuing	Continuing
1292: <i>Adv ASW Sensors & Proc</i>	112.834	5.451	3.674	7.041	-	7.041	7.746	7.279	7.397	7.554	Continuing	Continuing
3222: <i>Advanced High Altitude ASW</i>	12.062	2.152	1.877	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	16.091

A. Mission Description and Budget Item Justification

Decrease in ASW SYSTEMS DEVELOPMENT by \$0.294M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

Includes RDT&E funds for advanced development and developmental testing of airborne anti-submarine warfare (ASW) systems, including aircraft, equipment, and devices for use against all types of submarine targets.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES because it includes all efforts necessary to evaluate integrated technologies, representative models or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	7.782	5.555	8.181	-	8.181
Current President's Budget	7.603	5.551	7.041	-	7.041
Total Adjustments	-0.179	-0.004	-1.140	-	-1.140
• Congressional General Reductions	-	-0.004			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.180	0.000			
• Rate/Misc Adjustments	0.001	0.000	-1.140	-	-1.140

Change Summary Explanation

Technical: Not applicable.

Schedule:

1292. Received administrative adjustment starting in FY17. Project Units H3222 and H1292 were consolidated into H1292. Added Next Generation Acoustic Passive System (NGAPS) to schedule 1Q/20 through 4Q/21.

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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 0603254N / *ASW Systems Development*

3222. Received administrative adjustment starting in FY17. Project Units H3222 and H1292 were merged into H1292.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development				Project (Number/Name) 1292 / Adv ASW Sensors & Proc			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
1292: Adv ASW Sensors & Proc	112.834	5.451	3.674	7.041	-	7.041	7.746	7.279	7.397	7.554	Continuing	Continuing
Quantity of RDT&E Articles		100	100	100	-	100	-	-	-	-		

A. Mission Description and Budget Item Justification

This program provides Air Anti-Submarine Warfare (ASW) effectiveness through development and maturation of advanced hardware and software associated with airborne acoustic and non-acoustic systems. This includes sensors and components, processing, post-processing, data recording and display capabilities to address regional threat scenarios against surfaced or submerged conventionally and nuclear powered submarines. Key objectives are platform accommodations of advanced active and passive sensors and components, improved detection, classification, localization, tracking, and increased capacity and flexibility to handle multi-sensor data loads. Furthermore, technologies that can be affordably implemented as payload across fixed wing, rotary and unmanned platforms engaged in ASW, will be pursued. Programs being funded during the FYDP will evaluate technologies such as: Over the Horizon (OTH) communications, sonobuoy communication link to/from aircraft, Distributed Netted Sensors, transient signals, and source and receiver improvement technologies that will enhance passive and Multi-static Active Sensor Systems capabilities. Other programs being funded during the FYDP will provide for the development and maturation of persistent tactical search technologies that will allow transition to the localization and attack phase in all operationally relevant environments. In addition, the program will provide for the development and subsequent experimentation, including data collection and engineering measurement, of Multi-static Active Coherent sources and receivers, laser technologies, electro-optical and Multi-Spectral camera technologies, Radar, and Magnetic Anomaly Detection sensors. Those technologies that are deemed mature and provide increased operational capability will be approved for a production Rapid Capability Insertion (RCI) build. The test articles, which consist of passive/active sensors/components and associated processors, will support at-sea trials and experiments.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: System performance assessments	5.451	3.674	7.041	0.000	7.041
Articles:	100	100	100	-	100
FY 2015 Accomplishments:					
Conducted system performance assessments for Multi-Static Active Coherent ASW algorithms and other Acoustic and Non-Acoustic system enhancements using test articles and prototype software while supporting at-sea trials and experiments such as USWEET. Conducted data analysis for the engineering measurement program on Science and Technology, Research and Development and operational fleet collected data.					
FY 2016 Plans:					
System performance assessments for Multi-Static Active Coherent ASW algorithms and other prospective Acoustic and Non-Acoustic systems and enhancements. The test articles, which consist of passive/active sensors/components and associated processors, will support at-sea trial and experiments. Develop prototype software for use in at-sea experiment/exercise participation and data collection. Conduct data analysis for the					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy	Date: February 2016
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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 1292 / Adv ASW Sensors & Proc
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
engineering measurement program on Science and Technology, Research and Development and operational fleet collected data.					
<i>FY 2017 Base Plans:</i> Received technical adjustment starting in FY17. Project Units H3222 and H1292 were consolidated into H1292. System performance assessments for Multi-Static Active Coherent ASW algorithms and other Acoustic and Non-Acoustic system enhancements. The test articles, which consist of passive/active sensors/components and associated processors, will support at-sea trial and experiments. Develop prototype software for use in at-sea experiment/exercise participation and data collection. Conduct data analysis for the engineering measurement program on Science and Technology, Research and Development and operational fleet collected data.					
<i>FY 2017 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	5.451	3.674	7.041	0.000	7.041

