

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
---	-------------------------

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>					PE 0604261N: <i>Acoustic Search Sensors</i>							
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	321.669	49.353	34.299	30.208	-	30.208	27.044	21.406	18.418	18.706	Continuing	Continuing
0480: <i>ASW Sensors & Proc</i>	275.966	25.087	19.453	19.624	-	19.624	17.531	13.796	14.097	14.313	Continuing	Continuing
3224: <i>High Altitude ASW</i>	45.703	24.266	14.846	10.584	-	10.584	9.513	7.610	4.321	4.393	Continuing	Continuing

[#] 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

A. Mission Description and Budget Item Justification

Includes RDT&E funds for engineering development and operational test and evaluation of acoustic search sensors/systems and complementary equipment for Anti Submarine Warfare (ASW) aircraft.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	48.838	34.299	30.416	-	30.416
Current President's Budget	49.353	34.299	30.208	-	30.208
Total Adjustments	0.515	0.000	-0.208	-	-0.208
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.927	0.000			
• SBIR/STTR Transfer	-1.412	0.000			
• Program Adjustments	0.000	0.000	-0.024	-	-0.024
• Rate/Misc Adjustments	0.000	0.000	-0.184	-	-0.184

Change Summary Explanation

Technical: Not applicable.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604261N: <i>Acoustic Search Sensors</i>
Schedule: 3224. A 15 Mar 12 Acquisition Decision Memorandum from PEO(A) Milestone Decision Authority approved the transition from a planned Acquisition Category Program to a series of Engineering Change Proposal modifications to the AN/SSQ-53, AN/SSQ-62 and AN/SSQ-101 sonobuoys.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604261N: Acoustic Search Sensors				PROJECT 0480: ASW Sensors & Proc			
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
0480: ASW Sensors & Proc	275.966	25.087	19.453	19.624	-	19.624	17.531	13.796	14.097	14.313	Continuing	Continuing
Quantity of RDT&E Articles	0	500	50	75		75	200	0	0	0		
# 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												
A. Mission Description and Budget Item Justification												
The Anti-Submarine Warfare (ASW) Sensors and Processing project provides the tools and methods necessary to maintain naval superiority by preventing threat submarines from disrupting the U.S. Navy's ability to control the sea lines of communication and completing their hostile missions. This project encompasses the Engineering & Manufacturing Development phase and the follow on increments of sensor systems to improve the mission effectiveness of airborne ASW platforms in cueing, searching, localizing, tracking, and attacking subsurface targets. Smaller and quieter threat submarines drive the requirement for continued advancement in ASW sensor capabilities for both blue water and littoral environments. The littoral regions of the world create an additional ASW challenge to overcome the increase in background clutter caused by the shallow water depth, high volume of shipping, and commercial radio frequency interference. Project 0480 provides funding to the multi-static active ASW family of systems for the engineering development of solutions that detect, classify, and track threat submarines. Multi-static Active Coherent (MAC) and Advanced Processing Builds (APB) are efforts funded during the period identified. The MAC program, which started in FY08, encompasses the development of an active coherent (electronic) source sonobuoy, modifications to the existing Air Deployable Active Receiver sonobuoy, development, integration, and test of aircraft avionics software and MAC system. It also provides upgrades to the Multi-static mission planning tool, the Tactical Operational Readiness Trainer and the Tactical Ground Replay System. MAC provides a large area search capability in all water environments and will eliminate current impulsive source safety, training, and Rules of Engagement restrictions. Project 0480 also provides funding for the APB program which provides software enhancements for signal processing improvements, clutter reduction, automation, improved displays and controls, as well as improved communication links for reduced operator workload resulting in increased target detection and classification capabilities and interoperability. APB also includes an Air ASW Engineering Measurement Program that collects ASW system data and identifies areas where beneficial improvements can be made and provides common software and hardware solutions across all Air ASW platforms. The 825 sonobuoy test articles in FY12/15 will support software and hardware integration flight tests and Technical Evaluation/Operational Evaluation for the MAC program.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Complete APB System Qualification Test /Fleet Release									0.514	2.888	8.485	
									0	0	0	
FY 2012 Accomplishments:												
Complete APB(2) Tech Eval and get approval for software release in September 2012. Continue software development/ Integration for APB(3).												
FY 2013 Plans:												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy							DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604261N: <i>Acoustic Search Sensors</i>			PROJECT 0480: <i>ASW Sensors & Proc</i>		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Release APB(2) software to Fleet. Continue software development/Integration for APB(3).			
FY 2014 Plans: Conduct APB(3) Software Qualification Test (SQT) and prepare APB(3) for software release.			
Title: Multi-static Active Coherent (MAC) Articles:	24.573 500	16.565 50	11.139 75
FY 2012 Accomplishments: Conduct Milestone C and Low Rate Initial Production decision briefs with Milestone Decision Authority. Conduct Operational Test flights in 3rd quarter FY-2012.			
FY 2013 Plans: Release Multi-static Active Coherent (MAC) software to Fleet in 1st quarter. Conduct decision brief for Full Rate Production on SSQ-125 in 1st quarter. Initiate Engineering Change Proposal (ECP) to the SSQ-125 to increase source level. Integrate next version of software to support commencement of Follow-on Test and Evaluation (FOT&E) in 4th quarter FY-2013.			
FY 2014 Plans: Continue ECP effort to increase source level of SSQ-125. Complete FOT&E in 2nd quarter and release software to fleet in 3rd quarter.			
Accomplishments/Planned Programs Subtotals	25.087	19.453	19.624

