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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Navy	<b>DATE:</b> April 2013
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<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>R-1 ITEM NOMENCLATURE</b>							
1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>					PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>							
<b>COST (\$ in Millions)</b>	<b>All Prior Years</b>	<b>FY 2012</b>	<b>FY 2013<sup>#</sup></b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO<sup>##</sup></b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	632.039	48.614	73.246	117.854	-	117.854	87.102	50.499	41.196	31.159	Continuing	Continuing
0529: <i>ABN Mine Hunt System</i>	239.988	15.440	4.513	50.177	-	50.177	26.678	10.520	10.710	4.881	Continuing	Continuing
2047: <i>ALMDS</i>	133.551	9.705	14.371	29.341	-	29.341	25.972	17.466	17.779	13.366	Continuing	Continuing
2427: <i>OASIS</i>	111.619	3.936	13.028	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	128.583
2473: <i>Airborne Mine Neutralization System</i>	128.615	16.922	36.864	32.201	-	32.201	25.603	14.192	2.344	2.382	Continuing	Continuing
4026: <i>Strat Into Medal, Tactics &amp; Trng Organic Force</i>	15.736	1.730	3.573	5.230	-	5.230	7.923	7.386	9.411	9.562	Continuing	Continuing
9179: <i>Surf Navy Integ Undersea Tactical Tech</i>	2.530	0.881	0.897	0.905	-	0.905	0.926	0.935	0.952	0.968	Continuing	Continuing

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

**A. Mission Description and Budget Item Justification**

This program element provides resources to develop advanced mine countermeasures equipment systems to counter known and projected mine threats. The mine countermeasures systems provide mobile, quick reaction forces capable of land or sea-based minehunting and minesweeping operations worldwide. Resources are for developing and deploying advanced mine-hunting and minesweeping systems and the intelligence and oceanographic capabilities that will enable mine warfare superiority. Tactics and techniques used vary across a diversity of environments and a diversity of threats, including both asymmetric and emerging. Resources provide for systems and support of mine warfare systems, maritime systems, and expeditionary systems to allow for continuous operations of the Navy's warships and support vessels, other military vessels, and commercial vessels. Core capabilities include forward presence, deterrence, sea control, power projection, maritime security, humanitarian assistance and disaster response to maintain freedom of the seas. Increased capability includes conducting minefield reconnaissance (mine density and location) at high area search rates, improving detection capability, decreasing sensor false alarm rates, reducing or eliminating post-mission analysis detect, classify, identify, decide time, improving neutralization time, improving network communications, automatic target recognition, and achieving in-stride detect-to-engage capability. Concept of operations includes development of cooperative, unmanned, modular systems; the establishment of a capable networked command and control systems; and standing up an accurate and interactive environmental system with the ability to form and disseminate a Common Environmental Picture. Other areas of importance include search and rescue; surface fire support; ASW operations; protection/offense against small craft/vehicles; air to air operations; very shallow water MCM; swimmer defense and torpedo defense. Efforts benefit the MCM force by transforming the Navy from the platform-centered legacy set of systems to a capability-centered force that is distributed, networked, and able to provide unique maritime influence and access across the entire maritime domain.

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>
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The Airborne Mine Countermeasures (AMCM) programs are platform independent and will provide detection, classification, localization, identification, neutralization, and influence clearance capabilities. The "Next Generation" AMCM systems will provide capabilities to the Littoral Combat Ship (LCS) Mine Countermeasure Mission (MCM) Package. This capability will be of critical importance in littoral zones, confined straits, choke points, near surface and the Amphibious Objective Area (AOA).

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>
Previous President's Budget	41.142	73.246	60.584	-	60.584
Current President's Budget	48.614	73.246	117.854	-	117.854
Total Adjustments	7.472	0.000	57.270	-	57.270
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	8.100	0.000			
• SBIR/STTR Transfer	-0.628	0.000			
• Program Adjustments	0.000	0.000	20.947	-	20.947
• Rate/Misc Adjustments	0.000	0.000	36.323	-	36.323

**Change Summary Explanation**

Program Adjustments: FY14 +\$20,947 in Total Adjustments: AN/AQS-20A P3I +\$17,000, AN/AQS-24 +\$8,174K, OASIS -\$4,227K, and -\$36,323K Misc adjustments: FY14 AN/AQS-24 +\$15,066K, ALMDS +\$7,666K, AMNS N/S +\$13,591K.

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 0529: ABN Mine Hunt System			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
0529: ABN Mine Hunt System	239.988	15.440	4.513	50.177	-	50.177	26.678	10.520	10.710	4.881	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												
This project contains resources for systems, subsystems, and sensors for mine detection, classification, localization, identification, neutralization, and influence clearance capabilities. Research, development, test, and evaluation efforts are for increasing critical capacity, decreasing time required to conduct MCM operations, ensuring low risk to naval and commercial vessels, and removing the man from the minefield. Increased capability includes conducting minefield reconnaissance (mine density and location) at high area search rates, improving detection capability, decreasing sensor false alarm rates, reducing or eliminating post-mission analysis detect, classify, identify, decide time, improving neutralization time, improving network communications, automatic target recognition, anch achieving in-stride detect-to-engage capability.												
The AN/AQS-20A is being developed to address the emergent requirements for mine identification and to integrate with the Littoral Combat Ship (LCS) Mine Countermeasures (MCM) Misison Module. The AN/AQS-20A will be the mine hunting sonar component for the Remote Minehunting System (RMS).												
The AN/AQS-20A Pre-Planned Product Improvement (P3I) program upgrades the Forward Looking and Side-Looking sonars to improve Probability of Classifying a Mine-like object as a Mine, False Classification Rates, and Depth Localization performance. The Forward Looking Sonar will be replaced with a new High Frequency Wideband based design. The Side Looking Sonar will be replaced to improve signal processing and Signal to Noise Ratio. The P3I program began in FY12 and will complete in FY15.												
The AN/AQS-24 Volume Search upgrade will be developed, tested, and integrated for use with multiple platforms including the MH-53E Helicopter.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: AN/AQS-20 Product Development:									13.987	3.250	21.200	
									0	0	0	
FY 2012 Accomplishments:												
- Evaluated Forward Look Sonar (FLS) to improve detection and localization of volume and close-tethered mines.												
- Conducted P3I Design Review I and II. Purchased P3I Long Lead Items.												
- Initiated fabrication of improved FLS.												
FY 2013 Plans:												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
- Complete fabrication and subsystem testing of three FLS sensors. - Initiate fabrication of three sets of improved Side Looking Sonar (SLS) sensors. <b>FY 2014 Plans:</b> - Complete fabrication and subsystem testing of improved SLS sensors. - Integrate improved sensors into Engineering Development Models (EDMs). - Deliver three P3I EDMs for Developmental Testing. - Initiate RMS Integration				
<b>Title:</b> AN/AQS-20 Support:  <b>Description:</b> RDT&E Articles Quantity  <b>FY 2012 Accomplishments:</b> - Provided ongoing technical engineering support to AN/AQS-20A.  <b>FY 2013 Plans:</b> - Provide ongoing technical engineering support to AN/AQS-20A and P3I development efforts.  <b>FY 2014 Plans:</b> - Provide ongoing technical engineering support to AN/AQS-20A and P3I development efforts.		<b>Articles:</b> 0.737 0	0.494 0	0.616 0
<b>Title:</b> AN/AQS-20 Test and Evaluation  <b>Description:</b> RDT&E Articles Quantity  <b>FY 2012 Accomplishments:</b> - Provided AN/AQS-20A support of Littoral Combat Ship (LCS) 2 Mine Countermeasures Mission Package Developmental Testing.  <b>FY 2013 Plans:</b> - Support Littoral Combat Ship (LCS) MCM Developmental Testing (DT) events. - Update AN/AQS-20A Test and Evaluation Master Plan. - Support RMS Reliability Growth Program (RGP) Testing and DT.  <b>FY 2014 Plans:</b> - Participate in LCS MCM Mission Module Technical Evaluation and Initial Operational Test and Evaluation (IOT&E).		<b>Articles:</b> 0.552 0	0.636 0	4.724 0

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>		<b>PROJECT</b> 0529: <i>ABN Mine Hunt System</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>			<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
- Support RMS Version 6.0 Testing.					
<b>Title:</b> AN/AQS-20 Management Services  <b>Description:</b> RDT&E Articles Quantity  <b>FY 2012 Accomplishments:</b> - Completed Request for Proposal for follow-on Low Rate Initial Production (LRIP) and Full Rate Production (FRP) contract. - Continued to provide planning and management for the AN/AQS-20A program.  <b>FY 2013 Plans:</b> - Continue to provide planning and management for the AN/AQS-20A program.  <b>FY 2014 Plans:</b> - Continue to provide planning and management for the AN/AQS-20A program.			<b>Articles:</b> 0.164 0	0.133 0	0.237 0
<b>Title:</b> AN AQS-24 Product Development  <b>FY 2014 Plans:</b> Develop and integrate a volume search capability for the AN/AQS-24.			<b>Articles:</b> 0.000	0.000	13.509 0
<b>Title:</b> AN AQS-24 Test and Evaluation  <b>FY 2014 Plans:</b> Test the AN/AQS-24 volume search capability on the MH-53E Helicopter.			<b>Articles:</b> 0.000	0.000	7.090 0
<b>Title:</b> AN AQS-24 Program Management  <b>FY 2014 Plans:</b> Provide management support for the development of the Q-24 Volume Search Capability			<b>Articles:</b> 0.000	0.000	0.250 0
<b>Title:</b> AN AQS-24 Support  <b>FY 2014 Plans:</b> Provide Engineering and Logistical support for the development of the AN/AQS-24 Volume Search Capability			<b>Articles:</b> 0.000	0.000	2.551 0
<b>Accomplishments/Planned Programs Subtotals</b>			15.440	4.513	50.177

