

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification									DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-5</b>						R-1 ITEM NOMENCLATURE <b>0604373N Airborne Mine Countermeasures</b>					
COST (\$ in Millions)	Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Total PE Cost	511.860	52.978	58.623	54.761	20.251	15.802	26.741	34.541	41.425	Continuing	Continuing
Airborne Mine Hunt System / 0529	209.147	6.635	10.924	5.184	2.510	4.841	7.672	11.220	11.232	Continuing	Continuing
ALMDS / 2047	88.843	7.864	11.576	12.792	6.500	3.311	9.596	10.119	15.508	Continuing	Continuing
OASIS / 2427/2883	64.350	13.570	12.048	7.804	0.000	0.000	3.113	4.736	4.823	Continuing	Continuing
AMNS / 2473	143.148	23.116	19.096	24.621	7.768	4.698	3.457	5.506	6.876	Continuing	Continuing
C4I, Tactics and Mission Planning / 4026	1.234	1.793	2.289	3.793	2.802	1.981	1.934	1.972	2.002	Continuing	Continuing
SNIUTT / 9179	5.138	0.000	0.000	0.567	0.671	0.971	0.969	0.988	0.984	Continuing	Continuing
9999 Congressional Add	0.000	0.000	2.690	0.000	0.000	0.000	0.000	0.000	0.000		2.690
Quantity of RDT&E Articles	14										14

**:U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION)** The Airborne Mine Countermeasures (AMCM) programs will deploy to the fleet as sensors integrated into the MH-53E and MH-60S platforms in order to provide Mine-Like Object Detection/classification/localization, Mine Identification, mine reacquisition and neutralization, and influence clearance capabilities. The "Next Generation" AMCM systems will provide this set of capabilities to the 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). Some interest in the following areas has been expressed: 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. 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 module for a LAN-based Surface .(Network .Embedded)Analysis and Tactical Trainer SNEATT

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APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY BA-5</b>	R-1 ITEM NOMENCLATURE <b>0604373N Airborne Mine Countermeasures</b>
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**(U) B. PROGRAM CHANGE SUMMARY:**

(U) B. PROGRAM CHANGE SUMMARY:	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Previous President's Budget (FY07 Pres. Controls)	53.837	56.145	36.616	11.198
Current BES/Presidents Budget (FY08/09 Pres. Controls)	52.978	58.623	54.761	20.251
Total Adjustments	(0.859)	2.478	18.145	9.053
Summary of Adjustments:				
Congressional Undistributed Reductions	(0.859)	-0.222	0.000	0.000
Program Adjustment	0.000	2.700	18.145	9.053
Subtotal	(0.859)	2.478	18.145	9.053

**Schedule:** Acquisition Strategy for the Organic Airborne Mine Countermeasure (OAMCM) programs reflects the integration into the MH-60S assets availability to support testing. **AN/AQS-20A** MH-60S DT and MH-60S OT testing will be conducted in support of an FY 2007 FRPD. MH-60S DT will began in May 2006 and is scheduled to complete 2nd Quarter 2007. MH-60S OT will be conducted and completed 3rd Quarter 2007. **ALMDS** The March 2006 Program Review Decision Memorandum approved the proposed spiral development strategy to achieve full performance through Engineering Change Proposals (ECPs). MH-60S Developmental Testing (DT-IID/E is scheduled for FY08, and Operational Testing (OT) is scheduled for FY08. **OASIS** acquisition strategy includes an FY07 LRIP decision following CT on the MH-60S. Procurement will begin with LRIP units in FY07 with full rate production beginning in FY09 after Opeval is completed. LRIP and Full Rate procurements will be will be sole source, exercising options in the existing SD&D contract. **AMNS** MH-60S Block 2B aligned AMNS schedule extends SD&D phase out to end of FY08 with a FY09 IOC. MS C will be based on Alternate Platform tests conducted in FY06. **RAMICS** MH-60S Block 2B aligned RAMICS extends SD&D phase out to end of FY08 and IOC in FY10.

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EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N/Airborne Mine Countermeasures</b>				PROJECT NUMBER AND NAME <b>0529 Airborne Mine Hunt Systems</b>						
COST (\$ in Millions)		Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Project Cost		<b>209.147</b>	<b>6.635</b>	<b>10.924</b>	<b>5.184</b>	<b>2.510</b>						
RDT&E Articles Qty		<b>3</b>										

**(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

This project includes a sonar for mine detection, classification and identification. The Navy does not possess a capability to conduct minefield reconnaissance (mine density and location) at high area search rates. The AN/AQS-20A is being developed to address the emergent requirements for mine identification and to integrate AMCM systems with a MH-60S platform. The AN/AQS-20A will also be the mine hunting sonar component for the Remote Mine hunting System (RMS). The AN/AQS-20A will be developed to meet the requirements of the Littoral Combat Ship (LCS) Mine Warfare Mission Module.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N , BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>0529 Airborne Mine Hunt Systems</b>

**B. Accomplishments/Planned Program**

Product Development	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.877	6.914	3.769	1.430
RDT&E Articles Quantity				

Commence Pre-Planned Product Improvement (P3I) to improve FLS/VSS sensors.  
 Develop CAD/CAC algorithm fusion.  
 Develop environmental data collection capabilities.

Support	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.733	2.350	0.574	0.375
RDT&E Articles Quantity				

Complete interface/integration with MH-60S, C4I Interface and MEDAL. Continue development of ILS & supportability products, training materials.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N , BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>0529 Airborne Mine Hunt Systems</b>

**B. Accomplishments/Planned Program**

Test and Evaluation	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.550	1.000	0.550	0.550
RDT&E Articles Quantity				

Continued integration of towed body with MH-60S common console/CSTARS and parallel towed body/MH-60S Console hardware-software integration and testing. Conduct MH-60S DT and begin OT. Support Integration Testing on Towed body with RMS. Conduct testing on P3I improvements to the sonar.

