CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:			
_									Febru	uary 2005	
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NO	MENCLATURE				
RESEARCH DEVELOPMENT TEST & EVALU	ATION, NAVY	1	BA-5			0604373N A	irborne Mine	Countermea	asures		
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Program
Total PE Cost	372.342	88.918	51.450	54.659	50.998	34.059	9.617	23.298	51.576	Continuing	Continuing
Airborne Mine Hunt System / 0529	188.672	18.075	4.750	3.421	4.797	3.419	0.808	9.830	20.781	Continuing	Continuing
ALMDS / 2047	71.050	10.505	3.493	11.539	11.882	6.750	1.949	12.133	18.269	Continuing	Continuing
OASIS / 2427/2883	39.197	14.255	11.097	13.985	12.478	4.470	0.000	0.000	11.170	Continuing	Continuing
AMNS / 2473	69.731	46.083	29.367	23.887	20.281	18.049	5.550	0.000	0.000	0.000	212.948
C4I, Tactics and Mission Planning / 4026	0.000	0.000	1.257	1.827	1.560	1.371	1.310	1.335	1.356	Continuing	Continuing
SNUITT / 9197	3.692	0.000	1.486	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.178
Quantity of RDT&E Articles	6		6		2						14

FY05 Congressional Adds: SNIUTT (\$1.5M)

(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 2005
APPROPRIATION/BUDGET ACTIVITY		F	R-1 ITEM NOME	NCLATURE	
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5		0	0604373N Airb	orne Mine	Countermeasures
(U) B. PROGRAM CHANGE SUMMARY:					
(U) B. PROGRAM CHANGE SUMMARY:	FY 2004	FY 2005	FY 2006	FY 2007	
FY 05 President's Budget	90.981	50.514	25.807	18.138	
FY06 President's Budget	88.918	51.450	54.659	50.998	
Total Adjustments	(2.063)	0.936	28.852	32.860	
Summary of Adjustment					
Misc Adjustments	(2.063)	(0.564)	28.852	32.860	
Congressional Actions	4	1.500			
	(2.063)	0.936	28.852	32.860	

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 PB05, the program schedule has been modified to incorporate platform of opportunity (MH-53) CT & DT testing during FY03 through FY04 to mitigate impacts of MH-60S availability. MH-60S DT and MH-60S OT testing will be conducted during FY06 and completed by the end of FY06 in support of an early FY07 FRPD. IOC will now occur by December 07. ALMDS Following Congressional reduction of FY04 procurement units, SH-60F Developmental Testing (DT-IID) is scheduled for FY05, MH-60S Developmental Testing (DT-IID/E is scheduled for FY07, and Operational Testing (OT) is scheduled for FY07/FY08. MS C and LRIP decision is scheduled for early FY05 to support IOC. A revised Acquisition Program Baseline with updated schedule parameters was signed on 13 March 04. QASIS Schedule adjusted to meet availability of MH-60S helicopter for development testing. MH-53E alternate platform testing will be completed in FY2005 along with an Operational Assessment (OA). MH-60S CT will be completed in FY06, DT testing in FY07, and OT has moved to FY08. LRIP production will begin in FY07 following MH-53E CT/OA a, d MH-60S CT. AMNS MH-60S Block 2B aligned AMNS schedule extends SD&D phase out to end of FY07 but preserves FY07 IOC. MS C will be based on Alternate Platform tests to be conducted in FY05 and FY06 to mitigate risk and minimize schedule loss.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N/Ai	rborne Mine	Countermea	sures		0529 Airbori	ne Mine Hunt	Systems			
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Program
Project Cost	188.672	18.075	4.750	3.421	4.797	3.419	0.808	9.830	20.781	Continuing	Continuing
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 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 Organic MCM platforms.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
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 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.469	0.581	1.920	2.137
RDT&E Articles Quantity				

Complete EDM fabrication, including incorporation of Electro-Optic Identification (EOID) sensor capabilities.

Conduct EDM testing with maintainability requirements and refurb EDMs. Acquire EOID test units.

Commence Pre-Planned Product Improvement (P3I) to improve environmental data collection, 3-D Sonar Imaging, and acoustic identification ability.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	12.846	3.609	1.021	2.000
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) Computer Aided Detection and Computer Aided Classification (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.

Conduct testing on P3I improvements to the sonar and EOID to validate quality of oceanographic data recorded via the Mission Data Recorder to establish an environmental database to be integrate in to MEDAI

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.760	0.560	0.480	0.660
RDT&E Articles Quantity				
Total	18.075	4.750	3.421	4.797

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

Develop ILS & supportability products and engineering support for P3I improvements

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	ary 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM E	LEMENT NUM	BER AND NAM	ΛΕ	PROJECT NU	MBER AND N	AME			
RDT&E, N , BA-5		0604373N A	irborne Mine	Countermea	asures	0529 Airbori	ne Mine Hun	t Systems			
(U) C. OTHER PROGRAM FUNDING SUMMARY	:								То	Total	
<u>Line Item No. & Name</u> 424800 OPN	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost	
AQS-20A	0.000	40.297	26.985	51.970	53.220	0.000	0.000	0.000	0.000	172.472	

(U) D. ACQUISITION STRATEGY: *

Upon successful completion of DT and MS C, Sole Source MH-60S systems LRIP procurement will begin in FY05 & FY06 with a Full Rate Procurement contract following a Full Rate Production Decision Review (FRPDR) in FY07.

