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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	679.370	60.423	109.354	38.941	-	38.941	68.797	68.173	63.386	33.491	Continuing	Continuing
0529: ABN Mine Hunt System	255.428	15.453	45.177	13.319	-	13.319	9.571	9.888	4.140	4.285	Continuing	Continuing
2047: ALMDS	143.256	11.693	29.341	10.140	-	10.140	7.730	6.951	3.781	6.078	Continuing	Continuing
2427: OASIS	115.555	0.001	-	-	-	-	-	-	-	-	-	115.556
2473: Airborne Mine Neutralization System	144.254	30.271	28.701	7.507	-	7.507	43.434	41.181	45.112	12.544	Continuing	Continuing
4026: Strat Into Medal, Tactics & Trng Organic Force	17.466	2.357	5.230	7.094	-	7.094	7.169	9.239	9.420	9.630	Continuing	Continuing
9179: Surf Navy Integ Undersea Tactical Tech	3.411	0.648	0.905	0.881	-	0.881	0.893	0.914	0.933	0.954	Continuing	Continuing

The FY 2015 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 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. Capability improvements include 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 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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Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)
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The Airborne Mine Countermeasures (AMCM) programs 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, and the Amphibious Objective Area (AOA).

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	73.246	117.854	87.102	-	87.102
Current President's Budget	60.423	109.354	38.941	-	38.941
Total Adjustments	-12.823	-8.500	-48.161	-	-48.161
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-8.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	7.500	-			
• SBIR/STTR Transfer	-1.785	-			
• Program Adjustments	-	-	-39.273	-	-39.273
• Rate/Misc Adjustments	-	-	-8.888	-	-8.888
• Congressional Recision Adjustments	-5.000	-	-	-	-
• Congressional General Reductions Adjustments	-7.288	-	-	-	-
• Congressional Directed Reductions Adjustments	-6.250	-	-	-	-

Change Summary Explanation

Program Adjustments: FY13 -\$14,327K in Total Adjustments: Sequestration (OASIS) -\$7,288K, Congressional (OASIS) -\$6,250K, SBIR -\$1,785K, and \$7,500K AN/AQS-20 Reprogramming: FY14 -\$8,500K in total adjustments: AN/AQS-24 -\$5,000K, AMNS -\$3,500K: FY15 -\$48,161K in total adjustments: AN/AQS-24C -\$6,500K, ALMDS -\$14,550K, AMNS N/S -\$18,223K and -\$8,888 Misc Adjustments (Sequestration).

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 0529 / ABN Mine Hunt System			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0529: ABN Mine Hunt System	255.428	15.453	45.177	13.319	-	13.319	9.571	9.888	4.140	4.285	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 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 integrated for use with multiple platforms 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 Mine Countermeasures (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, and achieving in-stride detect-to-engage capability.

The AN/AQS-20A is a mine hunting and identification system with acoustic and optic sensors housed in an underwater towed body. The acoustic sensors are designed for the detection, classification and localization of bottom, close-tethered, and volume targets in a single pass. The Electro-Optic Identification Device (EOID) replaces the Volume Search Sonar (VSS) for identification of bottom targets. The system will be deployed from the Littoral Combat Ship (LCS) as part of the MCM Mission Package (MP). The AN/WLD-1(V)2 Remote Minehunting System (RMS) Remote Multi-Mission Vehicle (RMMV) tows the AN/AQS-20A.

The AN/AQS-20A Block 1 is undergoing a Pre-Planned Product Improvement (P3I) program to upgrade the Forward Looking Sonar (FLS) and Side-Looking Sonars(SLS) to improve Probability of Classifying a Mine-like object as a Mine, False Classification Rates, and Depth Localization performance to meet Block 2 performance. The Forward Looking Sonar will be replaced with a new High Frequency Wideband based design. The SLS will be replaced with a new Multi-function SLS with Synthetic Aperture Sonar (SAS) capability, as well as, improved signal processing and Signal to Noise Ratio. The Block 1 P3I program began in FY12 and will complete in FY15. All Block 1 units will be upgraded to meet Block 2 capability. Award and management of the competitive contract for Low Rate Initial Production (LRIP)/Full Rate Production (FRP) units begins in FY14 and continues through FY18. The Block 2 P3I program begins in FY16 and continues beyond FY19.

The AN/AQS-20A Block 2 will support LCS Mine Countermeasures Mission Package (MCM MP) Developmental Testing (DT) and Initial Operational Test and Evaluation (IOT&E) in FY15. Materiel Reliability and obsolescence Engineering Change Proposals (ECPs) efforts begin in FY14 and continues through FY15 supporting AN/AQS-20A Block 2 and LCS MCM MP FY15 Developmental Testing (DT) and Initial Operational Test and Evaluation (IOT&E).