Management	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.475	0.660	0.291	0.155
RDT&E Articles Quantity				

Support completion of MH-60S DT/OT events. Develop documentation in support of FRPDR. Continue development of ILS & supportability products and engineering support. Develop ILS & supportability products and engineering support for P3I improvements

<b>Total</b>	<b>6.635</b>	<b>10.924</b>	<b>5.184</b>	<b>2.510</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N , BA-5</b>			PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>			PROJECT NUMBER AND NAME <b>0529 Airborne Mine Hunt Systems</b>				
<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	To <u>Complete</u>	Total <u>Cost</u>
424800 OPN AQS-20A	26.603	45.891	45.220	15.000						
<b>(U) D. ACQUISITION STRATEGY:</b>										
AN/AQS-20A acheived Milestone C on 10 May 2005.										
Sole Source to Raytheon of MH-60S systems LRIP procurement began in FY05 & FY06 with a Full Rate Procurement Option following a Full Rate Production Decision Review (FRPDR) in FY07. Full competition or Sole Source for FRP will begin in FY08.										

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Exhibit R-3 Cost Analysis (page 1)											DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N / BA-5			0604373N Airborne Mine Countermeasures			0529 Airborne Mine Hunt Systems								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	SS/CPIF	Raytheon, Portsmouth, RI	26.986			4.414	10/06					Continuing	Continuing	
Hardware/Software Development	C/CPFF	Raytheon, Portsmouth, RI	60.150									0.000	60.150	
Hardware/Software Development	WX	NSWC, PC	4.966	1.877	10/05	2.500	10/06	3.769	10/07	1.430	10/08	Continuing	Continuing	
Hardware/Software Development	C/FP	Northrop, Grumman	4.572									0.000	4.572	
Subtotal Product Development			96.674	1.877		6.914		3.769		1.430		Continuing	Continuing	
Remarks:														
Engineering Services	WX	NSWC, PC	28.898	0.320	10/05	0.500	10/06	0.474	10/07	0.325	10/08	Continuing	Continuing	
Engineering Services	C/CPFF	Raytheon, Portsmouth, RI	3.286			0.400	10/06					Continuing	Continuing	
Engineering Services	VAR	Various	53.318	0.200	10/05	0.500	10/06					0.000	54.018	
Engineering Services	SS/CPIF	Raytheon, Portsmouth, RI	3.464									0.000	3.464	
ILS Functions	WX	NSWC, PC	5.769	0.213	10/05	0.230	10/06	0.100	10/07	0.050	10/08	Continuing	Continuing	
ILS Functions	SS/CPIF	Raytheon, Portsmouth, RI	0.826			0.720	10/06					Continuing	Continuing	
ILS Functions	VAR	Various	0.981									0.000	0.981	
Subtotal Support			96.542	0.733		2.350		0.574		0.375		Continuing	Continuing	
Remarks:														

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N / BA-5</b>			<b>0604373N Airborne Mine Countermeasures</b>			<b>0529 Airborne Mine Hunt Systems</b>								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
T&E Functions	WX	NSWC, PC	9.868	0.900	06/06	0.500	10/06					Continuing	Continuing	
T&E Functions	SS/CPIF	Raytheon, Portsmouth, RI	0.984	2.650	10/05	0.500	10/06	0.550	10/07	0.550	10/08	Continuing	Continuing	
T&E Functions	VAR	Various	1.583									0.000	1.583	
Subtotal T&E			12.435	3.550		1.000		0.550		0.550		Continuing	Continuing	
Remarks:														
Management Support			3.047	0.450	10/05	0.630	10/06	0.266	10/07	0.130	10/08	Continuing	Continuing	
Travel			0.449	0.025	10/05	0.030	10/06	0.025	10/07	0.025	10/08	Continuing	Continuing	
Subtotal Management			3.496	0.475		0.660		0.291		0.155		Continuing	Continuing	
Remarks:														
Total Cost			209.147	6.635		10.924		5.184		2.510		Continuing	Continuing	
Remarks:														

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																										DATE: <b>February 2007</b>							
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>										PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>										PROJECT NUMBER AND NAME <b>0529 Airborne Mine Hunt Systems</b>													
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
<b>Acquisition Milestones</b>									☆ IOC																								
									△ FRP																								
Development Phase					AN/AQS-20A P3I																												
EDMs Delivery																																	
Software Delivery V 5.X SW Delivery																																	
<b>Test &amp; Evaluation Milestones</b>																																	
Development Test																																	
Operational Test																																	
<b>Production Milestones</b>																																	
LRIP I FY 05 & FY06					AN/AQS-20A LRIP I & II																												
LRIP II FY 06																																	
FRP FY 07																																	
P3I ECP Kits																																	



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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>				PROJECT NUMBER AND NAME <b>2047 Airborne Laser Mine Detection System</b>					
COST (\$ in Millions)	Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Project Cost	<b>88.843</b>	<b>7.864</b>	<b>11.576</b>	<b>12.792</b>	<b>6.500</b>						
RDT&E Articles Qty	<b>3</b>										
<b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>											
<p>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 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 FY2012.</p>											

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**(U) B. Accomplishments/Planned Program**

<b>Product Development</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.526	4.866	5.473	5.540
RDT&E Articles Quantity				

Hardware and Software technology development and demonstration/Engineering Services  
 Continue NRE associated with ECP  
 Performance modeling/PMA software development  
 TDA engineering oversight/support

<b>Support</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.122	0.122	0.325	0.300
RDT&E Articles Quantity				

Integrated Logisitcs Support  
 Training in support of testing  
 TDA oversight of ILS program  
 ILA support and resolution

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<b>(U) B. Accomplishments/Planned Program</b>									
<b>Test and Evaluation</b>	FY 06	FY 07	FY 08	FY 09					
Accomplishments/Effort/Subtotal Cost	3.685	4.000	6.300	0.000					
RDT&E Articles Quantity									
Testing and Evaluation DT-IID Phase (a) (FY06) DT-IID/WSIT CT (FY07) DT-IIE/OT-IIA (FY08)									
<b>Management</b>	FY 06	FY 07	FY 08	FY 09					
Accomplishments/Effort/Subtotal Cost	0.531	2.588	0.694	0.660					
RDT&E Articles Quantity									
Project Management Production Management Program financial management Contracting Officer Management Support									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"><b>Total</b></td> <td style="width:15%;"><b>7.864</b></td> <td style="width:15%;"><b>11.576</b></td> <td style="width:15%;"><b>12.792</b></td> <td style="width:15%;"><b>6.500</b></td> </tr> </table>					<b>Total</b>	<b>7.864</b>	<b>11.576</b>	<b>12.792</b>	<b>6.500</b>
<b>Total</b>	<b>7.864</b>	<b>11.576</b>	<b>12.792</b>	<b>6.500</b>					