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 0529: ABN Mine Hunt System			
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 4248: Airborne Mine Countermeasure (AN/AQS-20A)	2.017	0.000	52.000		52.000	15.500	10.000	0.000	0.000	Continuing	Continuing
• OPN 1601: LCS MCM Mission Modules (AN/AQS-20A)	0.000	15.800	24.294		24.294	58.100	50.647	51.507	52.434	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
AN/AQS-20A achieved Milestone C on 10 May 2005. Delay in IOTE caused revision to Acquisition Strategy prior to Full Rate Production. LRIP procurement began in FY05, FY06, FY07, and is planned for FY13. FRPDR will occur in first quarter FY16.											
E. Performance Metrics											
Successfully complete IOT&E.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						PE 0604373N: Airborne Mine Countermeasures (AMCM)				0529: ABN Mine Hunt System					
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
AN/AQS-20A Hardware/ Software Development Q-20 on the H-53	SS/CPIF	Raytheon:Portsmouth, RI	31.120	0.000		0.000		0.000		-		0.000	0.000	31.120	
AN/AQS-20A Hardware/ Software Development Q-20A on the H-60	C/CPFF	Raytheon:Portsmouth, RI	60.150	0.000		0.000		0.000		-		0.000	0.000	60.150	
AN/AQS-20A Hardware/ Software Development	WR	NSWC, PC:Panama City FL	14.578	0.000		0.000		0.000		-		0.000	0.000	14.578	
AN/AQS-20A Hardware/ Software Development	C/FP	Northrop Grumman:Melbourne, FL	4.572	0.000		0.000		0.000		-		0.000	0.000	4.572	
AN/AQS-20A P3I	C/CPFF	Raytheon:Portsmouth, RI	0.000	8.159	Oct 2011	2.000	Oct 2012	11.010	Oct 2013	-		11.010	Continuing	Continuing	Continuing
AN/AQS-20A P3I	C/CPFF	ARL/UT:Austin, TX	0.000	4.407	Oct 2011	1.000	Oct 2012	5.610	Oct 2013	-		5.610	Continuing	Continuing	Continuing
AN/AQS-20A P3I	WR	NSWC, PC:Panama City FL	0.000	1.421	Dec 2011	0.250	Oct 2012	4.580	Oct 2013	-		4.580	0.000	6.251	
AN/AQS-24 Hardware/ Software Development	C/CPIF	Northrop Grumman:Annapolis, MD	0.000	0.000		0.000		8.790	Nov 2013	-		8.790	0.000	8.790	
AN/AQS-24 Hardware/ Software Development	C/CPFF	ARL/UT:Austin, TX	0.000	0.000		0.000		4.191	Nov 2013	-		4.191	0.000	4.191	
AN/AQS-24 Hardware/ Software Development	WR	NSWC, PC:Panama City, FL	0.000	0.000		0.000		0.528	Nov 2013	-		0.528	0.000	0.528	
Subtotal			110.420	13.987		3.250		34.709		0.000		34.709			
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
AN/AQS-20A Engineering Services	WR	NSWC, PC:Panama City, FL	31.018	0.208	Oct 2011	0.494	Oct 2012	0.616	Oct 2013	-		0.616	Continuing	Continuing	Continuing

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<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
AN/AQS-20A Engineering Services	C/CPFF	Raytheon:Portsmouth, RI	3.686	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
AN/AQS-20A Engineering Services	Various	Various:Various	54.018	0.000		0.000		0.000		-		0.000	0.000	54.018	
AN/AQS-20A Engineering Services 2	SS/CPIF	Raytheon:Portsmouth, RI	3.464	0.000		0.000		0.000		-		0.000	0.000	3.464	
AN/AQS-20A ILS Function	WR	NSWC, PC:Panama City FL	6.339	0.029	Oct 2011	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
AN/AQS-20A ILS Function	SS/CPIF	Raytheon:Portsmouth, RI	1.546	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
AN/AQS-20A ILS Function	Various	Various:Various	0.981	0.000		0.000		0.000		-		0.000	0.000	0.981	
AN/AQS-20A Engineering Services	WR	NSWC/ CD:Carderock, MD	0.000	0.500	May 2012	0.000		0.000		-		0.000	0.000	0.500	
AN/AQS-24 Engineering Services/ILS Functions	C/CPIF	Northrop Grumman:Annapolis, MD	0.000	0.000		0.000		0.250	Nov 2013	-		0.250	0.000	0.250	
AN/AQS-24 Engineering Services/ILS Functions	C/CPFF	ARL/UT:Austin, TX	0.000	0.000		0.000		0.741	Nov 2013	-		0.741	0.000	0.741	
AN/AQS-24 Engineering Services/ILS Functions	WR	NSWC, PC:Panama City, FL	0.000	0.000		0.000		1.560	Nov 2013	-		1.560	0.000	1.560	
<b>Subtotal</b>			101.052	0.737		0.494		3.167		0.000		3.167			
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
AN/AQS-20A T&E Functions	WR	COTF:Norfolk, VA	0.000	0.000		0.000		0.300	Oct 2013	-		0.300	0.000	0.300	
AN/AQS-20A T&E Functions	WR	NSWC, PC:Panama City FL	17.413	0.552	Oct 2011	0.636	Oct 2012	4.424	Oct 2013	-		4.424	Continuing	Continuing	Continuing
AN/AQS-20A T&E Functions	C/CPFF	Raytheon:Portsmouth, RI	4.134	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing



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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
AN/AQS-20A T&E Functions	Various	Various:Various	1.583	0.000		0.000		0.000		-		0.000	0.000	1.583	
AN/AQS-24 T&E Functions	WR	NSWC, PC:Panama City, FL	0.000	0.000		0.000		2.700	Nov 2013	-		2.700	0.000	2.700	
AN/AQS-24 T&E Functions	WR	NAVAIR:Pax River, MD	0.000	0.000		0.000		0.290	Nov 2013	-		0.290	0.000	0.290	
AN/AQS-24 T&E Functions	WR	COTF:Norfolk, VA	0.000	0.000		0.000		2.600	Nov 2013	-		2.600	0.000	2.600	
AN/AQS-24 T&E Functions	C/CPIF	Northrop Grumman:Annapolis, MD	0.000	0.000		0.000		1.000	Nov 2013	-		1.000	0.000	1.000	
AN/AQS-24 T&E Functions	C/CPFF	ARL/UT:Austin, TX	0.000	0.000		0.000		0.500	Nov 2013	-		0.500	0.000	0.500	
Subtotal			23.130	0.552		0.636		11.814		0.000		11.814			
Remarks															
COFT - Naval Command Operational Test and Evaluation Force															
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
AN/AQS-20A Management Services	TBD	Various:Various	4.795	0.156	Oct 2011	0.133	Oct 2012	0.237	Oct 2013	-		0.237	Continuing	Continuing	Continuing
AN/AQS-20A Travel	TBD	Various:Various	0.579	0.008	Oct 2011	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
AN/AQS-20A Acquisition Workforce Fund	Various	Various:Various	0.012	0.000		0.000		0.000		-		0.000	0.000	0.012	
AN/AQS-24 Program Management	WR	NSWC, PC:Panama City, FL	0.000	0.000		0.000		0.250	Nov 2013	-		0.250	0.000	0.250	
Subtotal			5.386	0.164		0.133		0.487		0.000		0.487			

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	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	239.988	15.440		4.513		50.177		0.000		50.177				

Remarks

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PE 0604373N: *Airborne Mine Countermeasures (AMCM)*  
Navy

DATE: April 2013

## R-1 ITEM NOMENCLATURE

PE 0604373N: *Airborne Mine Countermeasures (AMCM)*

0529: *ABN Mine Hunt System*

2014PB - 0604373N - 0529

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PE 0604373N: *Airborne Mine Countermeasures (AMCM)*  
Navy

<b>PROJECT</b>
0529: <i>ABN Mine Hunt System</i>

## R-1 ITEM NOMENCLATURE

PE 0604373N: Airborne Mine Countermeasures (AMCM)

AN-AQS 24 C		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				
Contracting Strategy																																	
	Contract							Contract Award ▲							Production Option Award ▲																		
Decision Reviews																																	
	Decisions								PDR ▲	CDR ▲	TRR ▲			PCA ▲																			
Test and Evaluation																																	
	Testing									Testing																							
Sytem Deliveries and Installs																																	
	Engineering Development Model Delivery													EDM Delivery																			
	Production Sytem Deliveries													C Kit Production																			

2014PB - 0604373N - 0529

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**Exhibit R-4A, RDT&E Schedule Details:** 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 0604373N: *Airborne Mine Countermeasures (AMCM)*

