Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0603254N: ASW Systems Development

DATE: April 2013

BA 4: Advanced Component Development & Prototypes (ACD&P)

			(
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	103.171	7.610	8.090	7.964	-	7.964	8.141	8.195	8.392	8.490	Continuing	Continuing
1292: Adv ASW Sensors & Proc	97.984	5.239	5.648	5.601	-	5.601	5.778	5.818	5.962	6.039	Continuing	Continuing
3222: Advanced High Altitude ASW	5.187	2.371	2.442	2.363	-	2.363	2.363	2.377	2.430	2.451	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

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; and advanced, high-performance, underwater, mobile target for use in fleet ASW training exercises and for the operational evaluation of the MK-30 torpedo and the MK-48 torpedo weapons system improvement program.

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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	7.896	8.090	8.047	-	8.047
Current President's Budget	7.610	8.090	7.964	-	7.964
Total Adjustments	-0.286	0.000	-0.083	-	-0.083
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.057	0.000			
SBIR/STTR Transfer	-0.229	0.000			
Program Adjustments	0.000	0.000	-0.010	-	-0.010
Rate/Misc Adjustments	0.000	0.000	-0.073	-	-0.073

Change Summary Explanation

Technical: Not applicable.

PE 0603254N: ASW Systems Development

Navy

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy	R-1 ITEM NOMENCLATURE PE 0603254N: ASW Systems Development	·
BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0003234N. ASW Systems Development	
Schedule: Not applicable.		

PE 0603254N: ASW Systems Development Navy

UNCLASSIFIED

DATE: April 2013 Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy **R-1 ITEM NOMENCLATURE** APPROPRIATION/BUDGET ACTIVITY **PROJECT** PE 0603254N: ASW Systems Development | 1292: Adv ASW Sensors & Proc

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Dev	eiopment &	Prototypes	(ACD&P)									
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
1292: Adv ASW Sensors & Proc	97.984	5.239	5.648	5.601	-	5.601	5.778	5.818	5.962	6.039	Continuing	Continuing
Quantity of RDT&F Articles	0	100	100	100		100	100	100	100	100		

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This program provides Air Anti-Submarine Warfare (ASW) platform effectiveness through development and maturization 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. Programs being funded during the FYDP will investigate technologies such as: Over the Horizon Communications, 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 maturization 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 advanced processing 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 2012	FY 2013	FY 2014
Title: System performance assessments	5.239	5.648	5.601
Articles:	100	100	100
FY 2012 Accomplishments: System performance assessments for Multi-Static Active Coherent Anti-Submarine Warfare (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.			
FY 2013 Plans: 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 atsea trial and experiments.			
FY 2014 Plans:			

PE 0603254N: ASW Systems Development

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Navy

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0603254N: ASW Systems Development	1292: Adv ASW Sensors & Proc
BA 4: Advanced Component Development & Prototypes (ACD&P)		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
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 atsea trial and experiments. Develop prototype software development for use in at-sea experiment/exercise participation and data collection. Gather data analysis on engineering measurement program on Science and Technology, Research and Development and operational fleet collected data.			
Accomplishments/Planned Programs Subtotals	5.239	5.648	5.601

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

N/A

Remarks

D. Acquisition Strategy

The included technology development are primarily in-house with contractor participation through existing vehicles.

E. Performance Metrics

System performance assessments for Multi-Static Active Coherent Air Anti-Submarine Warfare (ASW) algorithms and other Acoustic and Non-Acoustic system enhancements by Air ASW Technology Assessment Board.