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<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, N / BA-5			<b>PROGRAM ELEMENT NUMBER AND NAME</b> 0604373N Airborne Mine Countermeasures			<b>PROJECT NUMBER AND NAME</b> 2047 Airborne Laser Mine Detection System				
<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
424800 OPN	5.800	11.192	17.000	1.953						
<b>(U) D. ACQUISITION STRATEGY:</b>										
<p>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 and two trainers for FY07 pending successful demonstration of Engineering Change Proposal (ECP) I performance during DT-IID; DT-IID will be conducted on a SH-60F helicopter. LRIP Lot 3 was approved as an additional procurement for up to four units (combined N85 and N86 funding) pending successful completion of ECP I performance during OT-IIA which will be conducted on and MH-60S. Full Rate Production (FRP) Lot 1 will also be an FRP option to LRIP I contract. FRP Lot 2 will be a new competitively awarded contract with options for the subsequent three years.</p>										

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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N / BA-5			0604373N Airborne Mine Countermeasures			2047 Airborne Laser Mine Detection System								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	WX	NSWC, PC	0.565	0.095	05/06							0.000	0.660	
Hardware/Software Development	WX	NSWC, PC, (Prime Contractor)	23.461	0.800	05/06	0.000	12/07	2.699	10/07	3.894	10/08	Continuing	Continuing	
Hardware/Software Development	RX	Metron	0.625									0.000	0.625	
Hardware/Software Development	RX	SAIC	0.200									0.000	0.200	
Engineering Services	WX	NSWC, PC	9.989	0.808	10/05	0.661	10/06	0.218	10/07	0.366	10/08	Continuing	Continuing	
Engineering Services	WX	NSWC, PC, (Prime Contractor)	13.147			1.120	10/06					0.000	14.267	
Engineering Services	VAR	Various	7.094	1.123	10/05	1.835	10/06	2.556	10/07	1.280	10/08	Continuing	Continuing	
Engineering Services	RX	Various	3.322									Continuing	Continuing	
Engineering Services	RX	NSWC PC		0.700	10/05	1.250	10/06					0.000	1.950	
Subtotal Product Development			58.403	3.526		4.866		5.473		5.540		Continuing	Continuing	
Remarks:														
ILS Functions	WX	NSWC, PC	1.696	0.122	10/05	0.122	10/06	0.325	10/07	0.300	10/08	Continuing	Continuing	
ILS Functions	WX	NSWC, PC, (Prime Contractor)	5.725									Continuing	Continuing	
ILS Functions	VAR	Various/NRL Stennin	1.062									0.000	1.062	
ILS Functions	WX	NSWC, PC	0.300									0.000	0.300	
Subtotal Support			8.783	0.122		0.122		0.325		0.300		Continuing	Continuing	
Remarks:														

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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
<b>RDT&amp;E, N / BA-5</b>			<b>0604373N Airborne Mine Countermeasure</b>				<b>2047 Airborne Laser Mine Detection System</b>							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Testing and Evaluation	WX	NSWC, PC, (Prime Contract	9.186	0.486	05/06	1.600	11/06	2.800	11/07			Continuing	Continuing	
Testing and Evaluation	WX	NSWC, PC	8.270	3.199	05/06	2.400	10/06	3.500	10/07			Continuing	Continuing	
Testing and Evaluation	VAR	Various	0.392									0.000	0.392	
Subtotal T&E			17.848	3.685		4.000		6.300		0.000		Continuing	Continuing	
Remarks:														
Travel	PD	NAVSEA	0.285									Continuing	Continuing	
Management Support	VAR	Various	1.901	0.042	10/05			0.050	10/07	0.050	10/08	Continuing	Continuing	
Management Support	WX	NSWC, PC, (Prime Contract	0.579			0.980	11/06	0.100	11/07	0.100	11/08	Continuing	Continuing	
Management Support	WX	NSWC, PC	1.044	0.489	10/05	1.608	10/06	0.544	10/07	0.510	10/08	Continuing	Continuing	
Subtotal Management			3.809	0.531		2.588		0.694		0.660		Continuing	Continuing	
Remarks:														
Total Cost			88.843	7.864		11.576		12.792		6.500		Continuing	Continuing	
Remarks:														





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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>				PROJECT NUMBER AND NAME <b>2427/2883 Organic Airborne and Surface Influence Sweep</b>						
COST (\$ in Millions)		Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Project Cost		<b>64.350</b>	<b>13.570</b>	<b>12.048</b>	<b>7.804</b>	<b>0.000</b>						
RDT&E Articles Qty		<b>3</b>										

**(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

The 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, tow and sweep cable systems, 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. The program recently added the Organic Cable Reeling Assembly (ORCA), a maintenance tool for cables used by OASIS and other systems. ORCA will provide a system for loading and unloading cables on the Carriage Stream and Recovery System (CSTRS) without the requirement for an MH60 helicopter. Areas of interest 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.

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>2427/2883 Organic Airborne and Surface Influence Sweep</b>

**B. Accomplishments/Planned Program**

<b>Product Development</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.936	0.954	2.286	0.000
RDT&E Articles Quantity				

Continue to assemble 3 EDM systems, including all required hardware/software components  
Develop and build the Organic Reeling Cable Assembly (ORCA) system.

<b>Support</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	6.074	5.020	0.925	0.000
RDT&E Articles Quantity				

Continue Engineering and Logistics support for meeting system program requirements.  
Provide logistics required for system testing and preparation for fleet introduction.  
Provide Engineering and Logistical inputs for ORCA system requirements.

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>2427/2883 Organic Airborne and Surface Influence Sweep</b>

**B. Accomplishments/Planned Program**

<b>Test and Evaluation</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	4.598	5.638	3.978	0.000
RDT&E Articles Quantity				

Complete Contractor Qualification Testing on the EDM systems  
 Conduct CT/DT/OA on an MH-53E helicopter and CT, DT and OT on an MH-60S helicopter.