The AN/AQS-24 Mine Hunting and Identification system is comprised of acoustic sensors housed in an underwater towed body. The AN/AQS-24 Volume Search upgrade will be developed, tested, and integrated for use with multiple platforms including the MH-53E Helicopter. This capability is in support of an Urgent Operational Need (UON) and will improve the rapid detection and locaization of volume sea mines. RDT&E funding ends after in FY14.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 0529 / ABN Mine Hunt System		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Title: AN/AQS-20A Product Development:		14.178	19.805	6.799
Articles:		-	-	-
FY 2013 Accomplishments: - Completed fabrication and subsystem testing of one Forward Looking Sonar (FLS). - Initiated fabrication of three sets of improved Side Looking Sonars (SLS). - Started hardware/software integration.				
FY 2014 Plans: - Completed fabrication and subsystem testing of two FLS. - Initiated Electro-Optics Identification (EOID) and Volume Search Sonar (VSS) and FLS Power amplifier Materiel Reliability Improvement Development of Engineering Change Proposals (ECPs). - Complete fabrication and subsystem testing of improved SLS. - Integrate improved sensors into Engineering Development Models (EDMs). - Initiate and complete RMMV version 6.0 integration with three Block 2 EDMs. - Deliver three Block 2 EDMs for Developmental Testing. - Procure spares to support DT and IOT&E.				
FY 2015 Plans: - Develop replacement Wave Form Generator to resolve obsolescence and support Synthetic Aperture Sonar (SAS) capability at maximum RMS mine hunting search speeds. - Complete Materiel Reliability Improvement ECPs and incorporate into systems for IOT&E. - Upgrade Block 1 maintenance trainers to Block 2 configuration.				
Title: AN/AQS-20A Support:		0.344	2.078	2.100
Articles:		-	-	-
Description: RDT&E Articles Quantity				
FY 2013 Accomplishments: - Provided ongoing technical engineering support to Block 1 and Block 2 development efforts. - Operational Requirements Document (ORD) updated and approved. - Updated logistics products and the Block 1 Interactive Electronic Technical Manual (IETM).				
FY 2014 Plans: - Initiated updates to Block 2 logistics products. - Provide ongoing technical engineering support to Block 1 and Block 2.				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2013	FY 2014	FY 2015
Conduct repairs to Block 2 EDMs following DT activities. FY 2015 Plans: - Provide ongoing technical engineering support to Block 1 and Block 2. - Complete updates to Block 2 logistics products based on the results of DT. - Conduct repairs to Block 2 EDMs following TECHEVAL activities.						
Title: AN/AQS-20A Test and Evaluation Articles: Description: RDT&E Articles Quantity FY 2013 Accomplishments: - AN/AQS-20A Block 1 successfully supported the 855 Total System Operating Hours over 47 missions during the RMS RGP v4.2 Contractor Validation testing. - Supported Littoral Combat Ship (LCS) MCM Developmental Testing (DT) events. FY 2014 Plans: - AN/AQS-20A Block 1 successfully supported 385 Total System Operating Hours over 18 missions during the RMS RGP v4.2 Developmental Test (DT-IIG). - Update RMS Test and Evaluation Master Plan (TEMP) with AN/AQS-20A Block 2 requirements. - Participate in LCS MCM Mission Module DT events. - Conduct integration and validation testing of the 3 Block 2 EDMs from Research Vessel Athena and the RMMV. - Participate in RMS (RMMV v6.0 and AN/AQS-20A Block 2) Contractor and Developmental/Integrated Testing. FY 2015 Plans: - Conduct Technical Evaluation (TECHEVAL) and IOT&E of AN/AQS-20A Block 2. - Support LCS MCM MP TECHEVAL and IOT&E.				0.150 -	3.606 -	3.100 -
Title: AN/AQS-20A Management Services Articles: Description: RDT&E Articles Quantity FY 2013 Accomplishments: - Provided planning and management for the AN/AQS-20A program. - Provided Program Office travel support. FY 2014 Plans:				0.781 -	1.288 -	1.320 -

