CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justificatio	n						DATE:			
-								Febru	uary 2004	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NO	MENCLATURE				
RESEARCH DEVELOPMENT TEST & EVAL	UATION, NAVY /	BA-5			0604373N Ai	irborne Mine	Counterme			
	Prior									Total
COST (\$ in Millions)	Years Cost	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Total PE Cost	298.742	73.600	90.981	50.514	25.807	18.138	11.351	3.908		573.04
Airbone Mine Hunt System / 0529	172.164	16.508	18.461	4.798	3.420	4.807	3.406	0.805		224.369
ALMDS / 2047	53.263	17.787	10.670	3.541	7.503	11.775	6.579	1.795		112.913
OASIS / 2427/2883*	25.435	13.762	14.625	11.215	0.773					65.810
AMNS / 2473	47.880	21.851	47.225	29.671	12.288					158.91
C4I, Tactics and Mission Planning / 4026				1.289	1.823	1.556	1.366	1.308		7.342
SNIUTT / 9179		3.692								3.692
Quantity of RDT&E Articles	3	2	1	5						11

^{*} FY03 Congressional Add: Remote Technical Assistant Support System (RTASS); FY04 Congressional Adds: RAMICS and AQS-20

(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 Carrier Strike Group/Expeditionary Strike Group (CSG/ESG) beginning in Calendar Year 2005. 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.

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification				DATE:
				February 2004
APPROPRIATION/BUDGET ACTIVITY		F	R-1 ITEM NOMENCLAT	URE
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5		C	0604373N Airborne N	line Countermeasures
(U) B. PROGRAM CHANGE SUMMARY:				
(U) B. PROGRAM CHANGE SUMMARY:	FY 2003	FY 2004	FY 2005	
Previous President's Budget PB-04	73.728	88.514	49.954	
Current President's Budget PB-05	73.600	90.981	50.514	
Total Adjustments	(0.128)	2.467	0.560	
Summary of Adjustment				
Congressional Add		3.500		
SBIR/STTR Tansfer				
Misc Adjustments	(.128)	(1.033)	.560	
	(.128)	2.467	.560	

Schedule: Acquisition Strategy for the Organic Airborne Mine Countermeasure (OAMCM) programs has changed in order to reflect restructuring to integrate the MH-60S assets availability to support testing. AN/AQS-20A. In response to a delay in a test ready MH-60S (deployment platform) and expansion of test/integration requirements, from PB04, the program schedule has been modified to incorporate platform of oportunity (MH-53) CT & DT testing during FY03 through early FY04 to mitigate impacts of MH-60S DT and MH-60S DT and MH-60S DT testing will be conducted during FY04 and completed in FY05 in support of acheiving a scheduled FY05 FRPD and IOC. ALMDS Following Congressional reduction of FY04 procurement units, MH-60S Developmental Testing (DT) is scheduled for FY04 and Operational Testing (OT) is on schedule for FY05. MS C and LRIP decision is scheduled for early FY05 to support IOC. A revised Acquisition Program Baseline is currently in route with updated schedule parameters. OASIS The program is currently in the SD&D phase where three engineering development models (EDMs) will be developed for test and evaluation. Production is planned for FY06 thru FY10 to meet the inventory requirement of 44 units over a five-year period. AMNS will provide the MH-60S with the capability to neutralize bottom and moored mines using an airborne delivered expendable mine neutralization device. The AMNS is being tested on the MH-53E to prove out the neutralization effectiveness. The system will also be deployed from the MH-60S helicopter and will provide organic airborne mine defense for Carrier Strike Groups (CSG) and Expetionary Strike Groups (ESG). This capability will be of critical importance in littoral zones, confined straits, choke points, and the Amphibious Objective Area (AOA). RAMICS The system will be deployed from the MH-60S helicopter and will provide organic airborne mine defense for Carrier Strike Groups (CSG) and Expetionary Strike Groups (ESG). This capability will be of critical importance in littoral zones, conf

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2004	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT	NUMB	ER AND NAM	IE	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N/Ai	rborne Mine Count	ermeas	sures		ne Mine Hunt	Systems				
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 20	003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost	172.164	1	6.508	18.461	4.798	3.420	4.807	3.406	0.805	0.000	224.369
RDT&E Articles Qty	3						· · · · · · · · · · · · · · · · · · ·				3

(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 densitiy 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 minehunting sonar component for the Remote Minehunting System (RMS). The AN/AQS-20A will be developed to meet the requirements of the Organic MCM platforms. Note: The AN/AQS-20/X nomenclature designation to AN/AQS-20A was approved May 02.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N, BA-5	0604373N Airborne Mine Countermeasures	0529 Airborne Mine Hun	t Systems

B. Accomplishments/Planned Program

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	6.097	4.469	0.581
RDT&E Articles Quantity			

Complete EDM fabrication, including incorporation of Electro-Optic Identification (EOID) sensor capabilities. Conduct EDM testing with maintainability requirements also refurb EDMs. Acquire EOID test units.

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	9.851	13.232	3.657
RDT&E Articles Quantity			

Continued integration of towed body with MH-60S console and parallel towed body/MH-60S Console hardware-software integration and testing.

Conduct MH-60S DT and begin OT. Continue interface/integration with MH-60S, C4I Interface and MEDAL. Continue development of ILS & supportability products, training materials. Conduct single-site (alternative site) CAD/CAC testing and initiate CAIDC.

Conduct parallel MH-60S Console test and common console/Aircraft Integration. Conduct platform of opportunity (MH-53) testing, i.e, CT, DT, AUTEC Tests in addition to WSIT CT and AFCS.

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.560	0.760	0.560
RDT&E Articles Quantity			
Total	16 508	18 461	4 708

Support completion of MH-60S OT events. Develop documentation in support of FRPDR. Continue development of ILS & supportability products and engineering suppport. Finalize documentation in support of MS-C requirements.

R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:								
								February 2004						
APPROPRIATION/BUDGET ACTIVITY		PROGRAM E	LEMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND N	AME						
RDT&E, N, BA-5		0604373N A	irborne Mine	Countermea	asures	0529 Airbor	ne Mine Hun	t Systems						
(U) D. OTHER PROGRAM FUNDING SUMMARY:									То	Total				
<u>Line Item No. & Name</u> 424800 OPN	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost				
AQS-20 AQS-20A	22.864	13.061		47.950	25.493	64.251	61.200	50.810	CONT.	CONT.				

(U) E. ACQUISITION STRATEGY: *

Procure two (2) AN/AQS-20 towed bodies in FY02 to be modified to AN/AQS-20A units. Upon successful completion of DT and MS C, Sole Source MH-60S systems procurement will begin in FY05 with a Full Rate Procurement contract following a Full Rate Production Decision Review (FRPDR).

(U) F. MAJOR PERFORMERS: **

Raytheon Corp, Portsmouth, RI - Prime development contractor. Software and hardware developer for AN/AQS-20A towed body and integration with MH-60S platform.

Arete Corp, Tucson, Arizona - Major Subcontractor to Raytheon Corp. Responsible for design and development of Electro-Optic Identification (EOID) capability within AN/AQS-20A towed body.

CSS Panama City, FI. - Technical Design Agent. Provide AN/AQS-20A system design, development, integration and contractor oversight; ensure operational requirements are satisfied during all SD&D test events.