<b>Management</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.962	0.436	0.615	0.000
RDT&E Articles Quantity				

Monitor contractor progress with regard to schedule, cost, and technical status  
 Monitor contractor CDRL and other deliverables.

<b>Total</b>	<b>13.570</b>	<b>12.048</b>	<b>7.804</b>	<b>0.000</b>
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**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>			
<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, N / BA-5			<b>PROGRAM ELEMENT NUMBER AND NAME</b> 0604373N Airborne Mine Countermeasures			<b>PROJECT NUMBER AND NAME</b> 2427/2883 Organic Airborne and Surface Influence Sweep				
<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
424800 OPN (OASIS)	0.000	10.326	0.000	14.009						
424800 OPN (ORCA)	0.000	0.000	2.365	2.800						
	0.000	10.326	2.365	16.809						
Funding line includes OASIS Trainer and Organic Reeling Cable Assembly (ORCA).										
<b>(U) D. ACQUISITION STRATEGY:</b>										
After Milestone B review in FY02, a SD&D contract was awarded. In FY07, following a successful CT/OA and MS C, the LRIP procurement option will be exercised. In FY09 after a successful OT full rate production will begin. Production systems will be procured sole source using the production options in the SD&D contract.										

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
<b>RDT&amp;E, N / BA-5</b>			<b>Airborne Mine Countermeasures/0604373N</b>				<b>2427/2883 Organic Airborne and Surface Influence Sweep</b>							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	C/CPFF	EDO Corp.	1.722									0.000	1.722	
Hardware/Software Development	C/CPIF	EDO Corp.	9.431	1.936	10/05	0.954	11/06	2.286	11/07			Continuing	Continuing	
Hardware/Software Development	SS/CPFF	Aeptec Microsystems Inc	5.898									Continuing	Continuing	
Subtotal Product Development			17.051	1.936		0.954		2.286		0.000		Continuing	Continuing	
Remarks:														
Engineering Services	WX	NUWC Keyport	0.659									0.000	0.659	
Engineering Services	C/CPIF	EDO Corp	11.318	1.375	01/06	1.120	11/06					Continuing	Continuing	
Engineering Services	WX	NSWC, PC	9.734	1.681	12/05	1.655	11/06					Continuing	Continuing	
Engineering Services	WX	NSWC Carderock MD	0.725	0.300	12/05							0.000	1.025	
Engineering Services/ILS	VAR	Various	0.548									0.000	0.548	
Engineering Services	PD	ONR	4.565	1.890	10/05	1.441	10/06	0.496	11/07			Continuing	Continuing	
ILS Functions	C/CPIF	EDO Corp	3.484	0.441	10/05	0.400	12/06					Continuing	Continuing	
ILS Functions	WX	NSWC, PC	1.545	0.387	10/05	0.404	11/06	0.429	11/07			Continuing	Continuing	
Subtotal Support			32.578	6.074		5.020		0.925		0.000		Continuing	Continuing	
Remarks:														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N / BA-5			0604373N Airborne Mine Countermeasures			2427/2883 Organic Airborne and Surface Influence Sweep								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total P Y s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
T&E Functions	C/CPIF	EDO Corp	5.130	1.396	10/05	1.450	01/07	0.300	04/08			Continuing	Continuing	
T&E Functions	WX	NSWC, PC	4.900	3.202	10/05	4.188	01/07	3.678	04/08			Continuing	Continuing	
T&E Functions	VAR	Various	0.554									0.000	0.554	
Subtotal T&E			10.584	4.598		5.638		3.978		0.000		Continuing	Continuing	
Remarks:														
Management Support	VAR	Various	3.912	0.932	10/05	0.406	10/06	0.590	11/07			Continuing	Continuing	
Travel	PD	NAVSEA	0.225	0.030	10/05	0.030	10/06	0.025	11/07			Continuing	Continuing	
Subtotal Management			4.137	0.962		0.436		0.615		0.000		Continuing	Continuing	
Remarks:														
Total Cost			64.350	13.570		12.048		7.804		0.000		Continuing	Continuing	
Remarks:														





**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>				PROJECT NUMBER AND NAME <b>2473 Airborne Mine Neutralization Systems</b>						
COST (\$ in Millions)		Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Project Cost		<b>143.148</b>	<b>23.116</b>	<b>19.096</b>	<b>24.621</b>	<b>7.768</b>						
RDT&E Articles Qty		<b>AMNS=3</b> <b>RAMICS=2</b>										
<b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>												
<p>AMNS will provide the MH-60S helicopter with the capability to neutralize bottom and moored mines using an expendable mine neutralization device. The AMNS is being tested on the MH-53E helicopter to prove out the neutralization effectiveness. The system will be deployed from the MH-60S helicopter as part of the 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). Development of an Untethered Launch and Handling System (LHS) for AMNS will occur in FY11-FY13.</p> <p>The AN/AWS-2 Rapid Airborne Mine Clearance System (RAMICS) MIW program began Concept &amp; Technology Development phase in FY00. RAMICS will satisfy the U.S. Navy's need for a rapid mine clearance capability required to neutralize near-surface and surface (floating) moored sea mines. RAMICS will use geo-location data provided by other mine hunting and mine reconnaissance systems, use a laser system to reacquire targets and to direct the fire of supercavitating projectiles that will render the mines inoperable. RAMICS includes the following major subsystems:</p> <ul style="list-style-type: none"> <li>(a) Gun Subsystem (including gun and turret)</li> <li>(b) Munition Subsystem - MK258 Mod 1 Armor Piercing, Fin Stabilized, Discarding Sabot-Tracer (APFSDS-T)</li> <li>(c) Targeting Sensor Subsystem.</li> <li>(d) Fire Control Subsystem.</li> </ul> <p>The system will be deployed from the MH-60S helicopter and will provide organic airborne mine defense 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).</p>												

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EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>2473 Airborne Mine Neutralization Systems</b>

**(U) B. Accomplishments/Planned Program**

<b>Product Development (AMNS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.490	0.000	0.000	0.000
RDT&E Articles Quantity				

Complete fabrication of EDMs.