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 0529 / ABN Mine Hunt System		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
- Updated Acquisition Program Baseline (APB). - Continue to provide planning and management for the AN/AQS-20A program. - Award and manage the competitive contract for Low Rate Initial Production (LRIP) /Full Rate Production (FRP) Block 2 units. - Provide Program Office travel support. FY 2015 Plans: - Continue to provide planning and management for the AN/AQS-20A program to include the competitive contract. - Update acquisition documentation such as the Acquisition Strategy and Plan in support FRP Decision Review. - Provide Program Office travel support.				
Title: AN AQS-24 Product Development Articles: FY 2013 Accomplishments: N/A FY 2014 Plans: Upgrade the fielded AN/AQS-24 systems by integrating a volume search capability (AN/AQS-24C). FY 2015 Plans: N/A		- -	11.509 -	- -
Title: AN AQS-24 Test and Evaluation Articles: FY 2013 Accomplishments: N/A FY 2014 Plans: Test the modified AN/AQS-24 system which adds volume search capability on the MH-53E Helicopter. FY 2015 Plans: N/A		- -	5.090 -	- -
Title: AN AQS-24 Program Management Articles: FY 2013 Accomplishments: N/A FY 2014 Plans:		- -	0.250 -	- -

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Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)			Project (Number/Name) 0529 / ABN Mine Hunt System				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
Provide management support and contract oversight for the development of the AN/AQS-24C Volume Search Capability							FY 2013	FY 2014	FY 2015		
FY 2015 Plans: N/A											
Title: AN AQS-24 Support							-	1.551	-		
Articles:							-	-	-		
FY 2013 Accomplishments: N/A											
FY 2014 Plans: Provide Engineering and Logistical support for the initial fielding of the AN/AQS-24 Volume Search Capability											
FY 2015 Plans: N/A											
Accomplishments/Planned Programs Subtotals							15.453	45.177	13.319		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPN 4248: Airborne Mine Countermeasure (AN/AQS-20A/24)	-	42.500	19.524	-	19.524	21.385	7.590	-	-	Continuing	Continuing
• OPN 1601: LCS MCM Mission Modules (AN/AQS-20A)	15.800	24.294	-	-	-	46.767	-	46.551	-	Continuing	Continuing
Remarks BLI 1601 - Funding for AN/AQS-20A is part of the LCS MCM MP OPN budget.											
D. Acquisition Strategy AN/AQS-20A LRIP procurement continues with Block 2 competitive contract award in FY14. FRPDR will occur in second quarter FY16. Procure P3I kits to upgrade all Block 1 units to meet Block 2 capability. AN/AQS-24C contract award will occur 3Q FY14 and procure volume search upgrade kits.											
E. Performance Metrics AN/AQS-20A award Block 2 competitive award in FY14.											

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 0529 / ABN Mine Hunt System
AN/AQS-20A - Successfully complete Block 2 IOT&E in FY15.		

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

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PE 0604373N / Airborne Mine Countermeasures (AMCM)

0529 / ABN Mine Hunt System

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 0529 / ABN Mine Hunt System
2015PB - 0604373N - 0529		