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OPN/4048: <i>Sonobuoys - All Types</i>	24.431	17.034	47.759		47.759	47.411	51.596	52.975	45.450	Continuing	Continuing
Remarks											
D. Acquisition Strategy The development and integration of MAC using coherent source technology into the P-3C and P-8A Aircraft. Sole source contracts have been awarded for Sensor Development (ERAPSCO) and for Displays and Control and Integration on P-3C aircraft (Lockheed Martin, Manassas) and P-8A aircraft.											
E. Performance Metrics Continued development/test of a MAC coherent source and related software that will satisfy the large area search requirement in the harsh, shallow water littorals as stated in the Acquisition Program Baseline agreement.											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604261N: Acoustic Search Sensors						PROJECT 0480: ASW Sensors & Proc			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Primary Hdw Development	Various	VARIOUS:VARIOUS	18.505	1.400	Oct 2011	2.288	Dec 2012	1.191	Dec 2013	-		1.191	Continuing	Continuing	Continuing
Primary Hdw Development	SS/CPIF	ERAPSCO:FT. WAYNE IN	3.350	3.350	Oct 2011	3.658	Dec 2012	3.600	Dec 2013	-		3.600	Continuing	Continuing	Continuing
Subtotal			21.855	4.750		5.946		4.791		0.000		4.791			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Software Development	WR	NAWCAD:PATUXENT RIVER, MD	19.204	1.000	Oct 2011	1.000	Nov 2012	1.000	Nov 2013	-		1.000	Continuing	Continuing	Continuing
Software Development	SS/CPIF	LOCKHEED MARTIN:MANASSAS VA	3.000	3.000	Oct 2011	1.000	Nov 2012	1.000	Nov 2013	-		1.000	Continuing	Continuing	Continuing
Software Development	Various	VARIOUS:VARIOUS	7.802	0.529	Oct 2011	0.457	Nov 2012	0.500	Nov 2013	-		0.500	Continuing	Continuing	Continuing
Studies & Analysis	WR	NAWCAD:PATUXENT RIVER, MD	12.340	1.000	Oct 2011	0.562	Nov 2012	0.700	Nov 2013	-		0.700	Continuing	Continuing	Continuing
Technical Data	WR	NAWCAD:PATUXENT RIVER, MD	15.359	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			57.705	5.529		3.019		3.200		0.000		3.200			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Dev Test & Eval	WR	NAWCAD:PATUXENT RIVER, MD	17.700	2.000	Nov 2011	1.000	Nov 2012	1.000	Nov 2013	-		1.000	Continuing	Continuing	Continuing
Subtotal			17.700	2.000		1.000		1.000		0.000		1.000			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604261N: Acoustic Search Sensors						PROJECT 0480: ASW Sensors & Proc			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Contractor Eng Spt (APB)	Various	VARIOUS:VARIOUS	30.845	3.132	Nov 2011	2.132	Nov 2012	2.500	Nov 2013	-		2.500	Continuing	Continuing	Continuing
Contractor Eng Spt (APB)	C/CPFF	NAVMAR APPLIED SCIENCES CORP:WARMINSTER, PA	0.000	1.349	Nov 2011	1.488	Nov 2012	1.500	Nov 2013	-		1.500	Continuing	Continuing	Continuing
Government Eng Spt	WR	NAWCAD:PATUXENT RIVER, MD	89.050	3.661	Oct 2011	4.221	Nov 2012	5.287	Nov 2013	-		5.287	Continuing	Continuing	Continuing
Eng & Tech Spt Srvc (NON-FFRDC)	Various	VARIOUS:VARIOUS	48.453	4.600	Nov 2011	1.397	Nov 2012	1.121	Nov 2013	-		1.121	Continuing	Continuing	Continuing
Mgt & Prof SptT Srvc (FFRDC)	Various	VARIOUS:VARIOUS	9.490	0.066	Nov 2011	0.250	Nov 2012	0.225	Nov 2013	-		0.225	Continuing	Continuing	Continuing
Prior Years Mgmt Svcs no longer funded in the FYDP	Various	VARIOUS:VARIOUS	0.868	0.000		0.000		0.000		-		0.000	0.000	0.868	
Subtotal			178.706	12.808		9.488		10.633		0.000		10.633			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			275.966	25.087		19.453		19.624		0.000		19.624			
Remarks															