## PROJECT

0529: *ABN Mine Hunt System*

## Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 0529</b>				
AN/AQS-20A Full Rate Production (FRP) Decision	1	2016	1	2016
AN/AQS-20A Development Phase: AN/AQS-20A P3I	1	2012	4	2015
AN/AQS-20A Development Phase: AN/AQS-20A P3I Design Review I	3	2012	3	2012
AN/AQS-20A Development Phase: AN/AQS-20A P3I Design Review II	4	2012	4	2012
AN/AQS-20A Test & Evaluation Milestones: AN/AQS-20A IOT&E	4	2014	1	2015
AN/AQS-20A Test & Evaluation Milestones: AN/AQS-20A Littoral Combat Ship Based LCS MCM Mission Module OT	4	2014	1	2015
AN/AQS-20A Production Milestones: AN/AQS-20A Low Rate Initial Production (LRIP): AN/AQS-20A Low Rate Initial Production (LRIP) Basic Award (LRIPs 1 & 2)	4	2013	4	2013
AN/AQS-20A Production Milestones: AN/AQS-20A Low Rate Initial Production (LRIP): AN/AQS-20A Low Rate Initial Production (LRIP) Option 1 Award (LRIPs 3 - 5)	4	2014	4	2014
AN/AQS-20A Production Milestones: AN/AQS-20A Low Rate Initial Production (LRIP): AN/AQS-20A Low Rate Initial Production (LRIP) Option 2 Award (LRIPs 6 - 12)	2	2015	2	2015
AN/AQS-20A Production Milestones: AN/AQS-20A Full Rate Production (FRP): AN/AQS-20A Full Rate Production (FRP) Basic Award (FRPs 13 - 18)	3	2016	3	2016
AN/AQS-20A Production Milestones: AN/AQS-20A Full Rate Production (FRP): AN/AQS-20A Full Rate Production (FRP) Option 1 Award (FRPs 19 - 24)	3	2017	3	2017
AN/AQS-20A Production Milestones: AN/AQS-20A Full Rate Production (FRP): AN/AQS-20A Full Rate Production (FRP) Option 2 Award (FRPs 25 - 30)	2	2018	2	2018
AN/AQS-20A System Deliveries: AN/AQS-20A LRIP Base Award Systems (LRIPs 1 & 2)	3	2016	4	2016
AN/AQS-20A System Deliveries: AN/AQS-20A LRIP Option 1 Award Systems (LRIPs 3 - 5)	4	2016	1	2017

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Exhibit R-4A, RDT&E Schedule Details: 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 0604373N: Airborne Mine Countermeasures (AMCM)		PROJECT 0529: ABN Mine Hunt System
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
AN/AQS-20A System Deliveries: AN/AQS-20A LRIP Option 2 Award Systems (LRIPs 6 - 12)		2	2017	4 2017
AN/AQS-20A System Deliveries: AN/AQS-20A FRP Basic Award Systems (FRPs 13 - 18)		3	2018	4 2018
AN-AQS 24 C				
Contracting Strategy: Contract: Contract Award		3	2013	3 2013
Contracting Strategy: Contract: Contract Option Award		2	2015	2 2015
Decision Reviews: Decisions: Preliminary Design Review		4	2013	4 2013
Decision Reviews: Decisions: Critical Design Review		1	2014	1 2014
Decision Reviews: Decisions: Test Readiness Review		2	2014	2 2014
Decision Reviews: Decisions: Physical Configuration Audit		1	2015	1 2015
Test and Evaluation: Testing: Testing		2	2014	4 2014
Sytem Deliveries and Installs: Engineering Development Model Delivery: Engineering Development Model Delivery		1	2015	2 2015
Sytem Deliveries and Installs: Production Sytem Deliveries: C Kit Production		2	2015	4 2016
Sytem Deliveries and Installs: Production Sytem Deliveries: C Kit Deliveries & Installs		3	2016	4 2016

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 2047: ALMDS			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2047: ALMDS	133.551	9.705	14.371	29.341	-	29.341	25.972	17.466	17.779	13.366	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 Airborne Laser Mine Detection System (ALMDS), designation AN/AES-1, is a light detection and ranging (LIDAR) Airborne Mine Countermeasures (AMCM) high area coverage system that detects, classifies, and localizes floating and near-surface , moored sea mines. The system is deployed from the MH-60S helicopter and will provide Organic Airborne Mine Countermeasures (OAMCM) defense to the battle force. The system represents a capability that does not exist in the current Mine Countermeasures (MCM) inventory.												
ALMDS first spiral development phase, very shallow water capability, begins in FY2016.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Hardware and Software technology development and demonstration/Engineering Services:  Articles:  Description: TDA Engineering/oversight/support of engineering efforts to meet baseline performance and full performance.  FY 2012 Accomplishments: Maintained Task Trainer, shipping containers, system engineering, POD Repairs, NGC PDTs.  FY 2013 Plans: FY13 New computer, P3I, receiver ECP, CEC retrofit, start false alarm VSW Algorithm P3I  FY 2014 Plans: Continue False Alarm, VSW Algorithm P3I, Increment 2 award										7.324	9.771	21.847
										0	0	0
Title: Integrated Logistics Support:  Articles:  FY 2012 Accomplishments: FY12 Close ILA Findings, provided logistics support to LRIP Units  FY 2013 Plans:										1.250	1.500	1.250
										0	0	0

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 2047: ALMDS				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
FY13 Provide Logistics, maintenance and depot support analysis to LRIP Units.												
FY 2014 Plans: FY13 Provide Logistics, maintenance and depot support analysis to LRIP Units.												
Title: Testing and Evaluation:  Articles:										0.308 0	1.305 0	4.268 0
FY 2012 Accomplishments: Completed OA												
FY 2013 Plans: Environmental Qualification Test (EQT) and planning for Data Collection Test												
FY 2014 Plans: IOT&E Test on LCS and P3I testing. Data Collection Analysis and Report												
Title: Project Management:  Articles:										0.823 0	1.795 0	1.976 0
Description: Completion of OA												
FY 2012 Accomplishments: TDA Program Management, Financial Management and Contractor support.												
FY 2013 Plans: TDA Program Management, Financial Management and Contractor support.												
FY 2014 Plans: TDA Program Management, Financial Management and Contractor support.												
Accomplishments/Planned Programs Subtotals										9.705	14.371	29.341
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 4248: Airborne MCM	0.000	31.976	15.738		15.738	9.000	0.000	0.000	0.000	0.000	120.866	
• OPN 1601: LCS MCM Mission Modules	0.000	7.819	7.951		7.951	16.173	16.448	16.728	17.062	105.764	187.945	



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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Navy										<b>DATE:</b> April 2013	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>					<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>			<b>PROJECT</b> 2047: <i>ALMDS</i>			
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
<b>Remarks</b>											
<b>D. Acquisition Strategy</b>											
<p>The program entered Production and Development Acquisition Phase following MS C in May 2005. August 2007 program authorized to meet full performance in two increments. FRP will be based on Increment 1 performance. In FY13 new competitive awarded FFP production contract is planned. The first LRIP lot of two units was awarded as a new sole-source contract to the SD&amp;D contractor in FY05. This is a Fixed-Price Incentive (FPI) contract with cost and schedule incentives. The March 2006 Program Review decision memorandum approved the ALMDS Program for LRIP 2 procurement of two units for FY07 pending successful demonstration of Engineering Change Proposal (ECP) I performance during DT-IID; DT-IID Phase B was conducted on an SH-60F helicopter and DT-IID phase C will be conducted on an MH-60S helicopter.</p>											
<b>E. Performance Metrics</b>											
<p>Successfully complete Operational Assessment (OA) and LCS IOT&amp;E and receive Initial Operational Capability (IOC).</p>											