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	e 1)							5,112.		February 20	04	
APPROPRIATION/BUDGET ACTIVI		PROGRAM E	LEMENT			PROJECT NU	JMBER AND N	NAME				
RDT&E, N / BA-5		0604373N A	irborne Mine	Countermea	asures	0529 Airbor	ne Mine Hun	t Systems				
Cost Categories	Contract	Performing	Total		FY 03		FY 04	T	FY 05			
	Method	Activity &	_	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Hardware/Software Development	SS/CPIF	Raytheon, Portsmouth, RI	15.834	6.097	10/02	4.469	10/03	0.581	10/04	4.235	31.216	
Hardware/Software Development	C/CPFF	Raytheon, Portsmouth, RI	60.150								60.150	
Hardware/Software Development	WR	CSS Panama City, FL	4.966							0.630	5.596	;
Hardware/Software Development	C/FP	Northrop, Grumman	4.572								4.572	
											0.000)
											0.000)
											0.000	
											0.000	
						1		1			0.000	
						1		1			0.000	
											0.000	
Subtotal Product Development			85.522	6.097		4.469	1	0.581		4.865		
	1						1					1
Remarks:												
. tomanie												
Engineering Services	WR	CSS Panama City, FL	22.003	2.276	10/02	4.100	10/03	1.567	10/04	0.520	30.466	

Engineering Services	WR	CSS Panama City, FL	22.003	2.276	10/02	4.100	10/03	1.567	10/04	0.520	30.466	
Engineering Services	C/CPFF	Raytheon, Portsmouth, RI	1.500	0.500	10/02	1.286	01/04				3.286	
Engineering Services	VAR	Various	49.889	1.908	10/02	1.757	10/03	0.250	10/04		53.804	
Engineering Services	SS/CPIF	Raytheon, Portsmouth, RI	1.941			1.323	10/03	0.300	10/04	1.600	5.164	
											0.000	
ILS Functions	WR	CSS Panama City, FL	4.269	0.600	10/02	0.900	10/03		10/04	0.607	6.376	
ILS Functions	SS/CPIF	Raytheon, Portsmouth, RI	0.326	0.500	10/02					1.480	2.306	
ILS Functions	VAR	Various	0.736					0.700	10/04		1.436	
Subtotal Support			80.664	5.784		9.366		2.817		4.207	102.838	

Remarks:

CLASSIFICATION:

											DATE:				
Exhibit R-3 Cost Anal	vsis (page 2	2)									D. (12.		February 200)4	
APPROPRIATION/BUDG			PROGRAM E	LEMENT	-				PROJECT NU	MBER AND N	IAME			· -	
RDT&E, N /	BA-5 Contract Method Activity & Location	0604373N A	irborne	Mine	Count	ermea	sures	0529 Airbori	ne Mine Hun	t Systems					
Cost Categories		ontract	Performing	Total				FY 03		FY 04		FY 05			
				PY s		FY 03		Award		Award		Award	Cost to	Total	Target Value
				Cost		Cost		Date		Date		Date	Complete		of Contract
T&E Functions				1	3.397		3.367	10/02	3.104	10/03	0.400	10/04	0.500		
T&E Functions			Raytheon, Portsmouth, RI		0.422				0.562	10/03	0.300	10/04	1.250		
T&E Functions	V	'AR	Various		0.543		0.700	10/02	0.200	10/03	0.140	10/04		1.583	
														0.000	
														0.000	
														0.000	
														0.000	
Subtotal T&E					4.362		4.067		3.866		0.840		1.750	14.885	
Management Support					1.287		0.500	10/02	0.700	10/03	0.500	10/04	1.390	4.377	
Travel					0.329		0.060	10/02	0.060	10/03	0.060	10/04	0.226	0.735	
														0.000	
														0.000	
														0.000	
														0.000	
Subtotal Management					1.616		0.560		0.760		0.560		1.616	5.112	
Remarks:															
Total Cost				1	72.164		16.508		18.461		4.798		12.438	224.369	
Remarks:															

CLASSIFICATION:

EXHIBIT R4, Schedule Profile												OGRAM ELEMENT NUMBER AND NAME												DATE: February 2004 PROJECT NUMBER AND NAME										
APPROPRIATION/BUDGET ACTIVITY					PROG	SRAM	ELEME	ENT N	UMBE	R AND	NAM	E													,									
RDT&E, N / BA-5	1				0604	373N	Airbo	rne M	ine C	ounte	rmea	sures					0529	Airbo	rne N	/line H	lunt S	Syste	ems											
Fiscal Year		20	03			20	04			200	05			20	06			20	07			2	2008			20	009							
	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		FRF	P 100	;																				
SD&D Phase																																		
EDMs Delivery		Δ		Δ																														
Software Delivery V 5.X SW Delivery			Fi	nal De	livery																													
Test & Evaluation Milestones					СТ	MH-53I Sys D	Ξ.	MI In																										
Development Test Operational Test				V		$\nabla\nabla$		7	7 5		1H-605 OT																							
Production Milestones																																		
LRIP I FY 05												AN/	AQS-2	0A LR	IP & Pr	oduct	ion Mi	H 60S				1	Ч_					$oldsymbol{ol}}}}}}}}}}}}}}}}}}$						
FRP FY 06										L								Г	I	ı	I	1						\coprod						
																					AN/AC	QS-20	DA Del	veries		1	ı							
	+																					1		+				+-						
Deliveries																		2	1	1	1	1	2	1	1	1	2	2						

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		0.4
ADDROUDING TO MAD OF THE ACTIVITY	Innoonate	ENTENT			IDDO IDOT NII		February 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI		_			IMBER AND N		
RDT&E, BA-5	0604373N A		Countermea			ne Mine Hunt		
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Software Delivery V5.X								
SDCT Dry Run SDCT Conduct								
SDCT Conduct		3Q						
EDM Delivery		2Q-4Q						
Contractor Test			1Q					
MH-53E System DT			2Q					
MH-60S Int. DT			4Q					
Milestone C (MS C)				2Q				
MH-60S OT				2Q-3Q				
AN/AQS-20A Low Rate Initial Production (LRIP) Decision				2Q				
AN/AQS-20A Full Rate Production (FRP) Decision					1Q			
IOC					1Q			
AN/AQS-20A Full Rate Production (FRP) Start					1Q			

R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2004	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	IE	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N A	Airborne Mir	ne Countern	easures		2047 Airboi	ne Laser M	ine Detection	n System		
	Prior										Total
COST (\$ in Millions)	Years Cost		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost	50.000		4= =0=	40.070	0.544		44 ===	0.550	4 705		440.040
Project Cost	53.263		17.787	10.670	3.541	7.503	11.775	6.579	1.795	0.000	112.913
DDT05 A // L O/	_										_
RDT&E Articles Qty	3										3

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

The Airborne Laser Mine Detection System (ALMDS), designation AN/AES-1, is a non-acoustic Airborne Mine Countermeasures (AMCM) high area coverage system that detects, classifies, and localizes floating, drifting, and near-surface moored sea mines. The system is deployed from the MH-60S helicopter and will provide organic airborne mine defense for the Carrier Strike Groups (CSG) and Expetionary Strike Groups (ESG). The system represents a capability that does not exist in the current Mine Countermeasures (MCM) inventory.

CLASSIFICATION:

	stification			DATE: February	2004
ROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	BER AND NAME	PROJECT NUMBER AND N		
Γ&E, N / BA-5	0604373N Airborne Mine	Countermeasures	2047 Airborne Laser Min	e Detection System	
3. Accomplishments/Planned Progra	am.				
5. Accomplishments/Flaniled Frogra					
		FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost		7.724	4.763	1.329	
RDT&E Articles Quantity					
EDM development, fabrication, softwar		.			
	MH-60 S Interface, C4I Interface, and MEDA	AL.			
Prepare for FRPDR refurbish EDM uni	iS.				
		E)/ 00			
A a a a maralia hara a mata /Effa mt/C hata ta l. C. a at		FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost		1.427	1.030	0.198	
RDT&E Articles Quantity					
	ery of Technical Data Package				
	ance and technical review of CDRLs.				
Integrated Logistics Support and delive Continue to monitor contractor perform	ance and technical review of CDRLs.				
	ance and technical review of CDRLs.				
	nance and technical review of CDRLs.				
	nance and technical review of CDRLs.				
	nance and technical review of CDRLs.	FY 03	FY 04	FY 05	
Continue to monitor contractor perform		FY 03 8 636	FY 04 4 877	FY 05 2 014	
Continue to monitor contractor perform Accomplishments/Effort/Subtotal Cost		FY 03 8.636	FY 04 4.877	FY 05 2.014	
Continue to monitor contractor perform Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity		8.636	4.877	2.014	
Continue to monitor contractor perform Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity Total		8.636 17.787			
Continue to monitor contractor perform Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity Total		8.636 17.787	4.877	2.014	

R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

	.,									Februa	ary 2004	
APPROPRIATION/BUDGE	T ACTIVITY		PROGRAM EL	EMENT NUM	IBER AND NAM	ИE	PROJECT NU	MBER AND N	AME			
RDT&E, N /	BA-5		0604373N Ai	rborne Mine	e Counterme	asures	2047 Airbor	ne Laser Min	ne Detection	System		
(U) D. OTHER PRO	GRAM FUNDING SUMMARY:	1								To	Total	
Line Item No. & No.	<u>ame</u>	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost	
424800 OPN		0.000	0.000	0.000	21.307	23.304	52.267	53.524	66.569	0.000	216.971	

(U) E. ACQUISITION STRATEGY: *

EXHIBIT R-2a, RDT&E Project Justification

In April 2000, the ALMDS program received MS II approval to enter the Engineering and Manufacturing Development (E&MD) phase. Northrop Grumman won the competitively awarded E&MD contract.