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDT&E/0480: ASW Sensors & Proc	17.354	22.378	29.967	-	29.967	33.755	25.327	44.213	45.126	Continuing	Continuing

Remarks

D. Acquisition Strategy

Develop and mature promising acoustic and non-acoustic ASW technologies that have high potential for meeting documented capability gaps and Fleet requirements. As funding permits, transition those technologies into acquisition programs of record for eventual Fleet release on ASW platforms.

E. Performance Metrics

Potential ASW technologies are quantitatively assessed for effect on ASW kill chain in relation to cost, schedule and performance metrics.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 4				PE 0603254N / ASW Systems Development					1292 / Adv ASW Sensors & Proc						
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Primary Hdw Development	Various	Various : Various	1.937	0.200	Dec 2014	0.200	Dec 2015	0.100	Dec 2016	-		0.100	Continuing	Continuing	Continuing
Subtotal			1.937	0.200		0.200		0.100		-		0.100	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Software Development	WR	NAWCAD : PATUXENT RIVER, MD	3.625	0.400	Dec 2014	0.200	Dec 2015	1.000	Dec 2016	-		1.000	0.000	5.225	-
Studies & Analysis	WR	NAWCAD : PATUXENT RIVER, MD	5.681	0.400	Dec 2014	0.600	Dec 2015	1.883	Dec 2016	-		1.883	Continuing	Continuing	Continuing
Subtotal			9.306	0.800		0.800		2.883		-		2.883	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Dev Test & Eval	Various	Various : Various	19.246	1.863	Dec 2014	0.838	Dec 2015	1.800	Dec 2016	-		1.800	Continuing	Continuing	Continuing
Subtotal			19.246	1.863		0.838		1.800		-		1.800	-	-	-
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Contractor Eng Spt	Various	Various : Various	18.591	1.381	Dec 2014	0.500	Dec 2015	1.000	Dec 2016	-		1.000	Continuing	Continuing	Continuing
ENG & TECH SVCS (NON-FFRDC)	Various	Various : Various	2.802	0.045	Dec 2014	0.047	Dec 2015	0.100	Dec 2016	-		0.100	Continuing	Continuing	Continuing
MGT & PROF SVCS (FFRDC)	Various	Various : Various	1.087	0.153	Dec 2014	0.133	Dec 2015	0.100	Dec 2016	-		0.100	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 1292 / Adv ASW Sensors & Proc
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Eng Spt	WR	NAWCAD : PATUXENT RIVER, MD	59.733	1.001	Dec 2014	1.148	Dec 2015	1.050	Dec 2016	-		1.050	Continuing	Continuing	Continuing
Travel	Various	VARIOUS : VARIOUS	0.132	0.008	Dec 2014	0.008	Dec 2015	0.008	Dec 2016	-		0.008	Continuing	Continuing	Continuing
Subtotal			82.345	2.588		1.836		2.258		-		2.258	-	-	-
Project Cost Totals			112.834	5.451		3.674		7.041		-		7.041	-	-	-

Remarks
 FY16 to FY17 growth results from a technical adjustment starting in FY17. Project units H3222 and H1292 were consolidated into H1292 as funding for both projects has historically been executed on the same contracts. Additionally, increased focus on common payload (Hardware and Software) approaches and technologies that benefit multiple platforms has resulted in a more holistic approach to the execution of Program Element (PE) 0603254N.