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>						<b>PROJECT</b> 2047: <i>ALMDS</i>			
<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Hardware/Software Development	WR	NSWC PC:Panama City FL	0.942	0.000	Nov 2011	0.755	Nov 2012	1.940	Nov 2013	-		1.940	0.000	3.637	
Hardware/Software Development	C/CPAF	Northrop Grumman:Melbourne, FL	29.061	0.000	Nov 2011	3.022	Nov 2012	8.920	Nov 2013	-		8.920	0.000	41.003	
Hardware/Software Development	MIPR	Metron:VA	1.083	0.000		0.000		0.000		-		0.000	0.000	1.083	
Hardware/Software Development	C/CPAF	SAIC:VA	0.200	0.000		0.000		0.000		-		0.000	0.000	0.200	
Engineering Services1	WR	NSWC PC:Panama City FL	12.265	1.444	Nov 2011	1.985	Nov 2012	3.632	Nov 2013	-		3.632	Continuing	Continuing	Continuing
Engineering Services2	C/CPAF	Northrop Grumman:Melbourne, FI	16.298	4.074	Nov 2011	1.250	Nov 2012	2.839	Nov 2013	-		2.839	0.000	24.461	
Engineering Services3	SS/CPIF	Various:Various	15.118	1.806	Nov 2011	2.759	Nov 2012	4.516	Nov 2013	-		4.516	Continuing	Continuing	Continuing
Engineering Services4	MIPR	Various:Various	3.922	0.000	Nov 2011	0.000	Nov 2012	0.000		-		0.000	Continuing	Continuing	Continuing
Engineering Services5	C/CPAF	Metron/Arete:Various	1.024	0.000	Nov 2011	0.000	Nov 2012	0.000		-		0.000	0.000	1.024	
<b>Subtotal</b>			79.913	7.324		9.771		21.847		0.000		21.847			
<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
ILS Functions1	WR	NSWC PC:Panama City FL	3.094	0.250	Nov 2011	0.750	Nov 2012	0.750	Nov 2013	-		0.750	Continuing	Continuing	Continuing
ILS Functions2	WR	NrothGru:Melbourne FL	5.725	1.000	Nov 2011	0.750	Nov 2012	0.500	Nov 2013	-		0.500	Continuing	Continuing	Continuing
ILS Functions3	C/CPAF	Various/NRL Stennins:Various	1.062	0.000	Nov 2011	0.000		0.000		-		0.000	0.000	1.062	
ILS Functions4	WR	NSWC PC:Panama City FL	0.300	0.000		0.000		0.000		-		0.000	0.000	0.300	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: Airborne Mine Countermeasures (AMCM)						<b>PROJECT</b> 2047: ALMDS			
<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Subtotal</b>			10.181	1.250		1.500		1.250		0.000		1.250			
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Testing and Evaluation1	C/CPAF	NorthGru:Melbourne FL	14.567	0.308	Nov 2011	0.000	Nov 2013	2.000	Nov 2013	-		2.000	Continuing	Continuing	Continuing
Testing and Evaluation2	WR	NSWC PC:Panama City FL	18.030	0.000		1.305	Nov 2012	2.268	Nov 2013	-		2.268	Continuing	Continuing	Continuing
Testing and Evaluation	C/CPAF	Various:Various	1.894	0.000		0.000		0.000		-		0.000	0.000	1.894	
Testing and Evaluation	WR	NAWC AD PAX:Panama City FL	2.110	0.000		0.000		0.000		-		0.000	0.000	2.110	
<b>Subtotal</b>			36.601	0.308		1.305		4.268		0.000		4.268			
<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Management Support1	C/CPAF	NGC:Various	0.000	0.000	Nov 2011	0.650	Nov 2012	0.650	Nov 2013	-		0.650	0.000	1.300	
Management Support2	WR	NSWC PC:Panama City FL	5.267	0.000	Nov 2011	1.095	Nov 2012	1.276	Nov 2013	-		1.276	0.000	7.638	
Management Support3	WR	ARINC:Panama City FL	1.559	0.773	Nov 2011	0.000	Nov 2012	0.000		-		0.000	0.000	2.332	
DAWDF	Various	Various:Various	0.030	0.050	Nov 2012	0.050	Nov 2012	0.050	Nov 2013	-		0.050	0.000	0.180	
<b>Subtotal</b>			6.856	0.823		1.795		1.976		0.000		1.976	0.000	11.450	
<b>Project Cost Totals</b>			133.551	9.705		14.371		29.341		0.000		29.341			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy							DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE			PROJECT				
1319: Research, Development, Test & Evaluation, Navy			PE 0604373N: Airborne Mine			2047: ALMDS				
BA 5: System Development & Demonstration (SDD)			Countermeasures (AMCM)							
	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	

Remarks

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**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 0604373N: *Airborne Mine Countermeasures (AMCM)*

**PROJECT**

2047: *ALMDS*

ALMDS	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
<b>Acquisition Milestones</b>																												
Full Rate Production Decision													FRPD ▲															
Initial Operating Capability													IOC ▲								IOC P3I ▲							
<b>System Development</b>																												
Increment I Development	Increment I Development				Increment I P3I																							
Increment II Development					Increment II Development																							
<b>Test &amp; Evaluation Milestones</b>																												
DT-IIIE																												
DT/IT (Techeval IT)																												
OT OPERATIONAL TESTING (OPEVAL)		OA								LCS IOT&E																		
<b>Production Milestones</b>																												
		LRIP #4 ▲					LRIP #5 ▲				LRIP #6 ▲			FRP #1 ▲				FRP #2 ▲				FRP #3 ▲				FRP #4 ▲		
<b>Production Deliveries</b>																												
			LRIP #3				LRIP #4				LRIP #5			LRIP #6				FRP #1				FRP #2						

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>	<b>PROJECT</b> 2047: <i>ALMDS</i>	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>ALMDS</b>				
Acquisition Milestones: Full Rate Production Decision: Full Rate Production Decision	1	2015	1	2015
Acquisition Milestones: Initial Operating Capability: Initial Operating Capability	1	2015	1	2015
Acquisition Milestones: Initial Operating Capability: Initial Operating Capability P3I	3	2017	3	2017
System Development: Increment I Development: Increment I Development	1	2012	4	2012
System Development: Increment I Development: Increment I P3I	1	2013	4	2015
System Development: Increment II Development: Increment II Development	2	2013	4	2018
Test & Evaluation Milestones: OT OPERATIONAL TESTING (OPEVAL): OPERATIONAL ASSESSMENT (OA)	2	2012	3	2012
Test & Evaluation Milestones: OT OPERATIONAL TESTING (OPEVAL): LCS IOT&E	2	2014	4	2014
Production Milestones: LRIP 4 Units start	2	2012	2	2012
Production Milestones: LRIP 5 Units start	3	2013	3	2013
Production Milestones: LRIP 6 Units start	3	2014	3	2014
Production Milestones: Full Rate Production (FRP) Start (FRP 1)	3	2015	3	2015
Production Milestones: Full Rate Production (FRP) Start (FRP 2)	3	2016	3	2016
Production Milestones: Full Rate Production (FRP) Start (FRP 3)	3	2017	3	2017
Production Milestones: Full Rate Production (FRP) Start (FRP 4)	3	2018	3	2018
Production Deliveries: LRIP 3 Units Deliveries	3	2012	4	2012
Production Deliveries: LRIP 4 Units Deliveries	3	2013	4	2013
Production Deliveries: LRIP 5 Units Deliveries	4	2014	1	2015
Production Deliveries: LRIP 6 Units Deliveries	4	2015	1	2016
Production Deliveries: Full Rate Production Delivery Start (FRP 1)	4	2016	1	2017

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>		PROJECT 2047: <i>ALMDS</i>	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Production Deliveries: Full Rate Production Delivery Start (FRP 2)		4	2017	1	2018

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 2427: OASIS			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2427: OASIS	111.619	3.936	13.028	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	128.583
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 Organic Airborne and Surface Influence Sweep (OASIS) system is a towed Minesweeping System to be deployed from specially configured MH-60S helicopters. The system provides a rapid response sweeping capability against bottom and moored, buried, acoustic and magnetic, or combination acoustic/magnetic influence mines in support of mine clearance operations where mine hunting is ineffective. The system consists of a towed body, sweep cable system, power inverter, power distribution unit and storage/shipping containers. System interfaces with the MH-60S helicopter via the carriage, stream, tow and recovery system and the common console. The program is currently in the SD&D phase where three Engineering Development Models (EDMs) are being developed for test and evaluation. Areas of interest for program enhancement include but are not limited to the following: A) Real-time Mission Planning B) Threat Emulation Jamming C) Improved Power Inverter D) Light weight winch drive-train E) Improved magnetic performance.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Product Development:  Articles:  FY 2012 Accomplishments: Investigated and began FY12 changes to EDM based upon testing results.  FY 2013 Plans: FY13 Perform Systems Reliability Improvements									0.600 0	2.200 0	0.000	
Title: Engineering and ILS:  Articles:  FY 2012 Accomplishments: Conducted PCA, supported DT. Prepared for MSC LRIP Decision  FY 2013 Plans: FY13 Systems Reliability Improvements, update ILS procedures based upon design changes, Support Operational Testing and prepare for FRP decision.									1.500 0	6.222 0	0.000	
Title: Testing:  Articles:									1.596 0	4.200 0	0.000	