The ALMDS E&MD contract with Northrop Grumman has 3 types of incentives: schedule incentive for early delivery of EDM units; technical incentive for performance reliability and maintainability; and a cost incentive - a cost sharing percentage both for an overrun and an underrun. Successful completion of DT-IIB, on an alternate platform (SH-60F), will support a Low-Rate Initial Production (LRIP) decision, which will be an option to the current E&MD contract. After a successful OPEVAL on the intended deployment platform (MH-60S), Full-Rate Production will begin. The first full-rate production lot will be an option to the current E&MD contract to prove out the producibility of the system. The remaining 38 production units will be awarded after a full and open competition.

(U) F. MAJOR PERFORMERS: **

Northrop Grumman, Melbourne, FL - Prime Contractor for Engineering, Manufacture Development, awarded 4/00. Costal Systems Station, Panama City, FL - Technical Direction Agent

R-1 SHOPPING LIST - Item No. 107

DATE:

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	ge 1)									February 200	04	
APPROPRIATION/BUDGET ACTIV	ITY	PROGRAM E	LEMENT			PROJECT NU	JMBER AND I	NAME				
RDT&E, N / BA-5		0604373N	Airborne Mi	ne Counteri	neasures	2047 Airbo	rne Laser I	Mine Detection	on System			
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			
	Method	Activity &		FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Hardware/Software Development	WR	CSS, Panama City	0.465	0.050	10/02	0.190	10/03				0.705	,
Hardware/Software Development	RCP	CSS, (Prime Contractor)	19.086	1.500	10/02	1.500	10/03			4.804	26.890	,
Hardware/Software Development	RCP	Metron	0.625								0.625	,
Hardware/Software Development	RCP	SAIC		0.200	10/02						0.200	,
Hardware/Software Development											0.000	,
											0.000	,
											0.000	,
											0.000	,
											0.000	,
											0.000	,
											0.000	,
Subtotal Product Development			20.176	1.750		1.690		0.000		4.804	28.420	,
Remarks:												

Engineering Services	WR	CSS, Panama City	7.441	1.008	10/02	0.702	10/03	0.252	10/04	3.760	13.163	
Engineering Services	RCP	CSS, (Prime Contractor)	9.632	0.898	10/02					3.195	13.725	
Engineering Services	VAR	Various	4.080	2.204	10/02	1.491	10/03	0.629	10/04	5.017	13.421	
Engineering Services	RCP	Various	2.871	0.251	10/02	0.200	10/03	0.050	10/04	1.100	4.472	
ILS Functions	WR	CSS, Panama City	1.097	0.249	10/02	0.225	10/03	0.045	10/04		1.616	
ILS Functions	RCP	CSS, (Prime Contractor)	4.405	1.078	10/02	0.730	10/03	0.103	10/04	0.500	6.816	
ILS Functions	VAR	Various/NRL Stennin	1.062								1.062	
ILS Functions	RCP	CSS, Panama City		0.100	10/02	0.075		0.050	10/04		0.225	
Subtotal Support			30.588	5.788		3.423		1.129		13.572	54.500	•

Remarks:

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis	(page 2)										February 200	04	
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM E					PROJECT NU				-		
RDT&E, N / BA-	5	0604373N	Airborne	Mine Co					Mine Detection				
Cost Categories	Contract	Performing	Total			FY 03		FY 04		FY 05			
	Method	Activity &	PY s	FY 03		Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost		Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Testing and Evaluation	RCP	CSS, (Prime Contractor)		800	5.249	10/02	1.671	10/03	0.215		3.456		
Testing and Evaluation	WR	CSS, Panama City		199	2.787	10/02	2.806	10/03	1.617	10/04	3.300	10.709	
Testing and Evaluation	VAR	Various	0.0	392								0.392	
Testing and Evaluation	RCP	CSS, Panama City			0.600	10/02	0.400	10/03	0.150	10/04	0.200		
												0.000	
												0.000	
												0.000	
Subtotal T&E			1.	599	8.636		4.877		1.982		6.956	24.050	
Management Support		Travel	0.	200	0.030	10/02	0.050	10/03	0.030	10/04	0.180	0.490	
Management Support	VAR	Various	0.	700	0.700	10/02	0.310	10/03	0.180	10/04	1.100	2.990	
Management Support	RCP	CSS, (Prime Contractor)			0.579	10/02	0.000	10/03			0.800	1.379	
Management Support	WR	CSS, Panama City			0.304	10/02	0.320	10/03	0.220	10/04	0.240	1.084	
												0.000	
												0.000	
Subtotal Management			0.	900	1.613		0.680		0.430		2.320	5.943	
Remarks:													
Total Cost			53.	263	17.787		10.670		3.541		27.652	112.913	
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																					DATE	:	F	ebrua	ary 20	004		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5										R AND								ECT N Airbo										
Fiscal Year		20	03			200				200				20	06			200					08	- ,		200)9	
	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								-	vis c <u></u>		FRF		IOC															
Fabrication			E	DM Un	its —					LRI	P Units	;								DT-	-IIA SW) —	C						
System Development									PCA	PR	R 7					VSW	Devel	opmen	t			(VS	svv)					ſ
Production Awards								Р	Relea roducti R		FF	RP Awa	ard															
Test & Evaluation Milestones Contractor Test Development Test Operational Test		CT- (SH-6	IIIA C		DT-IIB (SH-60)F)	IIA IS)	DT-II((MH-6	60S)]	DPEVA	L (MH-	-60S)															
Production Milestones																												
LRIP FY 05									LRIP	 																		i
FRP FY 06												4		 RP 1 S	Start			 RP 2 St	tart		<u></u> √F4	I RP 3 S	l Start		F	 RP 4 S	tart	Ī
Deliveries													▲ LR	IP (4)		_	FRF	² 1 (4)		_		FRP	2 (11)			FRP 3	3 (11)	

 $^{^{\}star}$ Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						l	February 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N		
RDT&BA-5	0604373N A	irborne Mine	Counterme	asures	2047 Airbor	ne Laser Min	e Detection	System
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
EDM Fabrication		1Q						
Milestone C (MS C)				1Q				
Contractor Testing (CT-IIA - SH-60F)		3Q-4Q						
Developmental Testing (DT-IIA - MH-60S)			2Q					
Developmental Testing (DT-IIB/OA - SH-60F)			1Q					
Developmental Testing (DT-IIC - MH-60S)			4Q					
Start Low-Rate Initial Production I (LRIP I)				1Q				
Physical Configuration Audit				1Q				
Operational Testing (OPEVAL - MH-60S)				Q1 - Q2				
Preproduction Readiness Review (PRR)				2Q				
Full Rate Production (FRP) Decision				4Q				
Low-Rate Initial Production I Delivery					1Q - 2Q			
IOC					1Q			
Full Rate Production Start (FRP 1)					1Q			
Full Rate Production Start (FRP 2)						1Q		
Full Rate Production Delivery (FRP 1)						1Q - 3Q		
Full Rate Production Start (FRP 3)							1Q	
Full Rate Production Delivery (FRP 2)							1Q - 4Q	
Full Rate Production Start (FRP 4)								1Q
Full Rate Production Delivery (FRP 3)								1Q - 4Q

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:			
								Febru	uary 2004	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT N	UMBER AND NAI	ЛE	PROJECT NU	IMBER AND N	AME			
RDT&E, N / BA-5	0604373N A	Airborne Mine Coun	ermeasures		2427/2883	Organic Airl	borne and S	urface Influ	ience Sweep	
	Prior									Total
COST (\$ in Millions)	Years Cost	FY 200	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost	25.435	13.	762 14.625	11.215	0.773	0.000	0.000	0.000	0.000	65.810
RDT&E Articles Qty				3						3

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

The OASIS system is a towed Minesweeping System that is deployed from specially configured MH-60S helicopters or surface craft in support of the Carrier Strike Groups (CSG) and Expetionary Strike Groups (ESG). The system provides a rapid response sweeping capability against bottom and moored, 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, a magnetic/acoustic influence capability, a control/monitoring system under software control and interfaces to the helicopter 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) will be developed for test and evaluation. Production is planned for FY06 thru FY10 to meet the inventory requirement of 44 units over a five-year period.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604373N Airborne Mine Countermeasures	2427/2883 Organic Airbo	orne and Surface Influence Sweep

B. Accomplishments/Planned Program

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	4.796	1.827	0.969
RDT&E Articles Quantity			

Continue SD&D contract to complete Design, Conduct CDR, Fabricate 3 EDM, and begin to integrate EDMs into platform.