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

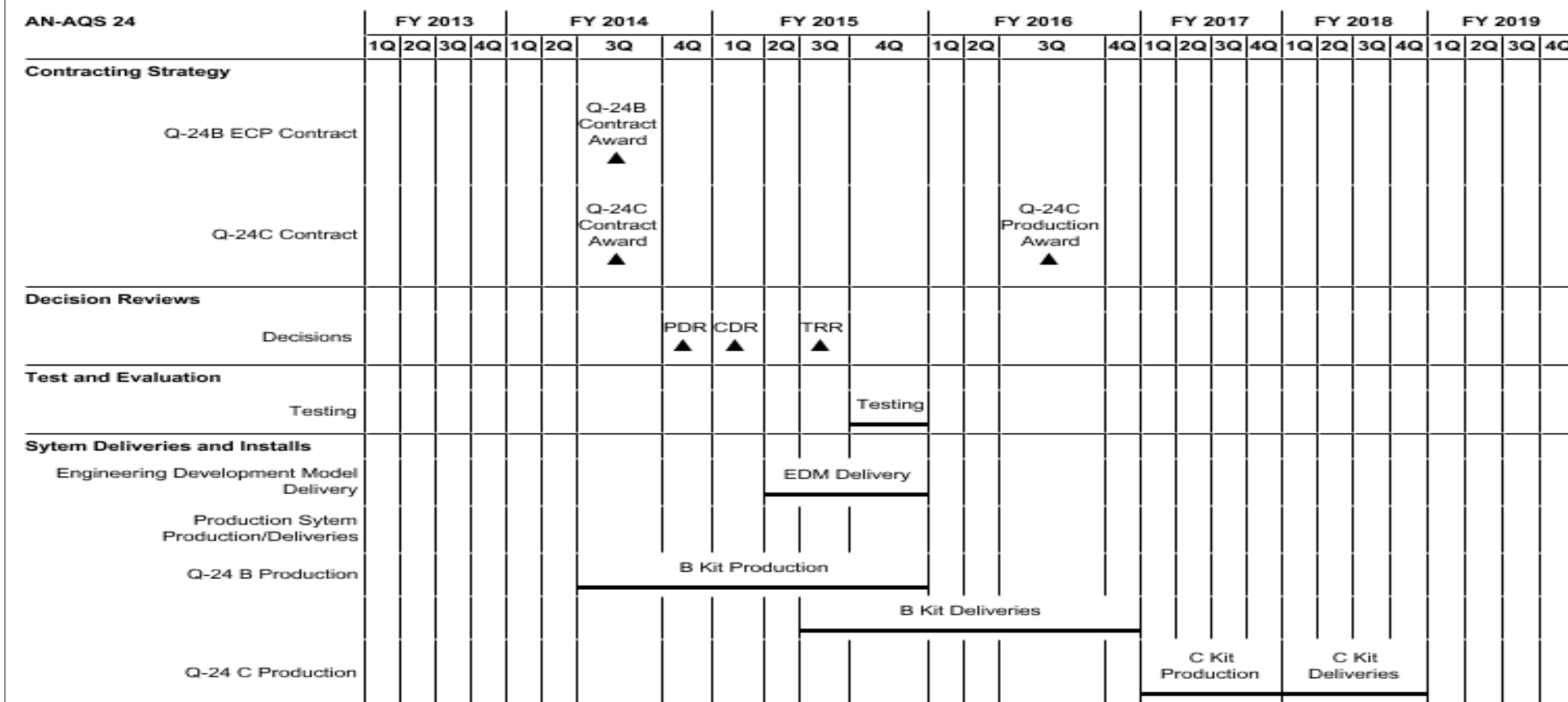
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R-1 Program Element (Number/Name)

PE 0604373N / Airborne Mine
Countermeasures (AMCM)

Project (Number/Name)

0529 / ABN Mine Hunt System



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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 2047 / ALMDS			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2047: ALMDS	143.256	11.693	29.341	10.140	-	10.140	7.730	6.951	3.781	6.078	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 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 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 Pre-planned Product Improvement (P3I) began in 2013.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Title: Hardware and Software technology development and demonstration/Engineering Services: Articles: Description: Engineering, oversight, and support of engineering efforts to meet baseline performance and P3I performance. FY 2013 Accomplishments: System engineering, POD repairs, NGC Post Delivery Technical Support (PDTs) and start of P3I development FY 2014 Plans: Continue P3I development and implementation (False Alarm, VSW Algorithm). Implement software Build 5085 in ALMDS and integrate with the MH-60S Common Console. FY 2015 Plans: Continue P3I development and implementation (False Alarm, VSW Algorithm)										7.926	16.400	4.344
										-	-	-
Title: Integrated Logistics Support: Articles: FY 2013 Accomplishments: Provided Logistics support to LRIP Units, shipping container support, depot analysis to LRIP units and support equipment/peculiar support equipment. FY 2014 Plans:										1.642	1.948	1.588
										-	-	-

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Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 2047 / ALMDS			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2013	FY 2014	FY 2015	
Provide Logistics support, depot analysis to LRIP units and support equipment/peculiar support equipment. Support training for AMCM Phase B testing.											
FY 2015 Plans: Provide Logistics support, depot analysis to LRIP units and support equipment/peculiar support equipment. Training support prior to IOT&E.											
Title: Testing and Evaluation:								1.018	9.952	3.250	
Articles:								-	-	-	
FY 2013 Accomplishments: Finished planning for Data Collection Flight Test											
FY 2014 Plans: Planning and conduct P3I flight test, Environmental Qualification Testing (EQT) and OA Phase B MH-60 IOT&E.											
FY 2015 Plans: Support IOT&E Test on LCS.											
Title: Project Management:								1.107	1.041	0.958	
Articles:								-	-	-	
Description: Completion of OA											
FY 2013 Accomplishments: TDA Program Management, Financial Management and Contractor support.											
FY 2014 Plans: TDA Program Management, Financial Management and Contractor support.											
FY 2015 Plans: TDA Program Management, Financial Management and Contractor support.											
Accomplishments/Planned Programs Subtotals								11.693	29.341	10.140	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPN 4248: Airborne MCM	32.030	10.237	-	-	-	2.300	2.300	2.300	-	-	113.319

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Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 2047 / ALMDS			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN 1601: LCS MCM Mission Modules	-	7.951	16.173	-	16.173	16.448	16.728	17.062	-	105.764	180.126
Remarks											
D. Acquisition Strategy											
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. The first LRIP lot was awarded as a new sole-source contract to the SD&D contractor in FY05. FRP will be based on Increment 1 performance. In FY14 a new competitive awarded FFP production contract is planned. This is a Fixed-Price Incentive (FPI) contract with cost and schedule incentives.											
E. Performance Metrics											
Conduct Operational Assessment (OA) Phase A in FY12. Conduct OA Phase B in FY14. Conduct Equipment Qualifications Test in FY14. Conduct MCM IOT&E in FY15.											