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 1292 / Adv ASW Sensors & Proc
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Proj: 1292 - Adv ASW Sensors & Processors	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021							
	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				
Performance Assessment	Continuous Active Sonar								Data Analysis/Engineering Measurement																							
									In-Buoy Processing								OTH Comms								NGAPS							
Transition Decision									Continuous Active Sonar ◆				In-Buoy Processing ◆				OTH Comms ◆															
Software	Software Development																															
Experiment/Exercise Participation	Experiment/Exercise Participation																															
Trade Studies									Study & Analyze concept options and develop early prototypes																							
Deliveries																																
Test Articles	100				100				100				100				100				100				100				100			

2017PB - 0603254N - 1292 Received technical adjustment starting in FY17. Project Units H3222 and H1292 were consolidated into H1292.

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 1292 / Adv ASW Sensors & Proc
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj: 1292 - Adv ASW Sensors & Processors				
Performance Assessment: Continuous Active Sonar	1	2015	4	2016
Performance Assessment: Data Analysis/Engineering Measurement	1	2015	4	2021
Performance Assessment: In-Buoy Processing	1	2017	4	2018
Performance Assessment: OTH Comms	1	2019	4	2020
Performance Assessment: Next Generation Acoustic Passive System	1	2020	4	2021
Transition Decision: Continuous Active Sonar	4	2016	4	2016
Transition Decision: In-Buoy Processing	4	2018	4	2018
Transition Decision: OTH Comms	4	2020	4	2020
Software: Software Development	1	2015	4	2021
Experiment/Exercise Participation: Experiment/Exercise Participation	1	2015	4	2021
Trade Studies: Trade Studies	1	2017	4	2021
Deliveries: Test Articles: Test Article Deliveries (4)	1	2015	1	2015
Deliveries: Test Articles: Test Article Deliveries (5)	1	2016	1	2016
Deliveries: Test Articles: Test Article Deliveries (6)	1	2017	1	2017
Deliveries: Test Articles: Test Article Deliveries (7)	1	2018	1	2018
Deliveries: Test Articles: Test Article Deliveries (8)	1	2019	1	2019
Deliveries: Test Articles: Test Article Deliveries (9)	1	2020	1	2020
Deliveries: Test Articles: Test Article Deliveries (10)	1	2021	1	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 3222 / Advanced High Altitude ASW
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3222: <i>Advanced High Altitude ASW</i>	12.062	2.152	1.877	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	16.091
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Received administrative adjustment starting in FY17. Project Units H3222 and H1292 were consolidated into H1292.

A. Mission Description and Budget Item Justification

Advanced High Altitude Anti-Submarine Warfare (Adv HAASW) program performs research, analyses, and early prototype demonstration activities for new technologies to support future Air Anti-Submarine Warfare (ASW) programs for P-8A and other platforms. Emphasis is placed on evaluation of technologies and prototype systems in realistic operating environments with a focus on new sensors and system components.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Research, analyses, and early prototype demonstration activities	2.152	1.877	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2015 Accomplishments: Scheduled to perform studies, analyses and early prototyping of acoustic and non-acoustic technologies suitable for High Altitude ASW operations for the P-8A aircraft.					
FY 2016 Plans: Scheduled to perform studies, analyses and early prototyping of acoustic, non-acoustic and communications technologies suitable for high altitude ASW operations.					
FY 2017 Base Plans: N/A					
FY 2017 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	2.152	1.877	0.000	0.000	0.000

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

N/A

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / <i>ASW Systems Development</i>	Project (Number/Name) 3222 / <i>Advanced High Altitude ASW</i>
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D. Acquisition Strategy

Develop modifications to incorporate capability into current sonobuoy sensors and integration into Air ASW platforms, P-8A as the lead aircraft.