Conduct technical reviews such as PDR, SRDR, and CDR.

Congressional Add. - Investigate development of the RTASS system.

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	7.724	11.433	9.252
RDT&E Articles Quantity			

Conduct technical studies on MHC60S interface and other technical studies.(Cong. add) Conducted remote technical assistance to MCM ship.

Conduct TECHEVAL and prepare for OPEVAL

Conducted shock test and other technical studies.

Conduct studies on C4I Interface and MEDAL.

Conduct engineering and desing work.

	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	1.242	1.365	0.994
RDT&E Articles Quantity			
Total	13.762	14.625	11.215

Monitored Contractor performance and techincal review of CDRLs. Conduct HCDR and PDR.

Continue to monitor Contractor performance and technical review of CDRLs.

Support platform integration.

R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

EXHIBIT R-2a, RDT&	E Project Justification								DATE:			
										Februa	ry 2004	
APPROPRIATION/BUDGE	ET ACTIVITY		PROGRAM E	LEMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND N	AME			
RDT&E, N /	BA-5		0604373N A	irborne Mine	Countermea	asures	2427/2883 O	rganic Airbo	rne and Sur	face Influence	Sweep	
(U) D. OTHER PRO	OGRAM FUNDING SUMMA	RY:										
(-,										То	Total	
Line Item No. & N	<u>lame</u>	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	<u>Complete</u>	Cost	
424800 OPN		0.000	0.000	0.000	0.000	11.003	28.388	29.038	29.632	CONT.	CONT.	
(U) E. ACQUISITION	STRATEGY:											

(U) F. MAJOR PERFORMERS:

EDO Corporation, Amityville, NY. - Production of EDM units, participate in engineering, system integration, and meeting ILS requirements. Coastal Systems Station, Panama City, Fl. - Contributing to ILS, program management, engineering, and system integration.

After Milestone B review in FY02, a SD&D contract was awarded. In FY06, following a successful DT and MS C, procurement options will be exercised.

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page	ge 1)							DATE:		February 200)4	
APPROPRIATION/BUDGET ACTIV	'ITY	PROGRAM E	LEMENT			PROJECT NU	IMBER AND I	NAME		_		
RDT&E, N / BA-5		Airborne N	line Counte	rmeasures/	0604373N	2427/2883 C	rganic Airb	orne and Surf	ace Influenc	ce Sweep		
Cost Categories	Contract Method	Performing Activity &	Total PY s	FY 03	FY 03 Award	FY 04	FY 04 Award	FY 05	FY 05 Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date		Date		Date	Complete	Cost	of Contract
Hardware/Software Development	C/CPFF	EDO Corp.	1.722								1.722	
Hardware/Software Development	C/CPIF	EDO Corp.	2.200	3.845	10/02	1.827	10/03	0.969	10/04	0.000	8.841	
Hardware/Software Development	SS/CPFF	Aeptec Microsystems Inc	5.123	0.775	08/03						5.898	
		Rockville, MD									0.000)
											0.000)
											0.000)
											0.000)
											0.000)
											0.000)
											0.000)
											0.000)
Subtotal Product Development			9.045	4.620	D	1.827		0.969		0.000	16.461	
Remarks:												

Engineering Services	WR	NUWC Keyport	0.483	0.176	06/03						0.659	
Engineering Services	C/CPIF	EDO Corp	3.663	1.993	10/02	4.558	10/03	0.125	10/04		10.339	
Engineering Services	WR	CSS Panama City	5.208	2.003	10/02	0.813	10/03	0.826	10/04	0.367	9.217	
Engineering Services	WR	NSWC Carderock MD	0.725								0.725	
Engineering Services/ILS	VAR	Various	0.548	0.000	10/02		10/03		10/04		0.548	
Engineering Services	PD	ONR	1.367	0.000		2.135	10/03	1.683	10/04	0.100	5.285	
ILS Functions	C/CPIF	EDO Corp	0.732	0.664	10/02	1.023	10/03	1.299	10/04	0.157	3.875	
ILS Functions	WR	CSS Panama City	0.876	0.305	10/02	0.053	10/03	0.125	10/04		1.359	
Subtotal Support			13.602	5.141	•	8.582		4.058	•	0.624	32.007	

Remarks:

CLASSIFICATION:

										DATE:				
Exhibit R-3 Cost Analysis (pa	ne 2)									D7112.		February 200)4	
APPROPRIATION/BUDGET ACTIV			PROGRAM EL	LEMENT				PROJECT NU	MBER AND N	IAME		, , , , , , , , , , , , , , , , , , , ,	· ·	
RDT&E, N / BA-5			0604373N A	Airborne N	/line (Counterr	neasures	2427/2883 O	rganic Airbe	orne and Surf	ace Influen	ce Sweep		
Cost Categories	Contract	Performing		Total			FY 03		FY 04		FY 05			
	Method	Activity &		PY s	FY		Award		Award		Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cos	st	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Test and Evaluation Functions													0.000	
T&E Functions	C/CPIF	EDO Corp				2.659	10/02	1.299	10/03	1.897	10/04		5.855	
T&E Functions	WR	CSS Panama	City, FL	1.18	36	0.100	10/02	1.552	10/03	3.297	10/04		6.135	
T&E Functions	VAR	Various		0.5	54								0.554	
													0.000	
													0.000	
													0.000	
Subtotal T&E				1.7	40	2.759		2.851		5.194		0.000	12.544	
Management Support													0.000	
Management Support	VAR	Various		0.9	13	1.212	10/02	1.365	10/03	0.994	10/04	0.149	4.633	
Management Support		Travel		0.1	35	0.030	10/02		10/03		10/04		0.165	
													0.000	
													0.000	
													0.000	
Subtotal Management				1.0	48	1.242		1.365		0.994		0.149	4.798	
Remarks:														
Total Cost				25.4	35	13.762		14.625		11.215		0.773	65.810	
Remarks:														

CLASSIFICATION:

EXHIBIT R4, Schedul	e Profile																					DATE	:			···· 20	104		
APPROPRIATION/BUDGE	T ACTIVITY					PROG	RAM	FLEM	FNT N	UMRE	R AND	NAM (F					PRO.I	FCT N	LIMBE	RAN	D NAM	IF	Г.	ebrua	ary 20	104		
RDT&E, N /	BA-5					06043																irborn		l Surf	ace In	ıfluen	ce Sw	een	
,																													
Fiscal Year			200	03			20	04			20	05			20	006			200	07			20	800			20	09	
		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		IBR											/		IS C RIP	1						IOC							
System Development			PDR		(DR										Mileston PRR	ie												
EDM OASIS Delivery											Sys 1	ys 2 \triangle	ys 3																
Test & Evaluation Milestones											DT-II			OTRR															
Development Test Operational Test														$\triangle_{\stackrel{\circ}{\sqsubset}}$	PEVAI	<u> </u> - 													
Production Milestones														LRI	P Start		FF	P Star	t										
Deliveries																													

R-1 SHOPPING LIST - Item No. 107

Note: This Program Schedule reflects the revised APB change 1. A Program Deviation Notification letter has been submitted for approval.