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

R-1 Line #109

R-1 Program Element (Number/Name)	Program Element Description	Program Element Status	Program Element Comments

PE 0604373N / Airborne Mine Countermeasures (AMCM)

2047 / ALMDS

ALMDS	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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																												
Full Rate Production Decision															FRPD ▲													
Initial Operating Capability															IOC ▲												IOC P3I ▲	
System Development																												
Increment I Development																												
Test & Evaluation Milestones																												
DT Development Testing							P3I Flight Test		OA Phase B									P3I Lab Ground Test			P3I DT/IT (FOT&E)							
OT OPERATIONAL TESTING (OPEVAL)											LCS IOT&E																	
Production Milestones							LRIP #5 ▲				LRIP #6 ▲				FRP #1 ▲					FRP #2 ▲						FRP #3 ▲		FRP #4 ▲
Production Deliveries							LRIP #4							LRIP #5					LRIP #6							FRP #1		FRP #2

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Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 2427 / OASIS																																																																			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost																																																																
2427: OASIS	115.555	0.001	-	-	-	-	-	-	-	-	-	115.556																																																																
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-																																																																		
# The FY 2015 OCO Request will be submitted at a later date. A. Mission Description and Budget Item Justification The Organic Airborne and Surface Influence Sweep (OASIS) programed was cancelled by ASN/RDA 29 Jan 2013. B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="center">FY 2013</td> <td align="center">FY 2014</td> <td align="center">FY 2015</td> </tr> <tr> <td>Title: Program Management</td> <td align="center">0.001</td> <td align="center">-</td> <td align="center">-</td> </tr> <tr> <td align="right">Articles:</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> <tr> <td colspan="4">FY 2013 Accomplishments: Management</td> </tr> <tr> <td colspan="4">FY 2014 Plans: N/A</td> </tr> <tr> <td colspan="4">FY 2015 Plans: N/A</td> </tr> <tr> <td align="right" colspan="2">Accomplishments/Planned Programs Subtotals</td> <td align="center">0.001</td> <td align="center">-</td> </tr> </table> C. Other Program Funding Summary (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th align="left">Line Item</th> <th align="center">FY 2013</th> <th align="center">FY 2014</th> <th align="center">FY 2015 Base</th> <th align="center">FY 2015 OCO</th> <th align="center">FY 2015 Total</th> <th align="center">FY 2016</th> <th align="center">FY 2017</th> <th align="center">FY 2018</th> <th align="center">FY 2019</th> <th align="center">Cost To Complete</th> <th align="center">Total Cost</th> </tr> <tr> <td>• OPN 4248: Airborne MCM - OASIS</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> <tr> <td>• OPN 1601: LCS MCM Mission Modules</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> </table> Remarks D. Acquisition Strategy The Organic Airborne and Surface Influence Sweep (OASIS) programed was cancelled by ASN/RDA 29 Jan 2013.														FY 2013	FY 2014	FY 2015	Title: Program Management	0.001	-	-	Articles:	-	-	-	FY 2013 Accomplishments: Management				FY 2014 Plans: N/A				FY 2015 Plans: N/A				Accomplishments/Planned Programs Subtotals		0.001	-	Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	• OPN 4248: Airborne MCM - OASIS	-	-	-	-	-	-	-	-	-	-	-	• OPN 1601: LCS MCM Mission Modules	-	-	-	-	-	-	-	-	-	-	-
	FY 2013	FY 2014	FY 2015																																																																									
Title: Program Management	0.001	-	-																																																																									
Articles:	-	-	-																																																																									
FY 2013 Accomplishments: Management																																																																												
FY 2014 Plans: N/A																																																																												
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Accomplishments/Planned Programs Subtotals		0.001	-																																																																									
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost																																																																	
• OPN 4248: Airborne MCM - OASIS	-	-	-	-	-	-	-	-	-	-	-																																																																	
• OPN 1601: LCS MCM Mission Modules	-	-	-	-	-	-	-	-	-	-	-																																																																	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 2427 / OASIS

E. Performance Metrics

The Organic Airborne and Surface Influence Sweep (OASIS) programed was cancelled by ASN/RDA 29 Jan 2013.