E. Performance Metrics

Perform Studies and Analysis to better define Advanced HAASW program needs. Early prototypes will be developed to reduce risk for ASW operations at high altitudes by the P-8A aircraft.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
1319 / 4				PE 0603254N / ASW Systems Development				3222 / Advanced High Altitude ASW								
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Prior years Hdw Dev cost no longer funded in the FYDP	Various	Various : Various	1.370	0.000		0.000		0.000		-		0.000	0.000	1.370	-	
Subtotal			1.370	0.000		0.000		0.000		-		0.000	0.000	1.370	-	
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Studies & Analysis	WR	NAWCAD : PATUXENT RIVER, MD	1.673	0.359	Nov 2014	0.752	Nov 2015	0.000		-		0.000	0.000	2.784	-	
Studies & Analysis	WR	Various : Various	0.000	1.001	Nov 2014	0.579	Dec 2015	0.000		-		0.000	0.000	1.580	-	
Prior Year Support no longer funded in the FYDP	Various	VARIOUS : VARIOUS	5.137	0.000		0.000		0.000		-		0.000	0.000	5.137	-	
Subtotal			6.810	1.360		1.331		0.000		-		0.000	0.000	9.501	-	
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Prior year T&E no longer funded in the FYDP	Various	Various : Various	0.230	0.000		0.000		0.000		-		0.000	0.000	0.230	-	
Subtotal			0.230	0.000		0.000		0.000		-		0.000	0.000	0.230	-	
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Contractor Eng Spt	Various	Various : Various	0.685	0.136	Nov 2014	0.119	Dec 2015	0.000		-		0.000	0.000	0.940	Continuing	
ENG & TECH SVCS (NON-FFRDC)	Various	Various : Various	0.905	0.209	Nov 2014	0.188	Dec 2015	0.000		-		0.000	0.000	1.302	Continuing	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 3222 / Advanced High Altitude ASW
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Eng Spt	WR	NAWCAD : PATUXENT RIVER, MD	2.030	0.441	Nov 2014	0.231	Dec 2015	0.000		-		0.000	0.000	2.702	-
Travel	Various	Various : Various	0.032	0.006	Nov 2014	0.008	Nov 2015	0.000		-		0.000	0.000	0.046	-
Subtotal			3.652	0.792		0.546		0.000		-		0.000	0.000	4.990	-
Project Cost Totals			12.062	2.152		1.877		0.000		-		0.000	0.000	16.091	-

Remarks
 FY16 to FY17 reduction results from a administrative adjustment starting in FY17. Project units H3222 and H1292 were consolidated into H1292 as funding for both projects has historically been executed on the same contracts. Additionally, increased focus on common payload (Hardware and Software) approaches and technologies that benefit multiple platforms has resulted in a more holistic approach to the execution of Program Element (PE) 0603254N.

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 3222 / Advanced High Altitude ASW
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Proj: 3222 Advanced High Altitude ASW	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021							
	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				
Contract Awards		Study Contract ●				Study Contract ●																										
		Early Prototype Contract ●				Early Prototype Contract ●																										
Trade Studies	Study & Analyze concept options and develop early prototypes																															

2017PB - 0603254N - 3222 Received technical adjustment starting in FY17. Project Units H3222 and H1292 were consolidated into H1292.

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603254N / ASW Systems Development	Project (Number/Name) 3222 / Advanced High Altitude ASW
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj: 3222 Advanced High Altitude ASW</i>				
Contract Awards: Study Contract (3)	2	2015	2	2015
Contract Awards: Study Contract (4)	2	2016	2	2016
Contract Awards: Early Prototype Contract (3)	2	2015	2	2015
Contract Awards: Early Prototype Contract (4)	2	2016	2	2016
Trade Studies: Trade Studies	1	2015	4	2016