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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: Airborne Mine Countermeasures (AMCM)				<b>PROJECT</b> 2427: OASIS				
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>										FY 2012	FY 2013	FY 2014
<b>FY 2012 Accomplishments:</b> Conducted CT, and started DT events.												
<b>FY 2013 Plans:</b> Complete DT, and Operational Assessment (OA). Begin DTII Testing on Design Improvements												
<b>Title:</b> Program Management										0.240	0.406	0.000
<b>Articles:</b>										0	0	
<b>FY 2012 Accomplishments:</b> Monitored contractor progress with regard to schedule, cost, and technical status management and prepared for FRP decision.												
<b>FY 2013 Plans:</b> Monitor contractor progress with regard to schedule, cost, and technical status management and prepare for FRP decision												
<b>Accomplishments/Planned Programs Subtotals</b>										3.936	13.028	0.000
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
<b>Line Item</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b> <b>Base</b>	<b>FY 2014</b> <b>OCO</b>	<b>FY 2014</b> <b>Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	
• OPN 4248: Airborne MCM - OASIS	0.000	10.900	0.000		0.000	0.000	0.000	0.000	0.000	0.000	10.900	
• OPN 1601: LCS MCM Mission Modules	0.000	3.533	0.000		0.000	0.000	0.000	0.000	0.000	0.000	3.533	
<b>Remarks</b>												
<b>D. Acquisition Strategy</b> After Milestone B review in FY02, an SD&D contract was awarded. In FY07, the program successfully completed MH-53 CT and Tower Testing. MH-60 CT is planned for FY11. DT in FY12 and OPEVAL in FY13.												
<b>E. Performance Metrics</b> Successfully complete contractor test on the Body Mounted Electrode (BME) design and receive Milestone C approval.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy						PE 0604373N: Airborne Mine Countermeasures (AMCM)				2427: OASIS					
BA 5: System Development & Demonstration (SDD)															
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
Hardware/Software Development	C/CPFF	ITT Corp.:Panama City FI	2.279	0.200	Nov 2011	1.750	Nov 2012	0.000		-		0.000	0.000	4.229	
Hardware/Software Development for BME	C/CPIF	EDO Corp.:NY	12.689	0.000		0.000		0.000		-		0.000	0.000	12.689	
Hardware/Software Development	SS/CPFF	Aeptec Microsystems Inc.:AZ	5.898	0.000		0.000		0.000		-		0.000	0.000	5.898	
Hardware/Software Development	WR	NSWC PC:Panama City FI	1.176	0.400	Nov 2011	0.450	Nov 2012	0.000		-		0.000	1.473	3.499	
Subtotal			22.042	0.600		2.200		0.000		0.000		0.000	1.473	26.315	
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
Engineering Services	WR	NUWC Keyport:Keyport, WA	0.659	0.000		0.000		0.000		-		0.000	0.000	0.659	
Engineering Services	C/CPIF	EDO/ITT Corp.:Panama City FI	17.275	0.353	Nov 2011	3.200	Nov 2012	0.000		-		0.000	0.000	20.828	
Engineering Services	WR	NSWC PC:Panama City FI	18.910	0.358	Nov 2011	1.389	Nov 2012	0.000		-		0.000	0.000	20.657	
Engineering Services	WR	NSWC Carderock MD:Bathesda, MD	0.300	0.000	Nov 2011	0.000		0.000		-		0.000	0.000	0.300	
Engineer Services/ILS	WR	Various:Various	0.548	0.000		0.000		0.000		-		0.000	0.000	0.548	
Engineering Services	WR	ONR:Wash DC	9.960	0.389	Nov 2011	0.783	Nov 2012	0.000		-		0.000	0.499	11.631	
ILS Functions	C/CPIF	EDO Corp.:NY	5.772	0.200	Nov 2011	0.300	Nov 2012	0.000		-		0.000	0.195	6.467	
ILS Functions	WR	NSWC, PC:Panama City FI	3.613	0.200	Nov 2011	0.550	Nov 2012	0.000		-		0.000	0.412	4.775	
Subtotal			57.037	1.500		6.222		0.000		0.000		0.000	1.106	65.865	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>						<b>PROJECT</b> 2427: <i>OASIS</i>			
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
T&E Functions	C/CPIF	ITT Corp:Panama City FI	8.542	1.300	Nov 2011	0.500	Nov 2012	0.000		-		0.000	0.000	10.342	
T&E Functions	WR	NSWC PC:Panama City FL	16.515	0.296	Nov 2011	3.700	Nov 2012	0.000		-		0.000	0.000	20.511	
T&E Functions	C/CPAF	Various:VAR	0.554	0.000		0.000		0.000		-		0.000	0.000	0.554	
<b>Subtotal</b>			25.611	1.596		4.200		0.000		0.000		0.000	0.000	31.407	
<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Management Services	C/CPAF	Various:VAR	6.520	0.205	Nov 2011	0.371	Nov 2012	0.000		-		0.000	0.000	7.096	
Travel	WR	NAVSEA:Washington, DC	0.375	0.035	Nov 2011	0.035	Nov 2012	0.000		-		0.000	0.000	0.445	
Acquisition Workforce Fund	Various	Various:Various	0.034	0.000		0.000		0.000		-		0.000	0.000	0.034	
<b>Subtotal</b>			6.929	0.240		0.406		0.000		0.000		0.000	0.000	7.575	
			<b>All Prior Years</b>	<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			111.619	3.936		13.028		0.000		0.000		0.000	2.579	131.162	
<b>Remarks</b>															

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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 0604373N: Airborne Mine Countermeasures (AMCM)									PROJECT 2427: OASIS											
OASIS		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
Acquistion Milestones																													
Milestone C						MS C ▲																							
System Development																													
Body Mounted Electrode (BME Design)		Body Mounted Electrode (BME Design)																											
Test & Evaluation																													
CT MH-60s Testing				CT																									
Airworthiness MH-60		AW MH-60																											
OA MH-60																													
DT Testing					DT				DT II																				
OPEVAL						OA																							
Production Milestones																													
						LRIP #1 ▲																							
2014DON - 0604373N - 2427																													

2014DON - 0604373N - 2427

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>	<b>PROJECT</b> 2427: <i>OASIS</i>	

**Schedule Details**

<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
<b>OASIS</b>				
Acquistion Milestones: Milestone C: Milestone C	1	2013	1	2013
System Development: Body Mounted Electrode (BME Design): Body Mounted Electrode (BME Design)	1	2012	4	2013
Test & Evaluation: CT MH-60s Testing: CT MH-60s Testing	3	2012	3	2012
Test & Evaluation: Airworthiness MH-60: AW MH-60	1	2012	2	2012
Test & Evaluation: DT Testing: DT	4	2012	1	2013
Test & Evaluation: DT Testing: DT PHASE II	4	2013	4	2013
Test & Evaluation: OPEVAL: OPEVAL	1	2013	1	2013
Production Milestones: LRIP Contract Award	2	2013	2	2013

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 2473: Airborne Mine Neutralization System			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2473: Airborne Mine Neutralization System	128.615	16.922	36.864	32.201	-	32.201	25.603	14.192	2.344	2.382	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Airborne Mine Neutralization System (AMNS) is a mine neutralization system, deployed from the MH-60S and MH-53E helicopters using an expendable mine neutralization device.												
The AMNS (Archerfish) will be deployed from the MH-60S helicopter with the capability to neutralize bottom, near surface and moored mines using an expendable mine neutralization device. These systems will be deployed from the Littoral Combat Ship and will provide organic airborne mine neutralization capability as part of Littoral Combat Ship (LCS) Mine Warfare Mission Module. This capability will be of critical importance in littoral zones, confined straits, choke points, near surface and the Amphibious Objective Area (AOA).												
AMNS (Seafox) will be deployed from the MH-53E helicopter; this effort converts a FY 2003 Rapid Deployment Capability (RDC) decision into a program of record. The development, testing and integration phases will be completed in FY13.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: AMNS: Support									2.740	3.171	5.988	
									Articles: 0	0	0	
FY 2012 Accomplishments: Developed logistics products, including training materials and interactive technical manual. Provided engineering support, including review for product development and integration. Developed Logistics products for untethered Launch and Handling System (LHS). Provided engineering support for untethered LHS.												
FY 2013 Plans: Develop logistics products, including training materials and interactive technical manual. Provide engineering support, including review for product development and integration.												
FY 2014 Plans:												

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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 0604373N: Airborne Mine Countermeasures (AMCM)	PROJECT 2473: Airborne Mine Neutralization System		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Provide engineering support, including review for product development and integration. Develop logistics product, including training materials and interactive technical manual.				
Title: AMNS: Test and Evaluation  Articles:  FY 2012 Accomplishments: Started MH-60s TECHEVAL (DT) Live Fire  FY 2013 Plans: Complete MH-60s TECHEVAL (DT) Live Fire. Conduct MH-60s DT/IT, start Operational Assessment (OA)  FY 2014 Plans: Complete MH-60S Operational Assessment and assist with IOT&E testing on LCS.		3.095 0	4.445 0	4.028 0
Title: AMNS: Management Services  Articles:  FY 2012 Accomplishments: Provided program management support and travel for AMNS  FY 2013 Plans: Provide program management support and travel for AMNS  FY 2014 Plans: Provide program management support and travel for AMNS		0.303 0	1.535 0	1.538 0
Title: AMNS: Product Development  Articles:  FY 2012 Accomplishments: Developed hardware and software improvements based on results of testing to date.		4.702 0	0.000	0.000
Title: AMNS NS: Test and Evaluation  Articles:  Description: AMNS NS: Test and Evaluation Near Surface Capability  FY 2014 Plans: Conduct Tank Test Two, Shipboard testing, 331B requalification and Environmental qualification test.		0.000	0.000	5.402 0
Title: AMNS NS (AMNS NEAR SURFACE): Hardware/Software Development		3.078	10.525	11.651

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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 0604373N: Airborne Mine Countermeasures (AMCM)		PROJECT 2473: Airborne Mine Neutralization System
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				
		FY 2012	FY 2013	FY 2014
Articles:		0	0	0
Description: Hardware and Software technology development and demonstration/Engineering Services.				
FY 2012 Accomplishments: AMNS NS Conducted PDR/CDR and hardware/software design for Near Surface				
FY 2013 Plans: AMNS NS Continue engineering and software development associated with Near Surface prototypes. Continue fabrication of Prototypes #1 and #2.				
FY 2014 Plans: AMNS NS Continue engineering and software development associated with Near Surface prototypes. Continue fabrication of Prototypes #1 and #2.				
Title: AMNS NS: ILS		0.676	0.676	0.876
Articles:		0	0	0
Description: AMNS NS Integrated Logistics Support (ILS)				
FY 2012 Accomplishments: Developed ILS training and technical maintenance updates for Near Surface.				
FY 2013 Plans: ILS Documentation updates for Near Surface.				
FY 2014 Plans: ILS training and documentation updates				
Title: AMNS Common Tow Cable		0.000	2.400	0.000
Articles:			0	
Description: OAMCM Common Tow Cable Development				
FY 2013 Plans: Develop an improved common tow cable for the OAMCM systems				
Title: AMNS NS: Program Management		2.328	3.012	2.718
Articles:		0	0	0