<b>Support (AMNS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.053	3.662	5.468	0.000
RDT&E Articles Quantity				

Develop logistics products, including training materials and interactive technical manual. Provide engineering support, including review for product development and integration.

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2007</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>2473 Airborne Mine Neutralization Systems</b>		
<b>(U) B. Accomplishments/Planned Program</b>				
<b>Test and Evaluation (AMNS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	2.720	8.006	3.770	0.000
RDT&E Articles Quantity				
FY06: Conduct alternate platform testing. FY07: Conduct MH-60S contractor test and initiate MH-60S TECHEVAL. FY08: Complete MH-60S TECHEVAL. Conduct MH-60S OPEVAL.				
<b>Management (AMNS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.308	0.411	0.314	0.000
RDT&E Articles Quantity				
Provide program management support and travel for AMNS.				
<b>AMNS Total</b>	<b>7.571</b>	<b>12.079</b>	<b>9.552</b>	<b>0.000</b>

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification	DATE: <b>February 2007</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>2473 Airborne Mine Neutralization System</b>
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**(U) C. OTHER PROGRAM FUNDING SUMMARY:**

<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
AMNS										
424800 OPN	0.000	4.481	7.946	16.777						
AMNS										
422500 WPN	1.495	3.138	3.534	5.716						
	1.495	7.619	11.48	22.493						

**(U) D. ACQUISITION STRATEGY:**

In FY07 following a successful alternate platform test, contractor test on an MH-60S, and MS-C, the Navy will exercise two (2) LRIP options in the current AMNS SD&D contract with Raytheon. Following a successful DT and OT on an MH-60S, FRP is planned for FY09. The Navy will award a sole source contract to BAE for Common Neutralizer procurements, to begin in FY07.

**AMNS ONLY**

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>2473 Airborne Mine Neutralization Systems</b>

**(U) B. Accomplishments/Planned Program**

<b>Product Development (RAMICS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	4.115	0.649	9.510	4.702
RDT&E Articles Quantity				

Continue RAMICS design, develop, and fabrication of Engineering Development Models (EDMs).  
 Conduct contractor testing (CT). WSIT Ground Test, EDM Delivery  
 Start captive carriage and jettison testing on the MH-60S helicopter. Alternate Platform Testing (DTIIA), WSIT CT, MS C  
 Technical, Environmental Tests

<b>Support (RAMICS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.973	4.055	2.409	1.227
RDT&E Articles Quantity				

To support Project management, system engineering, ILS and Software Development.

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2007</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>2473 Airborne Mine Neutralization Systems</b>		
<b>(U) B. Accomplishments/Planned Program</b>				
<b>Test and Evaluation (RAMICS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	7.127	1.983	2.820	1.509
RDT&E Articles Quantity				
Support Contractor Testing (CT) WSIT ground Test, EDM Delivery. Support captive carriage and jettison testing on the MH-60S helicopter AH Platform Testing (DTIIA), WSIT CT, and environmental tests.				
<b>Management (RAMICS ONLY)</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.330	0.330	0.330	0.330
RDT&E Articles Quantity				
Support all Program Management efforts and T&E efforts.				
<b>RAMICS Total</b>	<b>15.545</b>	<b>7.017</b>	<b>15.069</b>	<b>7.768</b>

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>			
<b>APPROPRIATION/BUDGET ACTIVITY</b> RDT&E, N / BA-5			<b>PROGRAM ELEMENT NUMBER AND NAME</b> 0604373N Airborne Mine Countermeasures			<b>PROJECT NUMBER AND NAME</b> 2473 Airborne Mine Neutralization System				
<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
RAMICS 422500 WPN	0.000	0.000	0.000	13.235						
RAMICS 19600 PANMC	0.000	0.000	0.000	0.974						
	0.000	0.000	0.000	14.209						
<b>(U) D. ACQUISITION STRATEGY:</b>										
RAMICS: Achieved MS B in July 2002 and awarded SD&D contract in August 2002 based on a full and open competition. Following MS C , an FY09 LRIP award is planned for two (2) systems for fleet use. Full Rate Production (FRP) is scheduled to start in FY10.										
<b>RAMICS ONLY</b>										

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)	DATE: <b>February 2007</b>
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APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT	PROJECT NUMBER AND NAME											
<b>RDT&amp;E, N / BA-5</b>		<b>0604373N Airborne Mine Countermeasures</b>	<b>2473 Airborne Mine Neutralization System</b>											
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	C/845	Lockheed Syracuse, NY	3.331									0.000	3.331	
Hardware/Software Development	VAR	Various	3.359									0.000	3.359	
Hardware/Software Development	WX	NSWC, PC	1.463	0.812	10/05							0.000	2.275	
Hardware/Software Development	C/CPIF	Raytheon, Portsmouth RI	15.676	0.678	10/05							0.000	16.354	
Untethered Hardware Development	C/CPIF	TBD	0.000									4.480	4.480	
Untethered Hardware Development	WX	NSWC, PC	0.000									0.600	0.600	
Subtotal Product Development			23.829	1.490		0.000		0.000		0.000		5.080	30.399	

**Remarks: AMNS ONLY**

Engineering Services	VAR	Various	3.300									0.000	3.300	
Engineering Services	WX	NSWC, PC	14.811	2.288	10/05	1.985	10/06	3.213	10/07			0.000	22.297	
Engineering Services	C/CPIF	Raytheon, Portsmouth RI	6.104	0.175	10/05	1.677	10/06	2.255	10/07			0.000	10.211	
Untethered Engineering Services	C/CPIF	TBD	0.000									0.677	0.677	
Untethered Engineering Services	WX	NSWC, PC	0.000									1.182	1.182	
ILS Functions	WX	NSWC, PC	3.334	0.590	10/05							0.000	3.924	
ILS Functions	SS/BOA	Lockheed Syracuse, NY	0.227									0.000	0.227	
ILS Functions	C/CPIF	Raytheon, Portsmouth RI	1.735									0.000	1.735	
Untethered ILS Functions	C/CPIF	TBD	0.000									0.200	0.200	
Untethered ILS Functions	WX	NSWC, PC	0.000									0.623	0.623	
Subtotal Support			29.511	3.053		3.662		5.468		0.000		2.682	44.376	