PE 0603254N: ASW Systems Development

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy **R-1 ITEM NOMENCLATURE PROJECT** APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy PE 0603254N: ASW Systems Development 1292: Adv ASW Sensors & Proc BA 4: Advanced Component Development & Prototypes (ACD&P) FY 2014 FY 2014 FY 2014 **Product Development (\$ in Millions)** FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type Years Cost Date Date Cost Date Cost Date Complete Cost Activity & Location Cost Cost Contract Primary Hdw Development **VARIOUS: VARIOUS** 0.930 0.400 Dec 2011 0.403 Dec 2012 0.204 Dec 2013 0.204 Continuing Continuing Continuing Various Subtotal 0.930 0.400 0.403 0.204 0.000 0.204 FY 2014 FY 2014 FY 2014 Support (\$ in Millions) oco FY 2012 FY 2013 Base Total Contract Target All Prior Method Performing Award Award Award Award Cost To Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract NAWCAD:PATUXENT Software Development WR 3.425 0.000 0.000 0.400 Dec 2013 0.400 0.000 3.825 RIVER. MD NAWCAD:PATUXENT WR 0.300 Dec 2012 0.400 Dec 2013 0.400 Continuing Continuing Continuing Studies & Analysis 5.181 0.000 RIVER. MD Subtotal 8 606 0.000 0.300 0.800 0.000 0.800 FY 2014 FY 2014 FY 2014 Test and Evaluation (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method All Prior **Cost To** Value of Performing Award Award Award Award Total **Cost Category Item** Cost Date Cost Cost Complete Contract & Type **Activity & Location** Years Date Cost **Date Date** Cost Cost VARIOUS: VARIOUS 0.350 Continuing Continuing Continuing Dev Test & Eval Various 15.681 0.500 Dec 2011 0.700 Dec 2012 0.350 Dec 2013 Subtotal 15.681 0.500 0.700 0.350 0.000 0.350 FY 2014 FY 2014 FY 2014 Management Services (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Activity & Location** Date Contract **Cost Category Item** & Type Years Cost Cost Date Cost Date Cost Date Cost Complete Cost VARIOUS: VARIOUS 12.372 Contractor Eng Spt Various 3.327 Dec 2011 1.558 Dec 2012 1.334 Dec 2013 1.334 Continuing Continuing Continuing **ENG & TECH SVCS VARIOUS:VARIOUS** 2.582 0.100 Dec 2011 0.070 Dec 2012 0.050 Dec 2013 0.050 Continuing Continuing Continuing Various (NON-FFRDC) MGT & PROF SVCS **VARIOUS: VARIOUS** 0.421 0.195 Dec 2011 0.300 Dec 2012 0.171 Dec 2013 0.171 Continuing Continuing Continuing Various (FFRDC)

PE 0603254N: ASW Systems Development

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603254N: ASW Systems Development | 1292: Adv ASW Sensors & Proc

Management Services (\$ in Millions)				FY 2	2012	FY	2013		2014 ase	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Government Eng Spt	WR	NAWCAD:PATUXENT RIVER, MD	57.338	0.651	Dec 2011	2.310	Dec 2012	2.687	Dec 2013	-		2.687	Continuing	Continuing	Continuing
Travel	Various	VARIOUS:VARIOUS	0.054	0.066	Dec 2011	0.007	Dec 2012	0.005	Dec 2013	-		0.005	Continuing	Continuing	Continuing
		Subtotal	72.767	4.339		4.245		4.247		0.000		4.247			
															Target

	All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	FY 2	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	97.984	5.239		5.648		5.601	0.000	5.601			

Remarks

PE 0603254N: ASW Systems Development Navy

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RPROPRIATION/BUDGET ACTIVITY 319: Research, Development, Test & Evaluation, Navy A4: Advanced Component Development & Prototypes (ACD&P) Proj: 1292 - Adv ASW Sensors & FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 Processors Proj: 1292 - Adv ASW Sensors & FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 Processors Performance Assessment Concurrent Proc/Battery Tech Concurrent Proc/Battery Tech Distributed Netted Sensors Continuous Active Sonar Engineering Measurement In-Buoy Processing In-Buoy Processing Software Software Software Development Experiment/Exercise Participation Experiment/Exercise Participation Experiment/Exercise Participation Test Articles Test Articl	xhibit R-4, RDT&E Schedule Prof		PB 2	2014 Navy																		I	DA	TE:	Арі	ril 20	013
Performance Assessment 10 2030	319: Research, Development, Test	& E			\CD	&P)																					
Concurrent Proc/Battery Tech Engineering Measurement In-Buoy Processing Continuous Active Sonar In-Buoy Processing In-Buoy Processing In-Buoy Processing Software Software Software Experiment/Exercise Participation Experiment/Exercise Participation Test Articles Test Articles Test Articles			F	Y 2012	FY 2013				FY	2014	FY 2015		FY 2016			2016	FY 2017				FY 2018			018			
Concurrent Proc/Battery Tech Engineering Measurement In-Buoy Processing Concurrent Proc/Battery Tech Concurrent Proc/Battery Tech Distributed Netted Sensors Continuous Active Sonar In-Buoy Processing In-Buoy Processing In-Buoy Processing In-Buoy Processing Software Software Development Experiment/Exercise Participation Experiment/Exercise Participation		1Q	203	Q 4Q	1Q	2Q	3 Q 4	Q 1	Q 2Q3Q 4Q		10 203040		1Q	2Q	3Q	4Q	1Q		10 20 30 40		4Q	1Q	2Q	3Q	4Q		
ransition Decision Concurrent Proc/Battery Tech Distributed Netted Sensors Software Development Experiment/Exercise Participation Test Articles 100 100 100 100 100 100 100 100	erformance Assessment	F			_	Dis	tribu	uted	Net	tted	Sensors		Con	itinu	ous	Ac	tive	Sonar									
Concurrent Proc/Battery Tech Continuous Active Sonar Software Software Development Experiment/Exercise Participation Test Articles 100 100 100 100 100 100 100		L	Engineering Measurement																								
Concurrent Proc/Battery Tech Software Software Software Development Experiment/Exercise Participation Experiment/Exercise Participation Test Articles 100 100 100 100 100 100 100 100 100 10		In-Buoy Processing												ng													
Software Development Experiment/Exercise Participation Experiment/Exercise Participation Deliveries Test Articles 100	Fransition Decision			Proc/Battery Tech							Netted Sensors							Active Sonar	ıs							F	
Deliveries Test Articles 100 10	Software										Soft	ware	Dev	elop	men	nt											
Test Articles 100	Experiment/Exercise Participation		Experiment/Exercise Participation																								
2014PB - 0603254N - 1292)		10	00																		
	2014PB - 0603254N - 1292																										