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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Navy										<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>				<b>PROJECT</b> 2473: <i>Airborne Mine Neutralization System</i>				
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>										<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
<b>Description:</b> AMNS NS Program Management  <b>FY 2012 Accomplishments:</b> TDA (Technical Direction Agent) Program Management, Financial Management, Contract Management  <b>FY 2013 Plans:</b> TDA Program Management, Financial Management, Contract Management  <b>FY 2014 Plans:</b> TDA Program Management, Financial Management, Contract Management												
<b>Title:</b> AMNS MH-53E  <div style="text-align: right;"><b>Articles:</b></div>										0.000	11.100 0	0.000
<b>FY 2013 Plans:</b> Develop and complete AMNS MH-53E Rapid Deployment Capability (RDC) into a program of record to include engineering, testing, and logistics.												
<b>Accomplishments/Planned Programs Subtotals</b>										16.922	36.864	32.201
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>	
• OPN 4248 : <i>Airborne MCM - AMNS (MH-60 &amp; MH-53)</i>	3.100	2.800	3.000		3.000	0.000	0.000	0.000	0.000	0.000	46.072	
• WPN 4225/1: <i>Airborne MCM - AMNS (MH-60 &amp; MH-53)</i>	12.203	10.607	15.058		15.058	19.087	15.188	14.888	16.000	16.000	142.438	
• OPN 1601: <i>LCS MCM Mission Modules</i>	0.000	2.800	3.000		3.000	6.000	6.102	6.206	6.318	39.393	69.819	
• OPN 1600: <i>LCS Mission Modules</i>	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	7.595	
<b>Remarks</b>												
<b>D. Acquisition Strategy</b>												
AMNS: The Navy awarded six (6) LRIP's to Raytheon in September 2010. Following successful completion of Developmental Testing (Inert) on MH-60S, the Navy awarded four (4) additional LRIP units to Raytheon in September 2011. Following successful completion of Development testing Live on MH-60s, the Navy will award two(2) additional units to Raytheon												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>	PROJECT 2473: <i>Airborne Mine Neutralization System</i>
<p>Following a successful OT on an MH-60S, FRP is planned for FY14. The Navy has awarded a sole source contract to BAE for neutralizer procurements.</p> <p><b>E. Performance Metrics</b></p> <p>Successfully complete Operational Test (OT) and receive Full Rate Production Decision approval.</p>		

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: Airborne Mine Countermeasures (AMCM)						<b>PROJECT</b> 2473: Airborne Mine Neutralization System			
<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Hardware/Software Development	Various	Various:Various	3.359	0.000		0.000		0.000		-		0.000	0.000	3.359	
Hardware/Software Development	WR	NSWC PC:Panama City, FL	2.102	1.345	Nov 2011	0.000		1.000	Nov 2013	-		1.000	0.000	4.447	
Hardware/Software Development	C/CPAF	Raytheon:Portsmouth, RI	15.982	2.463	Nov 2011	0.000		0.000		-		0.000	0.000	18.445	
Hardware/Software Development	SS/CPIF	Lockheed Martin:Syracuse, NY	3.331	0.000		0.000		0.000		-		0.000	0.000	3.331	
(Near Surface) Hardware/Software Development	WR	NUWC, NPT:Newport, RI	0.615	2.235	Nov 2011	5.910	Nov 2012	5.820	Nov 2013	-		5.820	0.000	14.580	
(Near Surface) Hardware/Software Development	C/CPIF	Raytheon:Portsmouth, RI	2.863	1.170	Nov 2011	4.615	Nov 2012	4.831	Nov 2013	-		4.831	0.000	13.479	
(MH-53) Hardware/Software Development	Various	Various:Various	0.000	0.000		11.100	Nov 2012	0.000		-		0.000	0.000	11.100	
(Tow Cable) Hardware Development	C/CPIF	TBD:TBD	0.000	0.000		2.400	Dec 2012	0.000		-		0.000	0.000	2.400	
<b>Subtotal</b>			28.252	7.213		24.025		11.651		0.000		11.651	0.000	71.141	
<b>Remarks</b> BOTH AMNS and AMNS NS															
<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
(AMNS) Engineering Services	WR	NSWC:Panama City, FL	23.849	0.750	Nov 2011	1.488	Nov 2012	2.092	Nov 2013	-		2.092	Continuing	Continuing	Continuing
(AMNS) Engineering Services	C/CPIF	Raytheon:Portsmouth, RI	12.283	1.795	Nov 2011	0.886	Nov 2012	2.886	Nov 2013	-		2.886	Continuing	Continuing	Continuing
(AMNS) ILS Functions	WR	NSWC PC:Panama City, FL	3.220	0.250	Nov 2011	0.496	Nov 2012	0.709	Nov 2013	-		0.709	Continuing	Continuing	Continuing

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>						<b>PROJECT</b> 2473: <i>Airborne Mine Neutralization System</i>			
<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
(AMNS) ILS Functions	C/CPIF	Raytheon:Portsmouth, RI	2.684	0.000		0.301	Nov 2012	0.301	Nov 2013	-		0.301	Continuing	Continuing	Continuing
(Near Surface) ILS Functions	WR	NUWC, NPT:Newport, RI	0.000	1.283	Nov 2011	0.676	Nov 2012	0.876	Nov 2013	-		0.876	Continuing	Continuing	Continuing
<b>Subtotal</b>			42.036	4.078		3.847		6.864		0.000		6.864			
<b>Remarks</b> BOTH AMNS and AMNS NS															
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Development Test & Evaluation	Various	Various:Various	0.300	0.000		0.000		0.000		-		0.000	0.000	0.300	
Development Test & Evaluation	SS/CPFF	Lockheed Martin:Syracuse, NY	1.254	0.000		0.000		0.000		-		0.000	0.000	1.254	
Operational Test & Evaluation	SS/CPFF	Lockheed Martin:Syracuse, NY	0.767	0.000		0.000		0.000		-		0.000	0.000	0.767	
Test Assets	C/CPIF	Raytheon:Portsmouth, RI	3.310	0.000		0.000		0.000		-		0.000	0.000	3.310	
(AMNS) Development Test & Evaluation	WR	NSWC, PC:Panama City, FL	29.933	0.000		2.424	Nov 2012	0.000		-		0.000	0.000	32.357	
(AMNS) Development Test & Evaluation	C/CPIF	Raytheon:Portsmouth, RI	8.969	1.000	Nov 2011	0.745	Nov 2012	0.000		-		0.000	0.000	10.714	
(AMNS) Operational Test & Evaluation	WR	COTF:Norfolk, VA	1.888	2.000	Nov 2011	1.276	Nov 2012	4.028	Nov 2013	-		4.028	Continuing	Continuing	Continuing
(Near Surface) Development Test and Evaluations	WR	NUWC, NPT:Newport, RI	0.000	0.000		0.000		4.635	Nov 2013	-		4.635	0.000	4.635	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>						<b>PROJECT</b> 2473: <i>Airborne Mine Neutralization System</i>			
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
(Near Surface) Development Test and Evaluations	C/CPIF	Raytheon:Portsmouth, RI	0.000	0.000		0.000		0.767	Nov 2013	-		0.767	0.000	0.767	
<b>Subtotal</b>			46.421	3.000		4.445		9.430		0.000		9.430			
<b>Remarks</b> BOTH AMNS and AMNS NS AMNS: Operational Assessment (OA) is covered in FY13 and FY14 above, However Operational Testing (OT) in FY14 is funded by LCS program office and is not captured above.															
<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
(AMNS) Program Management Support	C/CPFF	Various:Various	6.289	0.100	Nov 2011	0.318	Nov 2012	0.321	Nov 2013	-		0.321	0.158	7.186	
(AMNS) Program Management Support	C/CPIF	Raytheon:Portsmouth, RI	0.000	0.183	Apr 2012	0.654	Nov 2012	0.654	Nov 2013	-		0.654	0.199	1.690	
(AMNS) Program Management Support	Various	Field Activity:Various	0.000	1.280	Nov 2011	0.543	Nov 2012	0.543	Nov 2013	-		0.543	4.385	6.751	
(AMNS) Travel	Allot	NAVSEA:Washington, DC	0.000	0.048	Nov 2011	0.020	Nov 2012	0.020	Nov 2013	-		0.020	7.209	7.297	
(Near Surface) Management Support	Various	Various:Various	0.464	1.020	Nov 2011	3.012	Nov 2012	2.718	Nov 2013	-		2.718	0.040	7.254	
DAWDF	Sub Allot	NAVSEA:Washington, DC	5.153	0.000	Nov 2011	0.000	Nov 2012	0.000		-		0.000	0.000	5.153	
<b>Subtotal</b>			11.906	2.631		4.547		4.256		0.000		4.256	11.991	35.331	
<b>Remarks</b> BOTH AMNS and AMNS NS															

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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 0604373N: Airborne Mine Countermeasures (AMCM)					PROJECT 2473: Airborne Mine Neutralization System				
		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		128.615	16.922		36.864		32.201		0.000		32.201			
Remarks														

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PE 0604373N: *Airborne Mine Countermeasures (AMCM)*  
Navy

R-1 Line #103

**APPROPRIATION/BUDGET ACTIVITY**

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

## R-1 ITEM NOMENCLATURE

PE 0604373N: *Airborne Mine Countermeasures (AMCM)*

PROJECT	
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2473: *Airborne Mine Neutralization System*[illegible]