**Remarks: AMNS ONLY**

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-5			0604373N Airborne Mine Countermeasures				2473 Airborne Mine Neutralization System							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	VAR	Various	0.300									0.000	0.300	
Developmental Test & Evaluation	WX	NSWC, PC	9.960	1.883	10/05	3.904	10/06					0.000	15.747	
Developmental Test & Evaluation	SS/BOA	Lockheed Syracuse, NY	1.254									0.000	1.254	
Developmental Test & Evaluation	C/CPIF	Raytheon, Portsmouth RI	3.885	0.837	10/05	1.037	10/06					0.000	5.759	
Operational Test & Evaluation	WX	COTF Norfolk, VA	1.388					3.613	10/07			0.000	5.001	
Operational Test & Evaluation	SS/BOA	Lockheed Syracuse, NY	0.767									0.000	0.767	
Test Assets	C/CPIF	Raytheon, Portsmouth RI	0.000			3.065	10/06	0.157	10/07			0.000	3.222	
Untethered Test and Evaluation	C/CPIF	TBD	0.000									0.400	0.400	
Untethered Test and Evaluation	WX	NSWC, PC	0.000									1.800	1.800	
Subtotal T&E			17.554	2.720		8.006		3.770		0.000		2.200	34.250	
<b>Remarks: AMNS ONLY</b>														
Program Management Support	VAR	Various	1.846	0.268	10/05	0.371	10/06	0.274	10/07			0.000	2.759	
Travel	PD	NAVSEA	0.214	0.040	10/05	0.040	10/06	0.040	10/07			0.000	0.334	
Subtotal Management			2.060	0.308		0.411		0.314		0.000		0.000	3.093	
<b>Remarks: AMNS ONLY</b>														
<b>Total Cost (AMNS ONLY)</b>			<b>72.954</b>	<b>7.571</b>		<b>12.079</b>		<b>9.552</b>		<b>0.000</b>		<b>9.962</b>	<b>112.118</b>	

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N / BA-5</b>			<b>0604373N Airborne Mine Countermeasures</b>			<b>2473 Airborne Mine Neutralization System</b>								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total P Y s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	C/CPIF	Northrop Grumman, FL	25.865	4.115	10/05	0.649	10/06	8.676	10/07	4.277	10/08	4.999	48.581	
Hardware/Software Development	WX	NSWC, PC	1.634					0.729	10/07	0.372	10/08	0.507	3.242	
Hardware/Software Development	RCP	Crane - Crane, IN	2.095					0.105	10/07	0.053	10/08	0.074	2.327	
Subtotal Product Development			29.594	4.115		0.649		9.510		4.702		5.580	54.150	
<b>Remarks: RAMICS ONLY</b>														
Engineering Services	C/CPIF	Northrop Grumman, FL	7.971	1.293	10/05	3.005	10/06	1.345	10/07	0.685	10/08	0.933	15.232	
Engineering Services	WX	NSWC, PC	7.412	0.322	10/05	0.700	10/06	0.109	10/07	0.055	10/08	0.076	8.674	
Engineering Services	Various	Crane - Crane, IN	2.432			0.300	10/06	0.016	10/07	0.008	10/08	0.012	2.768	
Engineering Services	WX	Various	1.527	0.880	10/05	0.050	10/06	0.123	10/07	0.063	10/08	0.086	2.729	
ILS Functions	C/CPIF	Northrop Grumman, FL	5.077	0.943	10/05			0.672	10/07	0.342	10/08	0.465	7.499	
ILS Functions	WX	NSWC, PC	1.080	0.255	10/05			0.054	10/07	0.028	10/08	0.039	1.456	
ILS Functions	Various	Various	1.500	0.280	10/05			0.090	10/07	0.046	10/08	0.064	1.980	
Subtotal Support			26.999	3.973		4.055		2.409		1.227		1.675	40.338	
<b>Remarks: RAMICS ONLY</b>														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N / BA-5</b>			<b>0604373N Airborne Mine Countermeasures</b>			<b>2473 Airborne Mine Neutralization System</b>								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Test & Evaluation	C/CPIF	Northrop Grumman, FL	3.389	3.385	10/05	0.416	10/06	2.017	10/07	1.028	10/08	1.390	11.625	
Test & Evaluation	WX	NSWC, PC	1.594	2.720	10/05	0.400	10/06	0.163	10/07	0.083	10/08	0.113	5.073	
Test & Evaluation	WX	Crane - Crane, IN	0.677	0.180	10/05	0.167	10/06	0.023	10/07	0.012	10/08	0.017	1.076	
Test & Evaluation	Various	Various	5.315	0.842	10/05	1.000	10/06	0.617	10/07	0.386	10/08	0.429	8.589	
Subtotal T&E			10.975	7.127		1.983		2.820		1.509		1.949	26.363	
<b>Remarks: RAMICS ONLY</b>														
Management Support	Various	Various	2.446	0.300	10/05	0.300	10/06	0.300	10/07	0.300	10/08	1.200	4.846	
Management Support	PD	Travel	0.180	0.030	10/05	0.030	10/06	0.030	10/07	0.030	10/08	0.120	0.420	
Subtotal Management			2.626	0.330		0.330		0.330		0.330		1.320	5.266	
<b>Remarks: RAMICS ONLY</b>														
<b>Total Cost (RAMICS ONLY)</b>			<b>70.194</b>	<b>15.545</b>		<b>7.017</b>		<b>15.069</b>		<b>7.768</b>		<b>10.524</b>	<b>126.117</b>	
Remarks: This is RAMICS only .														