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy											Date: March 2014																																							
Appropriation/Budget Activity 1319 / 5											R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)										Project (Number/Name) 2427 / OASIS																													
OASIS											FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019															
											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												
OASIS											Program Canceled																																							
																																											</							

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 2473 / Airborne Mine Neutralization System			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2473: Airborne Mine Neutralization System	144.254	30.271	28.701	7.507	-	7.507	43.434	41.181	45.112	12.544	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 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 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 and the Amphibious Objective Area (AOA). Improved AMNS (iAMNS) provides an expendable, reacquisition, identification and neutralization capability against bottom, moored and Near Surface sea mines. iAMNS is deployed from both MH-60S multi mission helicopters and Unmanned Surface Vehicles (USV), or any craft of opportunity, using existing common communications, command & control and launching equipment.												
AMNS (Seafox) will be deployed from the MH-53E helicopter; this effort converts a FY 2003 Rapid Deployment Capability (RDC) into a program of record. The development, testing and integration phases will be completed in FY14.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: AMNS: Development/Engineering Support									15.172	10.761	3.298	
									Articles: -	-	-	
FY 2013 Accomplishments:												
Develop technical/engineering products, including training materials and interactive technical manuals. Provide engineering support, including review for product development and integration.												
AMNS Near Surface (N/S) conducted engineering and software development and design efforts.												
FY 2014 Plans:												
Provide technical/engineering support, including review for product development and integration. Develop technical/logistics products, including training materials and interactive technical manual.												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 2473 / Airborne Mine Neutralization System		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
AMNS Near Surface (N/S) Hardware and Software technology development and Engineering studies.				
FY 2015 Plans: Provide engineering support, including review for product development and integration. Develop logistics products, including training materials and interactive technical manuals.				
iAMNS - technical support for the development and release of RFP for System Development and Demonstration contract (SD&D).				
Title: AMNS: Test and Evaluation		13.846	10.945	2.947
Articles:		-	-	-
FY 2013 Accomplishments: Completed MH-60S TECHEVAL (DT) Live Fire and Conducted AMNS/MH-60S DT/IT				
FY 2014 Plans: AMNS MH-60S Operational Assessment (OA) Phase A and risk reduction testing. Conduct Equit Qualification Testing.				
FY 2015 Plans: Complete MH-60S Operational Assessment (OA) Phase B and assist with IOT&E testing on LCS.				
Title: AMNS: Management Services		1.253	1.371	1.262
Articles:		-	-	-
FY 2013 Accomplishments: Provide program management support, contract management and travel for AMNS				
FY 2014 Plans: Provide program management support, contract management and travel for AMNS				
FY 2015 Plans: Provide program management support, contract management and travel for AMNS				
iAMNS - program and contract management for the development of acquisition and contract documentation to support RFP for SD&D contract.				
Title: AMNS MH-53E SEAFOX Test and Evaluation		-	3.230	-
Articles:		-	-	-
Description: SEAFOX T&E Efforts				

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 2473 / Airborne Mine Neutralization System		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: N/A					
FY 2014 Plans: Conduct Quick Reaction Assessment (QRA) on the AMNS SEAFOX					
FY 2015 Plans: N/A					
Title: AMNS MH-53E SEAFOX Program Management			-	1.718	-
Articles:			-	-	-
Description: SEAFOX Program Management					
FY 2013 Accomplishments: N/A					
FY 2014 Plans: Establish the AMNS MH-53E Rapid Deployment Capability (RDC) as a program of record to include acquisition documents, contract management and management support.					
FY 2015 Plans: N/A					
Title: AMNS MH-53E SEAFOX ILS			-	0.676	-
Articles:			-	-	-
Description: SEAFOX Integrated Logistics Support (ILS)					
FY 2013 Accomplishments: N/A					
FY 2014 Plans: ILS training and documentation updates					
FY 2015 Plans: N/A					
Accomplishments/Planned Programs Subtotals			30.271	28.701	7.507

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014	
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 2473 / Airborne Mine Neutralization System			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	<u>Total Cost</u>
• OPN 4248: Airborne MCM - AMNS (MH-60 & MH-53)	2.800	22.450	-	-	-	-	-	-	-	-	65.522
• WPN 4225/1: Airborne MCM - AMNS (MH-60 & MH-53)	10.532	15.058	12.134	-	12.134	21.410	22.797	21.403	31.795	-	170.739
• OPN 1601: LCS MCM Mission Modules	2.800	-	6.700	-	6.700	6.223	6.388	6.046	3.169	39.393	70.719
Remarks											
D. Acquisition Strategy											
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. Contract options will be exercised to procure FY13 and FY14 LRIP units.											
Following a successful OT on an MH-60S, FRP is planned for FY16. The Navy has awarded a sole source contract to BAE for neutralizer procurements.											
E. Performance Metrics											
Successfully complete Operational Test (OT) and receive Full Rate Production Decision approval.											