UNCLASSIFIED

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604261N: Acoustic Search Sensors

PROJECT

0480: ASW Sensors & Proc

Proj: 0480 ASW Sensors & Processors - Multistatic Active Coherent	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Acquisition Milestones																												
Milestones		MS C ▲			FRP Decision ◆																							
System Development																												
Hardware Development					ECP																							
EDM Delivery													H/W EDM ▼															
Software Development																												
Software Integration Delivery																												
Reviews																												
Test & Evaluation																												
Technical Evaluation																												
Development Test																	ECP Test											
Operational Evaluation			OT ▼																									
Production Milestones																												
Contract Awards		LRIP ●			FRP ● ECP ●																							
Deliveries																												

2014PB - 0604261N - 0480

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy																DATE: April 2013																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)												R-1 ITEM NOMENCLATURE PE 0604261N: Acoustic Search Sensors								PROJECT 0480: ASW Sensors & Proc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Proj: 0480 ASW Sensors & Processors - Advanced Processing Builds (APB)					FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
					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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Acquisition Milestones																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Milestones									APB (2) Fit Rel ▼									APB (3) Fit Rel ▼								APB (4) Fit Rel ▼																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
System Development																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Software Development					System Development																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
									APB (2) S/W Rel ▼									APB (3) S/W Rel ▼												APB (4) S/W Rel ▼																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604261N: <i>Acoustic Search Sensors</i>	PROJECT 0480: <i>ASW Sensors & Proc</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj: 0480 ASW Sensors & Processors - Multistatic Active Coherent</i>				
Acquisition Milestones: Milestones: Milestone C	2	2012	2	2012
Acquisition Milestones: Milestones: Full Rate Production (FRP) Decision	1	2013	1	2013
System Development: Hardware Development: Engineering Change Proposal	1	2013	4	2015
System Development: EDM Delivery: Eng Dev Model (H/W EDM) 2	1	2015	1	2015
System Development: Software Integration Delivery: Integration Software Delivery	3	2013	3	2013
Test & Evaluation: Development Test: Engineering Change Proposal Test	3	2015	4	2015
Test & Evaluation: Operational Evaluation: OT	3	2012	3	2012
Test & Evaluation: Operational Evaluation: Commence FOT&E	4	2013	4	2013
Production Milestones: Contract Awards: Low Rate Initial Production (LRIP)	2	2012	2	2012
Production Milestones: Contract Awards: Full Rate Production (FRP)	1	2013	1	2013
Production Milestones: Contract Awards: Engineering Change Proposal	1	2013	1	2013
<i>Proj: 0480 ASW Sensors & Processors - Advanced Processing Builds (APB)</i>				
Acquisition Milestones: Milestones: APB (2) Fleet Release	1	2013	1	2013
Acquisition Milestones: Milestones: APB (3) Fleet Release	1	2015	1	2015
Acquisition Milestones: Milestones: APB (4) Fleet Release	1	2017	1	2017
System Development: Software Development: System Development	1	2012	4	2018
System Development: Software Development: APB (2) Software Release	4	2012	4	2012
System Development: Software Development: APB (3) Software Release	4	2014	4	2014
System Development: Software Development: APB (4) Software Release	4	2016	4	2016
System Development: Software Development: APB (5) Software Release	4	2018	4	2018
Test & Evaluation: Technical Evaluation: APB (3) SQT	2	2014	2	2014