2014PB - 0604373N - 2473

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

DATE: April 2013

## APPROPRIATION/BUDGET ACTIVITY

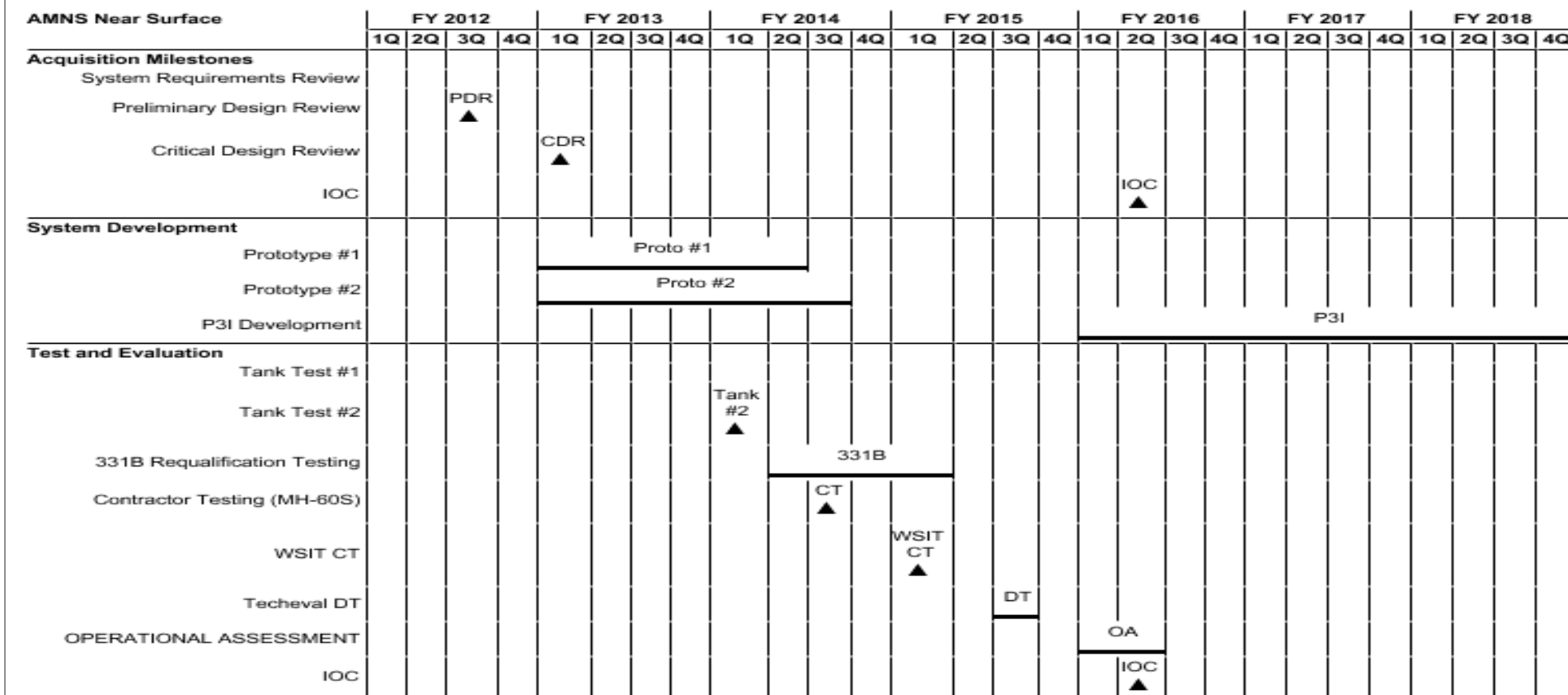
1319: Research, Development, Test & Evaluation, Navy  
BA 5: System Development & Demonstration (SDD)

## R-1 ITEM NOMENCLATURE

PE 0604373N: Airborne Mine Countermeasures (AMCM)

## PROJECT

2473: Airborne Mine Neutralization System



2014PB - 0604373N - 2473



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>	<b>PROJECT</b> 2473: <i>Airborne Mine Neutralization System</i>	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>AMNS</b>				
Acquisition Milestones: AMNS Full Rate Production Decision: AMNS FRPD	1	2015	1	2015
Acquisition Milestones: Initial Operational Capability: Initial Operational Capability	1	2015	1	2015
System Development: AMNS System Development: AMNS System Development	1	2012	2	2013
Test & Evaluation Milestones: AMNS Development Testing (MH-60s): AMNS Development Testing (MH-60s)	2	2012	2	2013
Test & Evaluation Milestones: AMNS Development Testing (MH-60s): DT/IT	2	2013	3	2013
Test & Evaluation Milestones: AMNS Operational Testing (MH-60s) Start: Operational Assessment	4	2013	1	2014
Test & Evaluation Milestones: AMNS Operational Testing (MH-60s) Start: IOT&E	3	2014	4	2014
Production Milestones: AMNS LRIP (FY12)	2	2013	2	2013
Production Milestones: AMNS LRIP (FY13)	2	2013	2	2013
Production Milestones: AMNS LRIP (FY14)	3	2014	3	2014
Production Milestones: AMNS FRP (FY15)	3	2015	3	2015
Production Milestones: AMNS FRP (FY16)	3	2016	3	2016
Production Milestones: AMNS FRP (FY17)	3	2017	3	2017
Production Milestones: AMNS FRP (FY18)	3	2018	3	2018
Production Milestones: Production Deliveries	1	2012	4	2018
<b>AMNS Near Surface</b>				
Acquisition Milestones: Preliminary Design Review: Preliminary Design Review	3	2012	3	2012
Acquisition Milestones: Critical Design Review: Critical Design Review	1	2013	1	2013
Acquisition Milestones: IOC: IOC	2	2016	2	2016
System Development: Prototype #1: Prototype #1	1	2013	2	2014

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Exhibit R-4A, RDT&E Schedule Details: 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 0604373N: Airborne Mine Countermeasures (AMCM)		PROJECT 2473: Airborne Mine Neutralization System
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
System Development: Prototype #2:		1	2013	3 2014
System Development: P3I Development: P3I		1	2016	4 2018
Test and Evaluation: Tank Test #2:		1	2014	1 2014
Test and Evaluation: 331B Requalification Testing: 331B Requalification Testing		2	2014	1 2015
Test and Evaluation: Contractor Testing (MH-60S): Contractor Testing (MH-60S)		3	2014	3 2014
Test and Evaluation: WSIT CT:		1	2015	1 2015
Test and Evaluation: Techeval DT:		3	2015	3 2015
Test and Evaluation: OPERATIONAL ASSESSMENT: OA		1	2016	2 2016
Test and Evaluation: IOC:		2	2016	2 2016

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 4026: Strat Into Medal, Tactics & Trng Organic Force										
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost							
4026: Strat Into Medal, Tactics & Trng Organic Force	15.736	1.730	3.573	5.230	-	5.230	7.923	7.386	9.411	9.562	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 C4I, Tactics, Mission Planning (CTMP), and Post-Mission Analysis (PMA) program began in FY97 as an initiative to provide near-real-time data linking of mine sensor data between the MH-53E aircraft and ship- and/or shore-based command centers. Additionally, the program began to develop MEDAL modules for each "Next Generation" system; and plans to develop "Next Generation" tactics; provide threat data and system requirements and capabilities to the MEDAL software development effort; and develop Net-Centric Sensor Analysis for Mine Warfare (NSAM) as a common post-mission sensor analysis tool for "Next Generation" systems.																			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014							
Title: Hardware/Software Development  Articles:  FY 2012 Accomplishments: Coded system-specific OPMA Modules, including Organic Airborne Mine Countermeasures (OAMCM)systems mission analysis  FY 2013 Plans: Code system-specific OPMA Modules NSAM (Net-centric Sensor Analysis for Mine Warfare) Open Architecture development  FY 2014 Plans: NSAM Open Architecture development										0.825 0	2.074 0	3.465 0							
Title: Engineering Services/ILS:  Articles:  FY 2012 Accomplishments: ILS conducted for OPMA  FY 2013 Plans: ILS planning for OPMA NSAM Engineering support										0.800 0	1.278 0	1.522 0							

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Navy		<b>DATE:</b> April 2013	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>	<b>PROJECT</b> 4026: <i>Strat Into Medal, Tactics &amp; Trng Organic Force</i>	
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2012</b>	<b>FY 2013</b>
Engineering Support for AQS-20A P3I			
<b>FY 2014 Plans:</b> Update ALMDS & AMNS TACMEMOs NSAM Engineering Support			
<b>Title:</b> Management Support			
<b>Articles:</b>		0.105 0	0.221 0
<b>FY 2012 Accomplishments:</b> Provided CTMP management support			
<b>FY 2013 Plans:</b> CTMP management support NSAM Management Support			
<b>FY 2014 Plans:</b> CTMP management support			
<b>Accomplishments/Planned Programs Subtotals</b>		1.730	3.573
<b>C. Other Program Funding Summary (\$ in Millions)</b>			
N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b>			
<p>The Organic Post-Mission Analysis (OPMA) capability for the OAMCM systems will be developed by NSWC PC, Panama City, FL. The OPMA project will leverage existing system-specific developmental PMA software, maximize commonality, and host the software on a common shipboard computer. OPN funding will be used to procure ruggedized portable OPMA computers for ship of opportunity deployments, land basing, and training. NSWC-PC will contract for this work on a time and materials basis. The tactics development, tactics training, and tactics algorithms/database efforts are performed by NSWC-PC. These efforts will provide reach back support as the OAMCM systems begin to be fielded; will develop modifications to environmental databases necessary to support OAMCM mission planning; will update the MIW Tactics Continuum to address OAMCM; and will update the gear and mine database for threats addressed by the OAMCM systems.</p> <p>NSAM will merge capabilities of OPMA and NAVO's Environmental PMA (EPMA) capabilities into an Open Architecture framework. Incremental Build One will Utilize government teams to expedite fielding significant contact management and data fusion techniques.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>	<b>PROJECT</b> 4026: <i>Strat Into Medal, Tactics &amp; Trng Organic Force</i>