PE 0603254N: ASW Systems Development Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0603254N: ASW Systems Development | 1292: Adv ASW Sensors & Proc

BA 4: Advanced Component Development & Prototypes (ACD&P)

Schedule Details

	Sta	End				
Events by Sub Project	Quarter	Year	Quarter	Year		
Proj: 1292 - Adv ASW Sensors & Processors						
Performance Assessment: Concurrent Processing/Battery Technology	1	2012	4	2012		
Performance Assessment: Distributed Netted Sensors	1	2013	4	2014		
Performance Assessment: Continuous Active Sonar	1	2015	4	2016		
Performance Assessment: Engineering Measurement	1	2012	4	2018		
Performance Assessment: In-Buoy Processing	1	2017	4	2018		
Transition Decision: Concurrent Processing/Battery Technology	4	2012	4	2012		
Transition Decision: Distributed Netted Sensors	4	2014	4	2014		
Transition Decision: Continuous Active Sonar	4	2016	4	2016		
Transition Decision: In-Buoy Processing	4	2018	4	2018		
Software: Software Development	1	2012	4	2018		
Experiment/Exercise Participation: Experiment/Exercise Participation	1	2012	4	2018		
Deliveries: Test Articles: Test Article Deliveries (1)	1	2012	1	2012		
Deliveries: Test Articles: Test Article Deliveries (2)	1	2013	1	2013		
Deliveries: Test Articles: Test Article Deliveries (3)	1	2014	1	2014		
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		

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

R-1 ITEM NOMENCLATURE
PE 0603254N: ASW Systems Development
3222: Advanced High Altitude ASW

FY 2014 FY 2014 FY 2014 **All Prior Cost To** Total COST (\$ in Millions) OCO ## FY 2012 | FY 2013# FY 2018 | Complete Base Total FY 2015 FY 2016 FY 2017 Years Cost 2.451 Continuing Continuing 3222: Advanced High Altitude 5.187 2.371 2.442 2.363 2.363 2.363 2.377 2.430 **ASW** Quantity of RDT&E Articles 0 0 0 0 0 0 0 0

BA 4: Advanced Component Development & Prototypes (ACD&P)

A. Mission Description and Budget Item Justification

Advanced High Altitude Anti-Submarine Warfare (HAASW) program performs studies and analyses to better perform the Air Anti-Submarine Warfare (ASW) mission on the P-8A aircraft. The P-8A aircraft, a commercial derivative Boeing 737 airframe, operates most efficiently at high altitudes. These studies are to explore technologies, which may lead to additional high altitude ASW capabilities.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Provide precision delivery of sonobuoys	2.371	2.442	2.363
Articles:	0	0	0
FY 2012 Accomplishments: FY12 is 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 2013 Plans: FY13 is 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 2014 Plans: FY13 is 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.			
Accomplishments/Planned Programs Subtotals	2.371	2.442	2.363

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

N/A

Navy

Remarks

PE 0603254N: ASW Systems Development

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^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603254N: ASW Systems Development	PROJECT 3222: Advanced High Altitude ASW
 D. Acquisition Strategy Develop modifications to incorporate capability into current sonobuoy sensors 	s 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 ne altitudes by the P-8A aircraft.	eeds. Early prototypes will be developed to red	duce risk for ASW operations at high