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

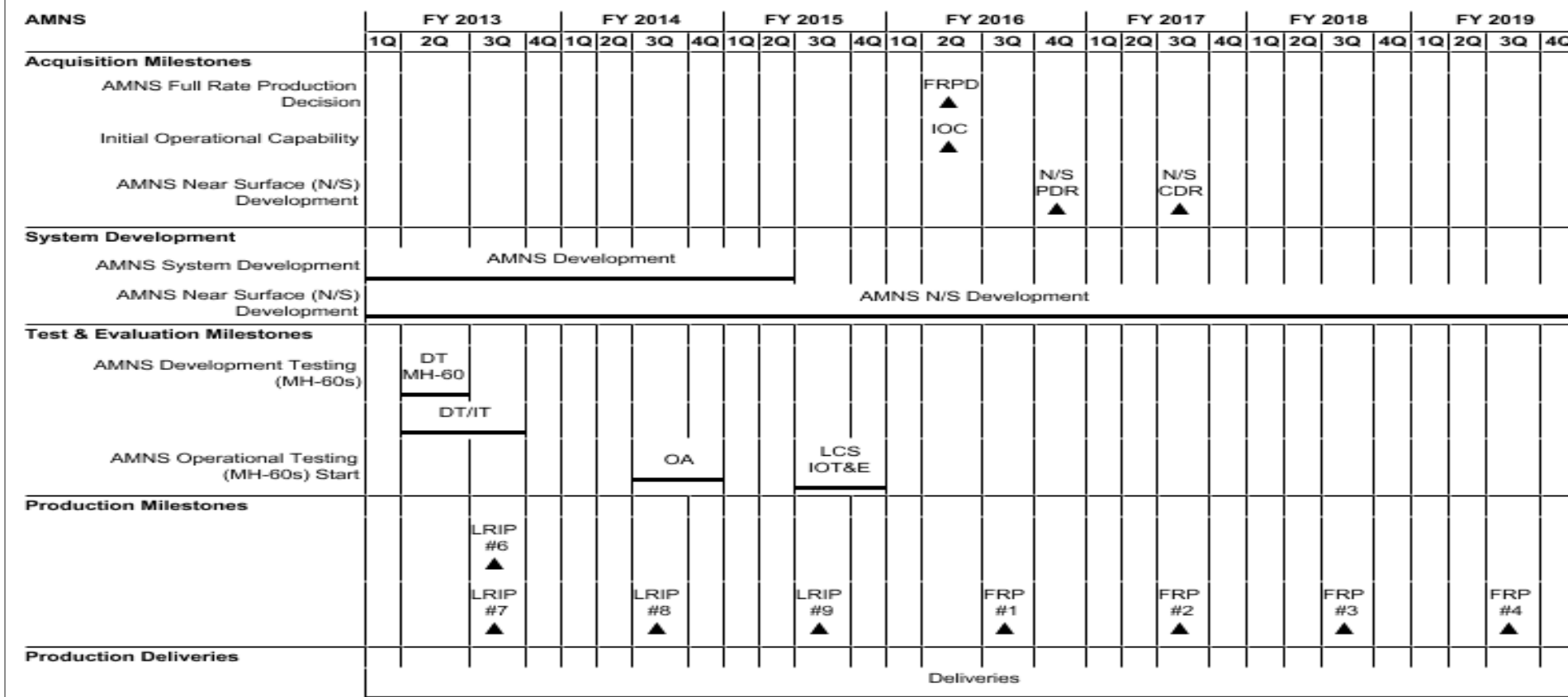
1319 / 5

R-1 Program Element (Number/Name)

PE 0604373N / Airborne Mine
Countermeasures (AMCM)

Project (Number/Name)