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
							ebruary 20	<u>04</u>
APPROPRIATION/BUDGET ACTIVITY		I ELEMENT				IMBER AND N	AME	
RDT&BA-5	0604373N	Airborne Mine	Counterme	asures	2427/2883 C	ASIS		
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Milestone B								
SD&D Contract Award								
System Requirements Design Review								
IBR		1Q						
Preliminary Design Review (PDR)		2Q						
Hardware Critical Design Review			1Q					
Software Critical Design Review			1Q					
EDM System 1 Delivery				2Q				
EDM System 2 Delivery				3Q				
EDM System 3 Delivery				4Q				
DTII Testing				1Q-3Q				
OPEVAL					1Q-2Q			
Milestone C (LRIP)					1Q			
LRIP Contract Award					2Q			
FRP Contract Award						1Q		
Initial Operational Capability							1Q	
Note: This Program Schedule reflects the revised APB of	change 1. A Program	Deviation Notifica	tion letter has	been submitte	d for approval.			
					1			
					1			
					1			
					1			
								1

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2004	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	LEMENT NUME	BER AND NAM	E	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N A	irborne Mine	Countermea	sures		2473 Airbori	ne Mine Neut	ralization Sy	stems		
	Prior										Total
COST (\$ in Millions)	Years Cost		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost	47.880		21.851	47.225	29.671	12.288	0.000	0.000	0.000	0.000	158.915
			AMNS	AMNS	RAMICS						
RDT&E Articles Qty			2	1	2						5

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

The **Airborne Mine Neutralization Systems (AMNS)** research and development effort was restarted in FY97 in Project Q0529 P.E. 0604373N. AMNS will provide the WH-60S with the capability to neutralize bottom and moored mines using an airborne delivered expendable mine neutralization device. The AMNS is being tested on the MH-53E to prove out the neutralization effectiveness. The system will also be deployed from the MH-60S helicopter and will provide organic airborne mine defense for Carrier Strike Groups (CSG) and Expetionary Strike Groups (ESG). This capability will be of critical importance in littoral zones, confined straits, choke points, and the Amphibious Objective Area (AOA).

The Rapid Airborne Mine Clearance System (RAMICS) MIW program began Concept & Technoogy 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 minehunting 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 and components:

- (a) Gun Subsystem (including gun and turret)
- (b) Munition Subsystem MK258 Mod 1 Armor Piercing, Fin Stabilized, Discarding Sabot-Tracer (APFSDS-T)
- (c) Targeting Sensor Subsystem.
- (d) Fire Control Subsystem.
- (e) Software

The system will be deployed from the MH-60S helicopter and will provide organic airborne mine defense for Carrier Strike Groups (CSG) and Expetionary Strike Groups (ESG). 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; Protection/offense against small craft/vehicles; Air to air operations; Very shallow water MCM; Swimmer defense and Torpedo defense; and ASW capabilities, RAMICS received Below Threshold Reprogramming (BTR) in FY03 (\$.6M) and Congressional Add in FY04 (\$2M) for RAMICS ASW capabilities. RAMICS ASW capabilities will provide a reliable rapid response weapon system to effectively defeat large surface, near surface, and underwater targets in the littorals.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604373N Airborne Mine Countermeasures	2473 Airborne Mine Neu	tralization Systems

(U) B. Accomplishments/Planned Program

AMNS	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	11.434	14.368	15.576
RDT&E Articles Quantity	2	1	

FY03 ACCOMPLISHMENTS:

Awarded SD&D contract, initiated design and developed software. Completed MH-53E TECHEVAL.

FY04 PLAN: Continue design, develop software, and integrate aboard MH-60S, conduct 2105 testing and environmental testing. Continue to monitor Contractor performance and technical review of CDRLs.

FY05 PLAN: Prepare documentation for MH-60S contract award (production), conduct contractor test, MH-60S TECHEVAL, initiate MH-60S OPEVAL. Continue to monitor Contractor performance and technical review of CDRLs. Develop program documentation to achieve MS-C.

RAMICS	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	10.417	32.857	14.095
RDT&E Articles Quantity			2
Total	21.851	47.225	29.671

FY03 ACCOMPLISHMENTS:

Conducted Rig and MunitionTests. Continue RAMICS MIW design and development under SD&D contract. Conducted Preliminary Design Review (PDR) in August 2003 and Independent Cost Assessment (ICA) update review in September 2003. Conduct RAMICS ASW capability study, preliminary CONOPs, and drafted Classified Guide.

FY04 PLAN: Continue RAMICS MIW design, development under SD&D contract. Conduct DT-IIA and Critical Design Review (CDR). Start RAMICS ASW capabilities design. Support DODIG audit.

FY05 PLAN: Complete RAMICS design, develop, and fabrication of Engineering Development Models (EDMs). Complete Contractor's Testing (CT) and initiate Technical Evaluation (TECHEVAL).

R-1 SHOPPING LIST - Item No.

107

Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, page 25 of 48)

CLASSIFICATION:

EXHIBIT R-2a, RDT&E	Project Justification							DATE:			
									Februa	ry 2004	
APPROPRIATION/BUDGE	T ACTIVITY	PROGRAM EI	LEMENT NUV	IBER AND NAN	ИΕ	PROJECT NU	IMBER AND N	AME			
RDT&E, N /	BA-5	0604373N A	irborne Mine	e Counterme	asures	2473 Airbor	ne Mine Neu	tralization S	ystem		
Line Item No. & Na	GRAM FUNDING SUMMARY:	<u>FY 2003</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To <u>Complete</u>	Total <u>Cost</u>	
AMNS 424800 OPN		2.594	0.000	0.000	4.350	11.204	14.911	17.103	CONT.	CONT.	
AMNS 422500 WPN		0.720	0.000	0.000	2.845	7.145	3.843	3.918	CONT.	CONT.	

(U) E. ACQUISITION STRATEGY: *

Procurement for seven (7) MH-53E system in FY03 as a Rapid Deployment Capability (RDC). In FY06, following a successful DT and MS-C, an LRIP award is planned for two (2) MH-60S systems. FRPDR is planned for FY06. Full and open competition is planned for the AMNS (MH-60S) FRP contract.

(U) F. MAJOR PERFORMERS: **

Lockheed Martin Corporation (Ocean, Radar, & Sensor Systems) Syracuse, NY Modification and fabrication of a non-developmental item (NDI) AMNS prototype system and the design, construction, and integration of AMNS equipment into the MH-53E helicopter Actual OTA Award: 12/98 Actual Production RDC Contract Award: 5/03

Raytheon Company (Integrated Defense Systems) Portsmouth, RI Fabrication of a non-developmental item (NDI) AMNS prototype system, and the design, construction, and integration of AMNS equipment into the MH-60S helicopter. Actual SD&D contract award: 1/03.

Naval Surface Warfare (Center Coastal Systems Station) Panama City, FL Serves as the Technical Direction Agent (TDA) for the AMNS program.

AMNS ONLY

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project	t Justification								DATE:		
										Februar	y 2004
APPROPRIATION/BUDGET ACTIV	ITY		PROGRAM ELE	EMENT NUMB	ER AND NAM	E	PROJECT NUM	IBER AND N	AME		
RDT&E, N /	BA-5		0604373N Air	borne Mine	Countermea	sures	2473 Airborn	e Mine Neu	tralization Sy	stem	
(U) D. OTHER PROGRAM F	UNDING SUMMARY:									To	Total
Line Item No. & Name	<u>FY</u>	/ 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	<u>Complete</u>	Cost
RAMICS 422500 WPN		0.000	0.000	0.000	0.000	10.482	24.427	19.632	30.478	CONT	CONT
RAMICS 0019600 PANMC		0.000	0.000	0.000	0.000	0.222	0.673	0.687	0.700	CONT	CONT

(U) E. ACQUISITION STRATEGY:

RAMICS: Achieved MS B in July 2002 and awarded SD&D contract in August 2002 based on a full and open competition. Following a successful DT and MS C in FY06, a FY06 LRIP award is planned for two (2) systems for fleet use. Full Rate Production (FRP) is scheduled to start in FY07.

(U) F. MAJOR PERFORMERS:

SD&D Contractor, Northrop Grumman Melbourne, FL - Awarded RAMICS SD&D contract in August 2002 for two RAMICS Engineering Development Models (EDMs) scheduled for delivery in FY05.

Alliant TechSystems (ATK) - Awarded RAMICS Gun Subsystem contract in July 2001 via NSWC Crane. Performed PDR, CDR, and Acceptance Testing in FY02. The contract has option for production units.

NSWC CSS, Panama City, FL - As Technical Design Agent (TDA) for RAMICS; supported successful completion of CTD Phase, prepared draft Request For Proposal (RFP) for the SD&D contract, supported the proposal evaluation, and conducted a series of risk reduction tests in FY00 - FY02 and plans to conduct additional tests.