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																									DATE: <b>February 2007</b>							
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>										PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>										PROJECT NUMBER AND NAME <b>2473 Airborne Mine Neutralization System</b>												
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones							MS C △								☆																	
Prototype Phase	[Redacted] se (MH-60S)														IOC																	
EDM Contract Award																																
Significant Events																																
EDM Deliveries			▲ 1,2,3																													
Test & Evaluation Milestones																																
Development Test																																
Operational Test																																
Production Milestones																																
LRIP (MH-60S)							LRIP △				LRIP △																					
FRP (MH-60S)																																
Deliveries																																

AMNS ONLY



CLASSIFICATION:

EXHIBIT R4, Schedule Profile																									DATE: <b>February 2007</b>								
APPROPRIATION/BUDGET ACTIVITY										PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME													
<b>RDT&amp;E, N / BA-5</b>										<b>0604373N Airborne Mine Countermeasures</b>										<b>2473 Airborne Mine Neutralization System</b>													
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
<b>Acquisition Milestones</b>												MSC △							FRPD △	IOC ☆													
<b>Program Phases</b>	System Development and Demonstration (SD&D)																																
<b>Significant Events</b>													DTRR △								OTRR △												
<b>EDM Delivery</b>					EDM 1 △				EDM 2 △																								
<b>Test &amp; Evaluation Milestones</b>																																	
Development Test																																	
Operational Test																																	
<b>Production Milestones</b>																																	
LRIP FY09																																	
FRP FY 10																																	
Deliveries (N85)																																	

**RAMICS ONLY**



**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>				PROJECT NUMBER AND NAME <b>4026 - C4I, Tactics, and Mission Planning</b>						
COST (\$ in Millions)		Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Project Cost		<b>1.234</b>	<b>1.793</b>	<b>2.289</b>	<b>3.793</b>	<b>2.802</b>						
RDT&E Articles Qty												
<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>The C4I, Tactics, Mission Planning, and Post-Mission Analysis (CTMP) 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 a common post-mission analysis tool for "Next Generation" systems. This program was previously funded under PE-0603502N, project 1233.</p>												

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>4026 - C4I, Tactics, and Mission Planning</b>

**(U) B. Accomplishments/Planned Program**

<b>Product Development</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.927	0.546	1.175	0.760
RDT&E Articles Quantity				

Hardware/Software Development:  
 OPTPLAN for Q-20 and ALMDS  
 Code core OPMA module  
 Code system-specific OPMA Modules

<b>Support</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.632	1.552	2.455	1.879
RDT&E Articles Quantity				

Engineering Services/ILS:  
 MIW Commander's Handbook  
 OAMCM Tactics Continuum materials  
 Reachback Support for tactical employment of OAMCM systems  
 Incorporate tactics lessons learned into TACMEMOs  
 ILS planning for OPMA

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>4026 - C4I, Tactics, and Mission Planning</b>

**(U) B. Accomplishments/Planned Program**

<b>Test and Evaluation</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.040	0.000	0.000
RDT&E Articles Quantity				

T&E Support for MEDAL/PMA integration during WSIT CT and DT

<b>Management</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.234	0.151	0.163	0.163
RDT&E Articles Quantity				

Field Activity program management and travel  
MEDAL contractor management support to CTMP

<b>Total</b>	<b>1.793</b>	<b>2.289</b>	<b>3.793</b>	<b>2.802</b>
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**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>			PROJECT NUMBER AND NAME <b>4026 - C4I, Tactics, and Mission Planning</b>					
<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
424800,S0090, OPMA	0.000	0.000	0.256	0.256						
<b>(U) 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. Development of OAMCM-system-specific MEDAL modules will be performed by SAIC, McLean, VA. This effort will include post-test updates for the system-specific MEDAL modules to allow transition to a Fleet release. 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>										

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N / BA-5			0604373N Airborne Mine Countermeasures			4026 - C4I, Tactics, and Mission Planning								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	RX	SAIC	0.082	0.405	05/06	0.055	10/06	0.714	11/07	0.250	11/08	Continuing	Continuing	
Hardware/Software Development	WX	NSWC, PC	0.520	0.522	10/05	0.491	10/06	0.461	10/07	0.510	10/08	Continuing	Continuing	
Subtotal Product Development			0.602	0.927		0.546		1.175		0.760		Continuing	Continuing	
Remarks:														
Engineering Services	WX	NAVO				0.015	10/06	0.015	10/07	0.015	10/08	Continuing	Continuing	
Engineering Services	VAR	Various	0.002	0.022	10/05	0.399	10/06	0.137	10/07	0.172	10/08	Continuing	Continuing	
Engineering Services	WX	NSWC, PC	0.408	0.409	10/05	0.496	10/06	1.085	10/07	0.851	10/08	Continuing	Continuing	
Engineering Services	RX	TBD				0.240	11/06	0.339	11/07	0.369	11/08	Continuing	Continuing	
Engineering Services	RX	SAIC				0.181	11/06	0.409	11/07	0.150	11/08	Continuing	Continuing	
ILS	WX	NSWC, PC		0.201	10/05	0.221	10/06	0.470	10/07	0.322	10/08	Continuing	Continuing	
Subtotal Support			0.410	0.632		1.552		2.455		1.879		Continuing	Continuing	
Remarks:														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N / BA-5			0604373N Airborne Mine Countermeasures				4026 - C4I, Tactics, and Mission Planning							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total P Y s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Test and Evaluation	WX	NSWC, PC				0.040	10/06					Continuing	Continuing	
Subtotal T&E			0.000	0.000		0.040		0.000		0.000		Continuing	Continuing	
Remarks:														
Management Support	WX	NSWC, PC	0.202	0.214	10/05	0.131	10/06	0.140	10/07	0.140	10/08	Continuing	Continuing	
Management Support	RX	SAIC	0.020	0.020	05/06	0.020	11/06	0.023	11/07	0.023	11/08	Continuing	Continuing	
Subtotal Management			0.222	0.234		0.151		0.163		0.163		Continuing	Continuing	
Remarks:														
Total Cost			1.234	1.793		2.289		3.793		2.802		Continuing	Continuing	
Remarks:														

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE: <b>February 2007</b>												
APPROPRIATION/BUDGET ACTIVITY								PROGRAM ELEMENT NUMBER AND NAME								PROJECT NUMBER AND NAME																				
RDT&E, N / <b>BA-5</b>								0604373N Airborne Mine Countermeasures								4026 - C4I, Tactics, and Mission Planning																				
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
<b>MEDAL</b>	AMNS POST-FAT FIXES CONVERT ALMDS PERF. MODEL TO MODULE RE-STRUCTURE Q-20 PERF. DATA OPTPLAN				Training development AMNS, OASIS, Q-20				Training development ALMDS				Training development RAMICS																							
<b>Organic PMA</b>	OAMCM S/W development								Ongoing development for OAMCM P3I; software support																											
	AN/AQS-20A S/W																																			
	OASIS S/W																																			
					ALMDS S/W																															
									AMNS S/W																											
													RAMICS S/W																							
<b>Tactics &amp; Databases</b>																																				
OAMCM Environmental Data Report	△																																			
Incorporate DT/OT Lessons Learned into TACMEMO									Q-20				ALMDS				AMNS				RAMICS															
Reachback support OAMCM																																				
Establish Gear and Mine Database for OAMCM																																				
Update Gear and Mine Database for OAMCM P3I																																				
MIW Tactics Continuum Update									△				△																							