2473 / Airborne Mine Neutralization System



2015PB - 0604373N - 2473

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 4026 / Strat Into Medal, Tactics & Trng Organic Force			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
4026: Strat Into Medal, Tactics & Trng Organic Force	17.466	2.357	5.230	7.094	-	7.094	7.169	9.239	9.420	9.630	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 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. CTMP evolved into both developing MEDAL modules for each "Next Generation" system and developing "Next Generation" Tactics. Additionally, CTMP provides threat data and system requirements and capabilities to the MEDAL software development effort. Finally, CTMP develops Networked Sensor Analysis for Mine Warfare (NSAM) as a MOSA compliant plug-in architecture of common post-mission analysis tools for "Next Generation" systems.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Hardware/Software Development Articles: FY 2013 Accomplishments: Code system-specific OPMA Modules NSAM (Net-centric Sensor Analysis for Mine Warfare) Open Architecture development FY 2014 Plans: Continue NSAM Open Architecture development FY 2015 Plans: Continue NSAM Open Architecture development and test									1.337	3.465	5.394	
									-	-	-	
Title: Engineering Services/ILS: Articles: FY 2013 Accomplishments: ILS planning for OPMA NSAM Engineering support Engineering Support for AQS-20A P3I functions into OPMA FY 2014 Plans:									0.885	1.522	1.519	
									-	-	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 4026 / Strat Into Medal, Tactics & Trng Organic Force	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Update ALMDS & AMNS TACMEMOs, upgrade tactics for MCM Mission Package and NSAM Engineering Support			
FY 2015 Plans: Continue to update ALMDS & AMNS TACMEMOs, upgrade tactics for P3I sensors on AN/AQS-20A and NSAM Engineering Support			
Title: Management Support			
Articles:		0.135	0.243
		-	-
FY 2013 Accomplishments: CTMP management support NSAM Management Support			
FY 2014 Plans: CTMP management support NSAM Management Support			
FY 2015 Plans: CTMP management support NSAM Management Support			
Accomplishments/Planned Programs Subtotals		2.357	5.230
			7.094
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The Organic Post-Mission Analysis (OPMA) capability for the OAMCM systems will be developed by NSWC PCD, 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-PCD 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-PCD. 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. NSAM will merge capabilities of OPMA and NAVO's Evironmental PMA (EPMA) capabilities into an Open Architecture framework. Increment Build One will Utilize government teams to expedite fielding significant contact management and data fusion techniques.			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 4026 / Strat Into Medal, Tactics & Trng Organic Force
E. Performance Metrics Successfully integrate CTMP into the fleet.		

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604373N / Airborne Mine
Countermeasures (AMCM)

Project (Number/Name)

4026 / Strat Into Medal, Tactics & Trng
Organic Force

Proj 4026		FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019						
		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	OPMA: Ongoing Development for P3I; Software																														
						OPMA: Tech Refresh																										
								OPMA: IA Recertification																								
	NSAM	NSAM: NSAM S/W Development																														
						NSAM: NSAM Pubs																										
	Tactics	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																																

2015DON - 0604373N - 4026

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)				Project (Number/Name) 9179 / Surf Navy Integ Undersea Tactical Tech			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
9179: Surf Navy Integ Undersea Tactical Tech	3.411	0.648	0.905	0.881	-	0.881	0.893	0.914	0.933	0.954	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 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-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 2013	FY 2014	FY 2015
Title: Hardware and Software Development Articles: FY 2013 Accomplishments: Development of AN/AQS-24, AN/AQS-20A sonar training module and ALMDS training modules. FY 2014 Plans: Development of an AN/AQS-24, AN/AQS-20A sonar training module. Also development of a COBRA refresher Senaric Training module ALMDS training modules. FY 2015 Plans: Update of an AN/AQS-24, AN/AQS-20A sonar training module. Also development of a Scenario Generator software system for COBRA for mine field recognition training and ALMDS training modules.										0.521	0.773	0.747
										-	-	-
Title: Engineering and ILS Services Articles: FY 2013 Accomplishments: Provide SNIUTT In-Service Engineering Agent (ISEA) and development support. FY 2014 Plans: Provide SNIUTT In-Service Engineering Agent (ISEA) and development support. FY 2015 Plans: Provide SNIUTT In-Service Engineering Agent (ISEA) and development support.										0.127	0.132	0.134
										-	-	-
Accomplishments/Planned Programs Subtotals										0.648	0.905	0.881

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604373N / Airborne Mine Countermeasures (AMCM)	Project (Number/Name) 9179 / Surf Navy Integ Undersea Tactical Tech	

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN 4248: Airborne MCM - SNIUTT	0.300	0.300	-	-	-	-	-	-	-	-	0.600

Remarks

D. Acquisition Strategy

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 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 PCD, Panama City, FL,. 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.

E. Performance Metrics

Successfully integrate SNIUTT into the school house training facility and provide to AMCM detachments for refresher training.