NSWC Crane, Crane IN - As a Weapon System Development, Crane is responsible for definition and selection of the RAMICS Gun Subsystem. Accordingly, awarded contract to ATK. NAWC Pax, Pautaxant River, MD - As Aircraft(A/C) Integration Agent, coordinates all tests with A/C Integration.

RAMICS ONLY

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	je 1)									February 200)4	
APPROPRIATION/BUDGET ACTIV	ITY	PROGRAM E	LEMENT			PROJECT NU	JMBER AND N	IAME				
RDT&E, N / BA-5		0604373N A	irborne Mine	Counterme	asures	2473 Airbor	ne Mine Neu	tralization Sy	stem			
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			
	Method	Activity &	_	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Hardware/Software Development	C/845	Lockheed Syracuse, NY	3.331								3.331	
Hardware/Software Development	VAR	Various	3.359	,							3.359)
Hardware/Software Development	WR	CSS Panama City, FL	0.290	0.471	12/02	0.478	10/03	0.243	10/04		1.482	2
Hardware/Software Development	C/CPIF	Raytheon, Portsmouth RI		6.009	01/03	5.093	10/03	1.564	10/04		12.666	j
											0.000)
											0.000)
											0.000)
											0.000)
											0.000)
											0.000)
											0.000)
Subtotal Product Development			6.980	6.480)	5.571		1.807		0.000	20.838	3

Remarks: AMNS Only

Engineering Services	VAR	Various	2.718	0.582	12/02	1.072	10/03	1.153	10/04	0.153	5.678	
Engineering Services	WR	CSS Panama City, FL	7.096	1.278	12/02	3.045	10/03	2.039	10/04	0.262	13.720	
Engineering Services	C/CPIF	Raytheon, Portsmouth RI		1.951	01/03	2.077	10/03	1.219	10/04	0.067	5.314	
											0.000	
ILS Functions	WR	CSS Panama City, FL	2.908	0.153	12/02	0.165	10/03	0.121	10/04	0.094	3.441	
ILS Functions	SS/BOA	Lockheed Syracuse, NY	0.227								0.227	
ILS Functions	C/CPIF	Raytheon, Portsmouth RI		0.561	01/03	0.734	10/03	0.498	10/04	0.336	2.129	
											0.000	
Subtotal Support			12.949	4.525		7.093		5.030	•	0.912	30.509	

Remarks: AMNS ONLY

R-1 SHOPPING LIST - Item No. 107

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CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	ge 2)									February 200)4	
PPROPRIATION/BUDGET ACTIV	/ITY	PROGRAM		_		PROJECT NU						
RDT&E, N / BA-5	Ta		Airborne Mine	Countermea		2473 Airbor		utralization Sy		Г	1	T
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Valu of Contract
Developmental Test & Evaluation	VAR	Various	0.300							'	0.300	
Developmental Test & Evaluation	WR	CSS Panama City, FL	8.647					2.878	10/04		11.525	
Developmental Test & Evaluation	SS/BOA	Lockheed Syracuse, NY	1.254								1.254	
Developmental Test & Evaluation	C/CPIF	Raytheon, Portsmouth RI				1.168	10/03	2.878	10/04		4.046	
Operational Test & Evaluation	WR	COTF Norfolk, VA	1.388					2.396	10/04	1.044	4.828	
Operational Test & Evaluation	SS/BOA	Lockheed Syracuse, NY	0.767								0.767	
		•									0.000	
Subtotal T&E			12.356	0.000		1.168		8.152		1.044	22.720	
Program Management Support	VAR	Various	0.649	0.389	10/02	0.496	10/03	0.547	10/04	0.075	2.156	
		L	1		40/00	1	40/00	1	40/04	T	0.450	
ravel			0.094			0.040		0.040		0.010	0.224	
											0.000	
											0.000	1
											0.000	
											0.000	
Subtotal Management			0.743	0.429		0.536	;	0.587		0.085	2.380	
Remarks:												
otal Cost			33.028	11.434		14.368	3	15.576		2.041	76.447	,
Remarks: AMNS ONLY												

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	ebruary 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&BA-5	0604373N A	irborne Mine	Countermea	asures	2473 Airbor	ne Mine Neut	ralization Sy	stem
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
E&MD Phase (MH-53E)		1Q						
TECHEVAL (MH-53E)		1Q						
QRA (MH-53E)			2Q					
SD&D Contract Award (MH-60S)		2Q						
SD&D Phase (MH-60S)		2Q-4Q	1Q-4Q	1Q-4Q	1Q			
Preliminary Design Review (PDR) (MH-60S)		4Q						
RDC (MH-53E) Start		3Q						
Critical Design Review (CDR) (MH-60S)	-	<u> </u>	2Q					
EDM Deliveries (MH-60S)			3Q-4Q	1Q				
Contractor Testing (MH-60S)			0Q +Q	1Q-2Q				
TECHEVAL (MH-60S)				2Q-3Q				
Milestone C (MS C)				4Q				
OPEVAL (MH-60S)				4Q	1Q			
LRIP (MH-60S) Start					1Q			
FRPDR (MH-60S)					3Q			
Low-Rate Initail Production (LRIP) Delivery (MH-60S)						1Q		
FRP (MH-60S) Start						1Q		
Initial Operational Capability (IOC) (MH-60S)						3Q		
First Deployment (MH-60S)						3Q		
	_							
	-							
	_							
	_							
AMNS ONLY	-				+			

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																					DATE:	:						
					1																		F	ebrua	ry 20	04		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5										R AND											D NAMI leutral		an Gu	otom				
RDT&E, N / BA-3					0004	3/3IN	AIIDO	me w	line C	ounte	illea	sures	1				24/3	AIIDO	me iv	iiiie iv	leutrai	ızatıc	лі әу	stem				
Fiscal Year		20	03			20	04			200	05			20	006			20	07			20	80			200	09	1
	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												иs с △		FRPDI	R (MH-6	0S)			C Fi	L	oloymer	nt						
Prototype Phase					SD&I	D Phas	se (MH	-60S)																				
EDM Contract Award	nct Awa	ard (MH	1-60S)																									
Significant Events				PDR		CDR		Contra	ctor Te	sting (MH-60)S)																
EDM Deliveries							<u></u>	<u></u>	\triangle																			
Test & Evaluation Milestones									Т	ECHE'	VAL (N	1H-608	5)															
Development Test																												
Operational Test					QRA	 (MH-t	53E)						o	PEVAI	L (MH-60	0S)												
Production Milestones																												
PROD (MH-53E) FY 03			\triangle	RDC (MH-53	E) Sta	rt																					ĺ
LRIP (MH-60S) FY 06												,	\setminus_{LRI}	P (MH	-60S) S	tart												İ
FRP (MH-60S) FY 07																	FF	RP (MH	I-60S)	Start								
Deliveries							2	3	2								2(LF	RIP)			3	3	1		3	3	3	1

AMNS ONLY

R-1 SHOPPING LIST - Item No. 107

* Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	ge 1)									February 200	04	
APPROPRIATION/BUDGET ACTIV	ΊΤΥ	PROGRAM E	LEMENT			PROJECT NU	JMBER AND N	IAME				
RDT&E, N / BA-5		0604373N A	irborne Mine	Counterme	asures	2473 Airbor	ne Mine Neu	tralization Sy	stem			
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Hardware/Software Development	C/CPIF	Northrop Grumman, FL	1.032	4.207	10/02	13.691	10/03	5.626	10/04	4.364	28.920	
Hardware/Software Development	Various	CSS - Panama City, FL	1.634								1.634	
Hardware/Software Development	RCP	Crane - Crane, IN	1.381								1.381	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			4.047	4.207		13.691		5.626		4.364	31.935	

Remarks: This is RAMICS only .

Engineering Services	C/CPIF	Northrop Grumman, FL	0.553	1.624	10/02	5.205	10/03	1.290	10/04	1.293	9.965	
Engineering Services	Varioius	CSS - Panama City, FL	3.923	1.037	10/02	1.545	10/03	0.466	10/04	0.322	7.293	
Engineering Services	Varioius	Crane - Crane, IN	2.200								2.200	
Engineering Services	WR	Various	0.725			0.781	10/03			0.880	2.386	
											0.000	
ILS Functions	C/CPIF	Northrop Grumman, FL		1.309	10/02	2.957	10/03	1.783	10/04	0.943	6.992	
ILS Functions	Various	CSS Panama City, FL	0.350	0.134	10/02	0.401	10/03	0.260	10/04	0.255	1.400	
ILS Functions	Various	Various				1.500	10/03	1.000	10/04	0.280	2.780	
Subtotal Support			7.751	4.104		12.389		4.799	•	3.973	33.016	

Remarks: This is RAMICS only .