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604261N: <i>Acoustic Search Sensors</i>		PROJECT 0480: <i>ASW Sensors & Proc</i>
		Start		End
Events by Sub Project		Quarter	Year	Quarter
Test & Evaluation: Technical Evaluation: APB (4) SQT		2	2016	2
Test & Evaluation: Technical Evaluation: APB (5) SQT		2	2018	2

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604261N: <i>Acoustic Search Sensors</i>				PROJECT 3224: <i>High Altitude ASW</i>			
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
3224: <i>High Altitude ASW</i>	45.703	24.266	14.846	10.584	-	10.584	9.513	7.610	4.321	4.393	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
[#] 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												
A. Mission Description and Budget Item Justification												
The High Altitude Anti-Submarine Warfare (HAASW) program objective is to ensure Anti-Submarine Warfare (ASW) aircraft operational flexibility and effectiveness throughout the kill chain at higher than traditional ASW altitudes. FY11-FY16 R&D monies fund the Technology Development (TD), Test & Evaluation and Initial Operational Capability for HAASW integration into the P-8A aircraft. TD includes hardware modifications to existing ASW sonobuoys and software development for the aircraft. Global Positioning System (GPS) integration will provide precise sonobuoy location regardless of aircraft altitude/location to enhance wide area ASW search, localization, track and targeting. FY17-FY18 funds the continued GPS/Digital Telemetry effort to further reduce the kill chain. The digital telemetry will improve sonobuoy communication performance in high Radio Frequency Interference environments, increase Air Deployable Active Receiver channel availability, and provide NATO compatibility. P-8A software will be developed to process GPS and digital telemetry signals and to integrate algorithms that will adjust sonobuoy release/drop points for more accurate sonobuoy placement.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Provide precision delivery of sonobuoys										24.266	14.846	10.584
Articles:										0	0	0
FY 2012 Accomplishments:												
Sonobuoy Preliminary Design Review is planned for Apr 12. A P-8A Increment 2 Risk Reduction contract will be awarded initiating a P-8A Inc2 (HAASW) Capabilities Analysis and Planning study.												
FY 2013 Plans:												
Milestone B and Critical Design Review are planned. Boeing Increment 2 Integration contract will be awarded.												
FY 2014 Plans:												
Full-rate production decision on the qualified HAASW capable SSQ-53, SSQ-62 & SSQ-101. HAASW software and production representative sonobuoy all planned for P-8A Increment 2 Integration testing. Follow on test and evaluation will be initiated.												
Accomplishments/Planned Programs Subtotals										24.266	14.846	10.584
C. Other Program Funding Summary (\$ in Millions)												
N/A												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604261N: <i>Acoustic Search Sensors</i>	PROJECT 3224: <i>High Altitude ASW</i>
C. Other Program Funding Summary (\$ in Millions)		
Remarks		
D. Acquisition Strategy A 15 Mar 12 Acquisition Decision Memorandum from PEO(A) Milestone Decision Authority approved the transition from a planned Acquisition Category Program to a series of Engineering Change Proposal modifications to the AN/SSQ-53, AN/SSQ-62 and AN/SSQ-101 sonobuoys. The sonobuoy technology development contract was awarded in Aug 11. A follow-on contract to support the Government managed qualification and certification phase will be awarded in FY13. Systems level Test and Evaluation will be conducted on the P-8A.		
E. Performance Metrics Schedule and cost variances are used to track sonobuoy development. Should Cost methodology has also been employed to manage the development and production costs of the HAASW capable sonobuoys.		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604261N: Acoustic Search Sensors				PROJECT 3224: High Altitude ASW					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Primary Hdw Development	Various	VARIOUS:VARIOUS	5.009	0.376	Nov 2011	0.478	Nov 2012	0.000		-		0.000	Continuing	Continuing	Continuing
Primary Hdw Development	SS/CPIF	ERAPSCO:FT. WAYNE IN	11.980	11.389	Nov 2011	1.700	Nov 2012	1.800	Nov 2013	-		1.800	3.206	30.075	28.375
Subtotal			16.989	11.765		2.178		1.800		0.000		1.800			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Program Documentation	Various	VARIOUS:VARIOUS	0.450	0.500	Nov 2011	0.300	Dec 2012	0.000		-		0.000	Continuing	Continuing	Continuing
A/C Software Integration	C/CPFF	BOEING:SEATTLE WA	12.367	4.000	Nov 2011	5.601	Dec 2012	2.513	Nov 2013	-		2.513	Continuing	Continuing	Continuing
Prior year Support cost no longer funded in the FYDP	Various	VARIOUS:VARIOUS	3.611	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			16.428	4.500		5.901		2.513		0.000		2.513			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Dev Test & Eval	Various	VARIOUS:VARIOUS	0.450	0.500	Nov 2011	1.500	Nov 2012	3.200	Nov 2013	-		3.200	Continuing	Continuing	Continuing
Subtotal			0.450	0.500		1.500		3.200		0.000		3.200			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Contractor Eng Spt	Various	VARIOUS:VARIOUS	0.484	0.946	Oct 2011	0.746	Nov 2012	0.900	Nov 2013	-		0.900	Continuing	Continuing	Continuing
ENG & TECH SVCS (NON-FFRDC)	Various	VARIOUS:VARIOUS	0.719	2.294	Oct 2011	0.983	Nov 2012	0.000	Nov 2013	-		0.000	Continuing	Continuing	Continuing