**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2007</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>				PROJECT NUMBER AND NAME <b>9179 Surface Navy Integrated Undersea Tactical Technology</b>					
COST (\$ in Millions)	Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Project Cost	<b>5.138</b>	<b>0.000</b>	<b>0.000</b>	<b>0.567</b>	<b>0.671</b>						
RDT&E Articles Qty											
<b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>											
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 module for a LAN-based Surface Network Embedded Analysis and Tactical Trainer (SNEATT).											

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA -5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>9179 Surface Navy Integrated Undersea Tactical Technology</b>

**B. Accomplishments/Planned Program**

<b>Product Development</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.477	0.558
RDT&E Articles Quantity				

Development of an AN/SQQ-32, AN/AQS-14, AN/AQS-24 and AN/AQS-20A sensor training module for a LAN-based Surface Network Embedded Analysis and Tactical Trainer (SNEATT). Also development of a Scenario Generator software system for REMUS for mine like contact recognition training

<b>Support</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.090	0.113
RDT&E Articles Quantity				

SNIUTT In-Service Engineering Agent (ISEA) and development support is provided by Naval Surface Warfare Center, Panama City (NSWC PC).

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA -5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>9179 Surface Navy Integrated Undersea Tactical Technology</b>

**B. Accomplishments/Planned Program**

<b>Test and Evaluation</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Quantity				

<b>Management</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Quantity				

<b>Total</b>	<b>0.000</b>	<b>0.000</b>	<b>0.567</b>	<b>0.671</b>
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**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>			PROJECT NUMBER AND NAME <b>9179 Surface Navy Integrated Undersea Tactical Technology</b>					
<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
424800,S0091, SNIUTT	0.000	0.000	0.120	0.120						
<b>(U) D. ACQUISITION STRATEGY:</b>										
<p>Surface Navy Integrated Undersea Tactical Technology (SNIUTT) has been used to develop an AN/SQQ-32, AN/AQS-14, AN/AQS-24 and AN/AQS-20A sensor training modules for a LAN-based Surface Network Embedded Analysis and Tactical Trainer (SNEATT). Funds will continue to support training for these four sonar systems, as well as training for the REMUS sonar 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.</p>										

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)											DATE: <b>February 2007</b>			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
<b>RDT&amp;E, N / BA-5</b>			<b>0604373N Airborne Mine Countermeasures</b>					<b>9179 Surface Navy Integrated Undersea Tactical Technology (SNIUTT)</b>						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	C/CPFF	AAC, Ronkonkoma, NY	4.239					0.477	10/07	0.558	10/08	Continuing	Continuing	
Hardware/Software Development	WX	NSWC, PC	0.000											
Subtotal Product Development			4.239	0.000		0.000		0.477		0.558				5.274
Remarks:														
Development Support	WX	NSWC, PC	0.899					0.090	10/07	0.113	10/08	Continuing	Continuing	
Software Development														
Training Development														
Integrated Logistics Support														
Configuration Management														
Technical Data														
GFE														
Award Fees														
Subtotal Support			0.899	0.000		0.000		0.090		0.113				1.102
Remarks:														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)												DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
<b>RDT&amp;E, N / BA-5</b>			<b>0604373N Airborne Mine Countermeasures</b>					<b>9179 Surface Navy Integrated Undersea Tactical Technology (SNIUTT)</b>						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E			0.000	0.000		0.000		0.000		0.000			0.000	
Remarks:														
Subtotal Management			0.000	0.000		0.000		0.000		0.000			0.000	
Remarks:														
Total Cost			5.138	0.000		0.000		0.567		0.671			6.376	

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE: <b>February 2007</b>												
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>								PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>								PROJECT NUMBER AND NAME <b>9179 Surface Navy Integrated Undersea Tactical Technology (SNI</b>																				
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
<b>AN/AQS-14</b>									AN/AQS-14 Level 1A and 1B training software maintenance and support																											
<b>AN/AQS-24</b>									AN/AQS-24 Level 1A training software maintenance and support																											
<b>AN/SQQ-32</b>									AN/SQQ-32 Level 1A training software maintenance and support																											
<b>AN/AQS-20A</b>									AN/AQS-20A Level 1A and 1B training software maintenance and support																											
<b>Remus</b>									Remus development of level 1A training																											
									Remus development of level 1B training																											
									Remus development of Scenario Generator training																											
									REMUS Level 1A, 1B and Secenario Generator software maintenance and support																											



**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification									DATE: <b>February 2007</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604373N/Airborne Mine Countermeasures</b>				PROJECT NUMBER AND NAME <b>9999 Congressional Add</b>						
COST (\$ in Millions)		Prior Years Cost	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	Total Program
Project Cost				<b>2.690</b>								<b>2.690</b>
RDT&E Articles Qty												

**(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

Congressional Plus-up - AMCM Open Architecture Technology - In support of Airborne Mine Countermeasure (AMCM) systems this initiative will provide open systems migration of unique military standard sensors, electronics, and software system components to lower cost/higher performance commercial equivalent capabilities. This effort will develop and an accelerate Open Architecture Multi-static Technology Insertion solution for the Navy's Airborne Mine Countermeasures Program. The anticipated result is lower cost/higher performance equivalent capabilities based on open architecture software and hardware components.

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2007</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N , BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604373N Airborne Mine Countermeasures</b>	PROJECT NUMBER AND NAME <b>9A39N AMCM Open Architecture</b>

**B. Accomplishments/Planned Program**

Product Development	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost		2.690		
RDT&E Articles Quantity				

Development and integration of the AMCM Systems.

Support	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				