CLASSIFICATION:

	age 2)							DATE:		February 200	14	
Exhibit R-3 Cost Analysis (p APPROPRIATION/BUDGET ACT	IVITY	PROGRAM	ELEMENT			PROJECT NU	JMBER AND I	I NAME		rebruary 200	/ -	
RDT&E, N / BA-5			Airborne Mine	Countermea	sures			ıtralization Sy	stem			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total	FY 03	FY 03 Award Date	FY 04 Cost	FY 04 Award Date		FY 05 Award Date	Cost to Complete	Total Cost	Target Value
Test & Evaluation	C/CPIF	Northrop Grumman, FL		0.082	10/02	2.248	10/03	0.489	10/04	0.087	2.906	
est & Evaluation	WR	CSS - Panama City, FL	0.930	0.200	10/02	0.100	10/03	0.661	10/04	0.600	2.491	
Fest & Evaluation	WR	Crane - Crane, IN		0.500	10/02						0.500	
est & Evaluation	Various	Various	0.893	0.753	10/02	3.975	10/03	2.199	10/04	0.893	8.713	
											0.000	
											0.000	
											0.000	
Subtotal T&E			1.823	1.535		6.323	3	3.349		1.580	14.610	
Management Support	Various	Various	1.143	0.541	10/02	0.420	10/03	0.300	10/04	0,300	2.704	Ī
	Various	Various Travel	1.143	0.541	10/02 10/02	0.420		0.300 0.021	10/04 10/04	0.300		
	Various										2.704 0.203 0.000	
	Various										0.203	
	Various										0.203 0.000	
	Various										0.203 0.000 0.000 0.000 0.000	
Management Support	Various						10/03				0.203 0.000 0.000 0.000 0.000	
Management Support Management Support Subtotal Management Remarks: This is RAMICS only			0.088	0.030		0.034	10/03	0.021		0.030	0.203 0.000 0.000 0.000 0.000	
Management Support Subtotal Management			0.088	0.030		0.034	10/03	0.021		0.030	0.203 0.000 0.000 0.000 0.000 2.907	

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																					DATE	:	_					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5							ELEMI Airbo i											JECT N					Fe on Sys		ry 20	104		
Fiscal Year		20	03		0004	20		ille ivi	ine Ci	200		ures		20	006		2413	200		ille iv	eutrai)08	tem		200	09	
	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 △			FRF)D 100	C									
Program Phases				Syste	em Dev	velopm	ent an	d Dem	onstra	tion (S	D&D)																	
Significant Events			PI	R A			CDR																					
EDM Delivery											EDM (2)																
Test & Evaluation Milestones										СТ		TE	CHEVA	AL_														
Development Test Operational Test																OPI	EVAL											
Production Milestones																												
LRIP FY06																			_									
FRP FY 07													L	RIP St	ап			$ \downarrow $	FRP	Start			1					\geq
Deliveries																		LRIP (2	2)				Prod (5	5)			Prod (4	4)

* Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
							ebruary 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&BA-5	0604373N A	Airborne Mine	Countermea	asures	2473 Airbori	ne Mine Neut	ralization Sy	stem
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Concept & Technology Development (CTD) Phase	1							
Operational Requirements Document (ORD)	1							
Milestone (MS) B	1							
System Development and Demonstration (SD&D) Phase	1	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q			
SD&D Contract Award	1							
Preliminary Design Review (PDR)	1	4Q						
Critical Design Review (CDR)	1		3Q					
Contractor Testing (CT)	1			2Q				
Engineering Development Model (EDM) Delivery (2 units)	1			3Q				
Technical Evaluation (TECHEVAL)	1			4Q	1Q-2Q			
Milestone (MS) C	1				2Q			
Start Low Rate Initial Production (LRIP)	1				2Q			
Operational Evaluation (OPEVAL)	1				4Q	1Q		
Full Rate Production Decision (FRPD)	1					2Q		
LRIP Production Delivery (2 Units)	1					2Q		
Initial Operational Capability (IOC)	1					2Q		
Full Rate Production Start	1					3Q		
First Production Delivery (5 units)	1						3Q	
Second Production Delivery (4 units)	1						,	3Q
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
	1							
RAMICS ONLY	1							

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
								February 2004			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND							AME			
RDT&E, N / BA-5	0604373N Airborne Mine Countermeasures					4026 - C4I, Tactics, and Mission Planning					
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost	0.000	0.000	0.000	0.000	1.289	1.823	1.556	1.366	1.308	Continuing	Continuing
RDT&E Articles Qty											0

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

The PMS210 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/PU-Q1233.

CLASSIFICATION:

EXHIBIT R-2a	a, RDT&E Project Justification				DATE:	
A DDD ODDIA TIONI	DUDGET A OTIV (ITV	DDOOD AN ELEMENT ALLIE	4050 4410 41445	IDDO ISOT NUMBER AND A	February 2004	
	BUDGET ACTIVITY	PROGRAM ELEMENT NUI		PROJECT NUMBER AND N		
RDT&E, N /	BA-5	0604373N Airborne Min	e Countermeasures	4026 - C4I, Tactics, an	d Mission Planning	
(U) B. Accomplish	ments/Planned Program					
		FY 02	FY 03	FY 04	FY 05	
Accomplishme	nts/Effort/Subtotal Cost				0.657	
RDT&E Articles						
	•					
Mission Plannir	ng and Post Mission Analysis (MEDA	AL)				
		•				
	(5)	FY 02	FY 03	FY 04	FY 05	
	nts/Effort/Subtotal Cost				0.310	
RDT&E Articles	s Quantity					
Common PMA						
Common PiviA						
		FY 02	FY 03	FY 04	FY 05	
Accomplishme	nts/Effort/Subtotal Cost				0.322	
RDT&E Articles	s Quantity					
Total		·			1.289	
	tion, Data Bases, and Algorithms					
Tactics Docum	entation and Training					
	-					
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R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

EXHIBIT R-2a, RDT&E P	roject Justification							DATE:	Fohrus	ry 2004	
APPROPRIATION/BUDGET A	CTIVITY	PROGRAM E	LEMENT NUM	IBER AND NAM	ИE	PROJECT NU	JMBER AND N	I IAME	1 ebi ua	11 y 2004	
RDT&E, N /	BA-5			e Counterme				d Mission P	lanning		
(U) D. OTHER PROGR	AM FUNDING SUMMARY:								То	Total	
Line Item No. & Nam	<u>FY 2</u>	002 FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost	
(U) E. ACQUISITION STI	RATEGY: *										
(U) F. MAJOR PERFORM	MERS: **										
	evelopment. Station, Panama City, FL - Technic an, Annapolis, MD - Q-14/Q-24 Dat										

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pa	ge 1)									February 200	04	
APPROPRIATION/BUDGET ACTIV	/ITY	PROGRAM	ELEMENT			PROJECT N	JMBER AN	ID NAME		•		
RDT&E, N / BA-5		0604373N	N Airborne Mi	ne Counteri	measures	4026 - C4I,		and Mission P	lanning			
Cost Categories	Contract		Total		FY 03		FY 04		FY 05			
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Hardware/Software Development	RCP	SAIC						0.300	10/04	Continuing		1
Hardware/Software Development	RCP	Northrop Grumman						0.295	10/04	Continuing		
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			0.000	0.000)	0.000	o	0.595		0.000	0.595	
Engineering Services	WR	CSS, Panama City						0.322	10/04	Continuing	Continuing	
Engineering Services	RCP	SAIC						0.230	10/04	Continuing	Continuing	
Engineering Services	WR	NAVO						0.015	10/04	Continuing	Continuing	
Engineering Services											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			0.000	0.000		0.000	o	0.567		0.000	0.567	
										·	•	
Remarks:												
·			R-1 SHOE	PING LIST	- Itam No	107						