## E. Performance Metrics

## Successfully integrate CTMP into the fleet.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: Airborne Mine Countermeasures (AMCM)						<b>PROJECT</b> 4026: Strat Into Medal, Tactics & Trng Organic Force			
<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Hardware Software Development	WR	NSWC PC:Panama City FL	8.973	0.825	Nov 2011	1.824	Nov 2012	3.115	Nov 2013	-		3.115	0.000	14.737	
Hardware/Software Development	WR	NAVO Bay:St. Louis, MO	0.000	0.000		0.250	Nov 2012	0.350	Nov 2013	-		0.350	0.000	0.600	
<b>Subtotal</b>			8.973	0.825		2.074		3.465		0.000		3.465	0.000	15.337	
<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Engineering Services	WR	SSC-PAC:Various	0.000	0.040	Nov 2011	0.040	Nov 2012	0.040	Nov 2013	-		0.040	Continuing	Continuing	Continuing
Engineering Services	WR	NSWC PC:Panama City FL	4.958	0.545	Nov 2011	0.938	Nov 2012	1.170	Nov 2013	-		1.170	Continuing	Continuing	Continuing
Engineering Services	WR	NAVO Bay:St. Louis, MO	0.000	0.125	Nov 2011	0.100	Nov 2012	0.112	Nov 2013	-		0.112	0.000	0.337	
ILS	WR	NSWC PC:Panama City FL	0.910	0.090	Nov 2011	0.200	Nov 2012	0.200	Nov 2013	-		0.200	Continuing	Continuing	Continuing
<b>Subtotal</b>			5.868	0.800		1.278		1.522		0.000		1.522			
<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Management Support	WR	NSWC PC:Panama City FL	0.882	0.105	Dec 2011	0.221	Mar 2013	0.243	Nov 2013	-		0.243	Continuing	Continuing	Continuing
Acquisition Workforce Fund	Various	Various:Various	0.013	0.000		0.000	Nov 2012	0.000		-		0.000	0.000	0.013	
<b>Subtotal</b>			0.895	0.105		0.221		0.243		0.000		0.243			

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 4026: Strat Into Medal, Tactics & Trng Organic Force				
	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	15.736	1.730		3.573		5.230		0.000		5.230			

Remarks

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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 0604373N: Airborne Mine Countermeasures (AMCM)

## PROJECT

4026: Strat Into Medal, Tactics & Trng Organic Force

Proj 4026		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																																																	
System Development																																																	
	MEDAL					OPMA: Ongoing Development for P3I; Software																																											
	OPMA	OPMA: OASIS S/W								OPMA: Tech Refresh																																							
																										OPMA: IA Recertification																							
	NSAM	NSAM: NSAM EDM s/w				NSAM: NSAM S/W Development																																											
																										NSAM: NSAM Pubs																							
	Tactics	Produce Theory Modifications in Support of Contact Pruning																																															
		Develop Training Material and Plans for OMCM																																															
			Develop Mitigation Plan for AMNS Tactics (Depth Localization Errors)																																														
			Develop Assessment Tool																																														
						Develop NTRP 3-15.2.2																																											
						Collect At-Sea data for Pruning Validation																																											
																										TACMEMO ALMDS																							
																										TACMEMO AMNS																							
																														Reachback OAMCM support																			
Test & Evaluation																																																	
Production Milestones																																																	
Deliveries																																																	



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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 0604373N: Airborne Mine Countermeasures (AMCM)	PROJECT 4026: Strat Into Medal, Tactics & Trng Organic Force
2014 OSD - 0604373N - 4026		

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>	<b>PROJECT</b> 4026: <i>Strat Into Medal, Tactics &amp; Trng Organic Force</i>	

## Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 4026</b>				
System Development: OPMA: OPMA: Ongoing Development for Sensor P3I; Software	1	2012	4	2016
System Development: OPMA: OPMA: OASIS S/W	1	2012	4	2012
System Development: OPMA: OPMA: Tech Refresh to address Window XP End of Life	1	2014	4	2015
System Development: OPMA: OPMA: IA Recertification	4	2014	3	2015
System Development: NSAM: NSAM: NSAM EDM s/w	1	2012	1	2012
System Development: NSAM: NSAM: NSAM S/W Development	1	2013	4	2018
System Development: NSAM: NSAM: NSAM Pubs	2	2014	4	2014
System Development: Tactics: Produce Theory Modifications in Support of Contact Pruning	1	2012	4	2012
System Development: Tactics: Develop Training Material and Plans for OMCM	1	2012	4	2013
System Development: Tactics: Develop Mitigation Plan for AMNS Tactics (Depth Localization Errors)	2	2012	4	2012
System Development: Tactics: Develop Assessment Tool	2	2012	3	2013
System Development: Tactics: Develop NTRP 3-15.2.2	1	2013	4	2018
System Development: Tactics: Collect At-Sea data for Pruning Validation	1	2013	2	2014
System Development: Tactics: TACMEMO ALMDS	2	2014	3	2015
System Development: Tactics: TACMEMO AMNS	3	2014	1	2016
System Development: Tactics: Reachback OAMCM support	2	2014	4	2018

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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 0604373N: Airborne Mine Countermeasures (AMCM)				PROJECT 9179: Surf Navy Integ Undersea Tactical Tech			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
9179: Surf Navy Integ Undersea Tactical Tech	2.530	0.881	0.897	0.905	-	0.905	0.926	0.935	0.952	0.968	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												
Surface Navy Integrated Undersea Tactical Technology (SNIUTT) will be used to develop an AN/SQQ-32, AN/AQS-14, AN/AQS-24 and AN/AQS-20A sensor training modules and future Organic Airborne Mine Countermeasures (OAMCM) Sensor Training Modules.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Hardware and Software Development  Articles:									0.754	0.770	0.773	
									0	0	0	
FY 2012 Accomplishments: Developed AN/AQQ-32, AN/AQS-24, AN/AQS-20A sonar training modules. Also developed Scenario Generator software system for REMUS for mine like contact recognition training and ALMDS training modules.												
FY 2013 Plans: Development of an AN/AQQ-32, AN/AQS-24, AN/AQS-20A sonar training module. Also development of a Scenario Generator software system for REMUS for mine like contact recognition training and ALMDS training modules.												
FY 2014 Plans: Development of an AN/AQQ-32, AN/AQS-24, AN/AQS-20A sonar training module. Also development of a Scenario Generator software system for REMUS for mine like contact recognition training and ALMDS training modules.												
Title: Engineering and ILS Services  Articles:									0.127	0.127	0.132	
									0	0	0	
FY 2012 Accomplishments: Provided SNIUTT In-Service Engineering Agent (ISEA) and development support.												
FY 2013 Plans: Provide SNIUTT In-Service Engineering Agent (ISEA) and development support.												
FY 2014 Plans:												

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Navy								<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: <i>Airborne Mine Countermeasures (AMCM)</i>				<b>PROJECT</b> 9179: <i>Surf Navy Integ Undersea Tactical Tech</i>			
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>								<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	
Provide SNIUTT In-Service Engineering Agent (ISEA) and development support.											
<b>Accomplishments/Planned Programs Subtotals</b>								0.881	0.897	0.905	
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• OPN 4248: <i>Airborne MCM - SNIUTT</i>	0.300	0.300	0.306		0.306	0.312	0.312	0.312	0.350	0.000	2.672
<b>Remarks</b>											
<b>D. Acquisition Strategy</b>											
Surface Navy Integrated Undersea Tactical Training (SNIUTT) has been used to develop an AN/SQQ-32, AN/AQS-14, AN/AQS-24 and AN/AQS-20A sensor training modules. Funds will continue to support training for these four sonar systems, as well as training for the REMUS sonar systems and other OAMCM systems in the same format as previous training. The SNIUTT sensor training modules will be developed by NSWC PC, Panama City, FL, in association with Advanced Acoustic Concepts (AAC), Ronkonkoma, NY. NSWC PC will contract with AAC for this work under a Cost Plus Fixed-Fee (CPFF) scenario. Funds are being provided for development and delivery of refresher scenario based contact recognition training, and the update and modification of contact recognition training (interactive web based training and proficiency focused stand-alone training) in support of the SNIUTT program.											
<b>E. Performance Metrics</b>											
Successfully integrate SNIUTT into the school house training facility.											

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>													<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)							<b>R-1 ITEM NOMENCLATURE</b> PE 0604373N: Airborne Mine Countermeasures (AMCM)					<b>PROJECT</b> 9179: Surf Navy Integ Undersea Tactical Tech			

<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Hardware Software Development	WR	NSWC PC:Panama City FI	2.152	0.764	Nov 2011	0.770	Nov 2012	0.773	Dec 2013	-		0.773	Continuing	Continuing	Continuing
<b>Subtotal</b>			2.152	0.764		0.770		0.773		0.000		0.773			

<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
ISEA	WR	NSWC, PC:Panama City FL	0.375	0.117	Nov 2011	0.127	Nov 2012	0.132	Nov 2013	-		0.132	0.000	0.751	
<b>Subtotal</b>			0.375	0.117		0.127		0.132		0.000		0.132	0.000	0.751	

<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
DAWDF	Various	Various:Various	0.003	0.000		0.000		0.000		-		0.000	0.000	0.003	
<b>Subtotal</b>			0.003	0.000		0.000		0.000		0.000		0.000	0.000	0.003	

			<b>All Prior Years</b>	<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			2.530	0.881		0.897		0.905		0.000		0.905			

<b>Remarks</b>