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)							R-1 ITEM NOMENCLATURE PE 0604261N: Acoustic Search Sensors				PROJECT 3224: High Altitude ASW				
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		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 Complete	Total Cost	Target Value of Contract
Government Eng Spt	WR	NAWCAD: PATUXENT RIVER, MD	10.172	4.217	Oct 2011	3.511	Nov 2012	2.154	Nov 2013	-		2.154	Continuing	Continuing	Continuing
Travel	C/T&M	VARIOUS: VARIOUS	0.461	0.044	Oct 2011	0.027	Nov 2012	0.017	Nov 2013	-		0.017	Continuing	Continuing	Continuing
Subtotal			11.836	7.501		5.267		3.071		0.000		3.071			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			45.703	24.266		14.846		10.584		0.000		10.584			
Remarks															

UNCLASSIFIED

PE 0604261N: *Acoustic Search Sensors*
Navy

R-1 Line #91

R-1 ITEM NOMENCLATURE

PE 0604261N: *Acoustic Search Sensors*3224: *High Altitude ASW*

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604261N: <i>Acoustic Search Sensors</i>	PROJECT 3224: <i>High Altitude ASW</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj: 3224 High Altitude ASW				
Milestones: Milestones: Full Rate Production	3	2014	3	2014
Milestones: Milestones: Phase I P-8A Integration	1	2016	1	2016
Milestones: Milestones: Phase II GPS/Digital Telemetry	3	2018	3	2018
System Development: Hardware Development: Hardware System Development	1	2012	4	2018
System Development: Software Development: Aircraft Software Development/Integration	1	2012	4	2018
System Development: Reviews: PDR	3	2012	3	2012
System Development: Reviews: CDR	1	2013	1	2013
System Development: Reviews: PDR/CDR	2	2016	2	2016
Test & Evaluation: Technical Evaluation: Integrated Testing	1	2013	1	2015
Test & Evaluation: Operational Evaluation: P-8A FOT&E	2	2014	4	2015
Test & Evaluation: Operational Evaluation: Integrated Testing	4	2016	1	2018
Production Milestones: Contract Awards: Risk Reduction Contract Award	1	2012	1	2012
Production Milestones: Contract Awards: P-8 Integration Contract Award	1	2013	1	2013