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pag	e 2)										February 200	4	
APPROPRIATION/BUDGET ACTIV	TY		PROGRAM EI		_			UMBER AND		_			
RDT&E, N / BA-5			0604373N A	Airborne Mir	ne Counterr		4026 - C4	<u>, Tactics, a</u>	nd Mission P	lanning			
Cost Categories	Contract Method & Type	Performing Activity & Location			FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date		Total Cost	Target Value of Contract
	J. 17F-5					_ 0.00						0.000	
												0.000	
												0.000	
												0.000	
												0.000	
												0.000	
												0.000	
Subtotal T&E				0.000	0.000		0.00	0	0.000		0.000	0.000	
Management Support	RCP	SAIC							0.127	10/04	Continuing	Continuing	
Management Support												0.000	
Management Support												0.000	
Management Support												0.000	
												0.000	
											+	0.000	
Subtotal Management				0.000	0.000		0.00	0	0.127		Continuing	Continuing	
Remarks:													
Total Cost				0.000	0.000		0.00	0	1.289			1.289	
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedule																						DATE		F	ebrua	ry 20	04		
APPROPRIATION/BUDGET						PROG																D NAM							
RDT&E, N /	BA-5	1				06043	373N	Airbo	rne M	line C	ounte	rmea	sures	; 				4026	- C4	I, Tac	tics,	and l	Missi	on Pl	annir	ıg			
Fiscal Year			20	03			200	04			20	05			20	006			20	07			20	800			200	9	
		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
MEDAL												$I \wedge ($		nterim E S, OAS S)			OT Tra				sition NS, O	to final ASIS,							
Common PMA														\triangle (CPMA I	Comple	ete I												
NATOPS Supplements																													
Tactics																					Draft								Final
MIW Commanders Handbook																													
Reachback support OAMCM																													
OAMCM Integrated TACMEMO														<u> </u>	LMDS	, AN/AC	QS-20A				\setminus	AMNS	S, OAS	BIS, RA	MICS				
Issue TACMEMO Transition to doctrine														<u> </u>				ALM	DS, A	N/AQS	-20A				AMN	S, OAS	SIS, RA	MICS	
	1					<u> </u>			R-1	SHC	PPIN	IG LIS	IT - It	em N	0.	107	 	<u>!</u>		<u>!</u>	<u> </u>	 	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
							February 20	04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&BA-5	0604373N A	irborne Mine	Countermea	sures		Tactics, and		anning
Schedule Profile		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
AMNS, OASIS, and RAMICS final interim MEDAL Build				3Q				
Common PMA SW, HW. TDP Complete				1Q				
Reachback support for OAMCM Systems				3Q				
OAMCM TACMEMO (ALMDS, AN/AQS-20A)	_				1Q			
Common PMA Complete					1Q			
MEDAL Post-OT Transition to final (ALMDS, Q-20)					2Q			
	-							
MEDAL Post-OT Transition to final (AMNS, OASIS, RAMICS)						2Q		
MIW Commanders Handbook (Draft)						4Q		
OAMCM TACMEMO (AMNS, OASIS, RAMICS)						4Q		
OAMCM TACMEMO Transition to doctorine (ALMDS, AN/AQS-20A)	_						1Q	
OAMCM TACMEMO Transition to doctorine (AMNS, OASIS, RAMICS)								4Q
MIW Commanders Handbook (Final)								4Q
	_							
	_							
	_							

R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2004	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	IE	PROJECT NU	MBER AND NA	AME			
RDT&E, N / BA-5	0604373N Ai	irborne Mine	Countermea	sures		Q9179 Surfa	ce Navy Inte	grated Under	rsea Tactica	l Technology	
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Droinet Cont	0.000	0.000	2 222	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Project Cost	0.000	0.000	3.692	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.692
RDT&E Articles Qty											0

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

This congressional add for Surface Navy Inegrated Undersea Tactical Technology (SNIUTT) will be used to develop an AN/AQS-20A sensor training module for the Carrier Vessel - Tactical Support Center (CV-TSC) LAN-based Surface Network Embedded Analysis and Tactical Trainer (SNEATT).

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
		F	ebruary 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA -5	0604373N Airborne Mine Countermeasures	Q9179 Surface Navy Integrated	d Undersea Tactical Technology
RDT&E, N / BA -5	0604373N Airborne Mine Countermeasures	Q9179 Surface Navy Integrated	d Undersea Tactical Technology

B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost		3.692	0.000	0.000
RDT&E Articles Quantity				

Congressional Add. - Investigate development of an AN/AQS-20A sensor training module for the Carrier Vessel - Tactical Support Center (CV-TSC) LAN-based Surface Network Embedded Analysis and Tactical Trainer (SNEATT).

R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

ethod Type	PROGRAM 0604373N Performing Activity & Location AAC, Ronkonkoma, NY	Airborne Mine Total	Countermea FY 03 Cost 3.359	FY 03 Award Date	PROJECT NU 9179 Surface FY 04 Cost		tegrated Under	sea Tactica	February 200		
Contract Method Type	Performing Activity & Location	Total PY s	FY 03 Cost	FY 03 Award Date	9179 Surfac	FY 04	tegrated Under		al Technology (SNI	UTT)	
ethod Type	Performing Activity & Location	Total PY s	FY 03 Cost	FY 03 Award Date	FY 04	FY 04			al Technology (SNI	UTT)	
ethod Type	Activity & Location	PY s	Cost	Award Date			EV 05	FY 05			
Туре	Location		Cost	Date		Award					
		Cost			COST		FY 05	Award	Cost to	Total	Target Value
//CPFF	AAC, Ronkonkoma, NY		3.359	08/03		Date	Cost	Date	Complete	Cost	of Contract
					+					3.359	
										0.000	
										0.000	
										0.000	
					+					0.000	
		0.000	3 359		0.000		0.00	n	0.000		
/R	CSS Panama City, FL		0.333	06/03						0.333	
										0.000	
										0.000	
										0.000	
										0.000	
										0.000	
										0.000	
		0.000	0.333		0.000)	0.00	0	0.000	0.333	
	R	R CSS Panama City, FL	R CSS Panama City, FL	R CSS Panama City, FL 0.333	R CSS Panama City, FL 0.333 06/03	R CSS Panama City, FL 0.333 06/03	R CSS Panama City, FL 0.333 06/03	R CSS Panama City, FL 0.333 06/03	R CSS Panama City, FL 0.333 06/03	R CSS Panama City, FL 0.333 06/03	R CSS Panama City, FL 0.333 06/03 0.000 0.

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pag	e 2)										February 200	4	
APPROPRIATION/BUDGET ACTIV	TY		PROGRAM EL				PROJECT NU						
RDT&E, N / BA-5				irborne Mine	Countermea				rated Unders	ea Tactical 1	echnology (SNI	JTT)	
Cost Categories	Contract	Performing		Total		FY 03		FY 04		FY 05			
	Method & Type	Activity & Location			FY 03 Cost	Award Date	FY 04 Cost	Award Date	FY 05 Cost	Award Date		Total Cost	Target Value of Contract
Developmental Test & Evaluation	о туре	Location		Cosi	Cosi	Date	Cost	Date	Cost	Date	Complete	0.000	
Operational Test & Evaluation												0.000	
Live Fire Test & Evaluation												0.000	
Test Assets												0.000	
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal T&E				0.000	0.000		0.000		0.000		0.000	0.000	
Contractor Engineering Support												0.000	
Government Engineering Support												0.000	
Program Management Support												0.000	
Travel												0.000	
Labor (Research Personnel)												0.000	
SBIR Assessment												0.000	
Subtotal Management				0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:													
Total Cost				0.000	3.692		0.000		0.000		0.000	3.692	
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																					DATE		F	ebrua	ary 20	04		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5								ENT N rne M										ECT N		R ANI	D NAM	Е			_			
Fiscal Year		200	03			200				20				20	006			200				200	08			200	09	
	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																												
Prototype Phase																												
EDM Contract Award																												
Significant Events																												
EDM Deliveries																												
Test & Evaluation Milestones																												
Development Test Operational Test																												
Production Milestones																												
LRIP (MH-60S) FY 06																												
FRP (MH-60S) FY 07																												<u> </u>
Deliveries										DDIN					407													

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-5		PROGRAM ELEMENT 0604373N Airborne Mine Countermeasures				PROJECT NUMBER AND NAME 9179 SNIUTT			
Schedule Profile		FY 2003	FY 2004		FY 2006	FY 2007	FY 2008	FY 2009	
					1				
					1				
					+				
					+				
	-	+			+				

R-1 SHOPPING LIST - Item No.

107

UNCLASSIFIED