PE 0603254N: ASW Systems Development Navy

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603254N: ASW Systems Development | 3222: Advanced High Altitude ASW

PROJECT

Product Developme	nt (\$ in Mi	llions)		FY 2	2012	FY 2	:013	FY 2 Ba	2014 se	FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	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	0.000	1.370	

Support (\$ in Million	ıs)			FY 2	2012	FY 2	2013	FY 2 Ba		FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Studies & Analysis	WR	NAWCAD:PATUXENT RIVER, MD	1.150	0.100	Nov 2011	0.200	Nov 2012	0.293	Nov 2013	-		0.293	Continuing	Continuing	Continuing
Studies & Analysis	Various	AVIATION SYSTEMS ENGINEERING COMPANY INC:LEXINGTON PARK, MD	1.065	1.245	Nov 2011	1.526	Nov 2012	1.500	Nov 2013	-		1.500	Continuing	Continuing	Continuing
	<u> </u>	Subtotal	2.215	1.345		1.726		1.793		0.000		1.793			

Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 se	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Field Tests	WR	NAWCAD:PATUXENT RIVER, MD	0.050	0.100	Nov 2011	0.080	Nov 2012	0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	0.050	0.100		0.080		0.000		0.000		0.000			

PE 0603254N: ASW Systems Development Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

Project Cost Totals

5.187

2.371

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603254N: ASW Systems Development | 3222: Advanced High Altitude ASW

2.363

2.363

Management Servic	es (\$ in M	illions)		FY 2	2012	FY 2	2013		2014 ase	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Contractor Eng Spt	Various	VARIOUS:VARIOUS	0.200	0.385	Nov 2011	0.100	Nov 2012	0.000		-		0.000	Continuing	Continuing	Continuing
ENG & TECH SVCS (NON-FFRDC)	Various	VARIOUS:VARIOUS	0.232	0.150	Nov 2011	0.289	Nov 2012	0.236	Nov 2013	-		0.236	Continuing	Continuing	Continuing
Government Eng Spt	WR	NAWCAD:PATUXENT RIVER, MD	1.107	0.382	Nov 2011	0.241	Nov 2012	0.330	Nov 2013	-		0.330	Continuing	Continuing	Continuing
Travel	Various	VARIOUS:VARIOUS	0.013	0.009	Nov 2011	0.006	Nov 2012	0.004	Nov 2013	-		0.004	Continuing	Continuing	Continuing
		Subtotal	1.552	0.926		0.636		0.570		0.000		0.570			
			All Prior	FV 2	2012	FV :	2013	_	2014	FY 2		FY 2014	Cost To	Total	Target Value of

2.442

Remarks

PE 0603254N: ASW Systems Development Navy

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0.000

4: Advanced Component Dev	1	Y 20		FY 2013				FY 201		FY 2015			FY 2016			FY 2017			FY 2018						
titude ASW		203		1.0			4Q1			040	1.0			1Q10		30	40	رم.			4Q		2Q	3Q	
ontract Awards					Study Contract	30		Study Contrac				Study Contract			Study				Study Contract	,		3	Study Contract	34	
					Early Prototype Contract			Early Prototyp Contrac				Early Prototype Contract			Early Prototyp Contrac				Early Prototype Contract				Early Prototype Contract		
ade Studies								Study & A	Anal	lyze	con	cept option	ns a	nd d	evelop ea	rly pr	otot	ype	es	7					
14PB - 0603254N - 3222																									

PE 0603254N: ASW Systems Development Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0603254N: ASW Systems Development | 3222: Advanced High Altitude ASW

BA 4: Advanced Component Development & Prototypes (ACD&P)

Schedule Details

	Sta	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj: 3222 Advanced High Altitude ASW				
Contract Awards: Study Contract (1)	2	2013	2	2013
Contract Awards: Study Contract (2)	2	2014	2	2014
Contract Awards: Study Contract (3)	2	2015	2	2015
Contract Awards: Study Contract (4)	2	2016	2	2016
Contract Awards: Study Contract (5)	2	2017	2	2017
Contract Awards: Study Contract (6)	2	2018	2	2018
Contract Awards: Early Prototype Contract (1)	2	2013	2	2013
Contract Awards: Early Prototype Contract (2)	2	2014	2	2014
Contract Awards: Early Prototype Contract (3)	2	2015	2	2015
Contract Awards: Early Prototype Contract (4)	2	2016	2	2016
Contract Awards: Early Prototype Contract (5)	2	2017	2	2017
Contract Awards: Early Prototype Contract (6)	2	2018	2	2018
Trade Studies: Trade Studies	1	2012	4	2018