CLASSIFICATION:

										DATE:				
Exhibit R-3 Cost Analysis (page	ge 1)										F	ebruary 20	05	
APPROPRIATION/BUDGET ACTIV	ΊΤΥ	PROGRAM E	LEMENT			PROJECT N	UMBER ANI	O NAME						
RDT&E, N / BA-5		,	irborne Mine			0529 Airbo		unt Systems		•				
Cost Categories		Performing	Total		FY 04	E) / 05	FY 05	E) / 00	FY 06	EV 07	FY 07		.	T ()/ 1
	Method & Type	Activity & Location	PY s Cost		Award Date	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	SS/CPIF	Raytheon, Portsmouth, RI	21.931	4.469	10/03	0.581	10/04	1.721	10/05	1.637	10/06	Continuing		or contract
Hardware/Software Development	C/CPFF	Raytheon, Portsmouth, RI	60.150	4.400	10/00	0.001	10/04	1.721	10/00	1.007	10/00	Continuing	60.150	
Hardware/Software Development	WX	NSWC, Panama City, FL	4.966					0.200		0.500	10/06	Continuing	Continuing	
Hardware/Software Development	C/FP	Northrop, Grumman	4.572										4.572	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal Product Development			91.619	4.469		0.581		1.921		2.137		Continuing		
Engineering Services	WX	NSWC, Panama City, FL	24.279	4.100	10/03	1.519	10/04	0.320	10/05	0.150	10/06	Continuing	Continuing	
Engineering Services	C/CPFF	Raytheon, Portsmouth, RI	2.000	1.286	01/04			0.400		0.800	10/06	Continuing	Continuing	
Engineering Services	VAR	Various	51.797	1.371	10/03	0.250	10/04						53.418	
Engineering Services	SS/CPIF	Raytheon, Portsmouth, RI	1.941	1.323	10/03	0.300	10/04						3.564	
													0.000	
ILS Functions	WX	NSWC, Panama City, FL	4.869	0.900	10/03			0.200	10/05	0.230	10/06	Continuing	Continuing	
ILS Functions	SS/CPIF	Raytheon, Portsmouth, RI	0.826					0.050	10/05	0.720		Continuing	Continuing	
ILS Functions	VAR	Various	0.736			0.700	10/04						1.436	
Subtotal Support			86.448	8.980		2.769		0.970		1.900		Continuing	Continuing	
Remarks:														

CLASSIFICATION:

Exhibit R-3 Cost Analysis (pag	ne 2)							DATE:		F	ebruary 20	005		
APPROPRIATION/BUDGET ACTIV		PROGRAM E	LEMENT			PROJECT N	UMBER AND	NAME			, <u>,</u>			
RDT&E, N / BA-5		0604373N A	irborne Min	e Countern	neasures	0529 Airbo	rne Mine H	unt Systems	S					
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			
		Activity &			Award		Award		Award	FY 07	Award		Total	Target Value
	& Type	Location	Cost	Cost	Date		Date	Cost	Date	Cost	Date		Cost	of Contract
T&E Functions	WX	NSWC, Panama City	6.764	3.104	10/03	0.400	10/04					Continuing	Continuing	
T&E Functions	SS/CPIF	Raytheon, Portsmouth, RI	0.422	0.562	10/03	0.300	10/04	0.050	10/05	0.100	10/06	Continuing	Continuing	
T&E Functions	VAR	Various	1.243	0.200	10/03	0.140	10/04						1.583	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal T&E			8.429	3.866		0.840		0.050		0.100)	Continuing	Continuing	
	T				T .		· .	T		T	ı	· · · · · · · · · · · · · · · · · · ·		
Management Support			1.787	0.700		0.500		0.450	10/05	0.630	1	Continuing	Continuing	
Travel			0.389	0.060	10/03	0.060	10/04	0.030	10/05	0.030)	Continuing	Continuing	
								1					0.000	
													0.000	
													0.000	
													0.000	
Subtotal Management			2.176	0.760		0.560		0.480		0.660)	Continuing	Continuing	
Remarks:														
Total Cost			188.672	18.075		4.750		3.421		4.797	,	Continuing	Continuing	
Remarks:												<u>.</u>		

CLASSIFICATION:

EXHIBIT R4, Schedule	Profi	le																							DATE	:	F	ebrua	ary 20)05		
APPROPRIATION/BUDGE	T ACTI BA-								PROG 0604 :														IUMBE									
RDT&E, N /	DA-	20	004			20	05		0604	20		rne w	ine C	20		sures		20	008		0529	20	orne M 09	iine r	iunt s		10			20	11	
	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	LRIP							IOC FRP																		
Development Phase		Α	N/AQS	0A S	SD&D						AN/	AQS-2	0A P3	l I		I						I	I	I		 						
EDMs Delivery																																
Software Delivery V 5.X SW Delivery																																
Test & Evaluation Milestones Development Test Operational Test	СТ		MH-53 Sys D						MH- Int				60S DT																			
Production Milestones LRIP I FY 05 LRIP II FY 06 FRP FY 07							A	N/AQS	-20A L	RIP I	& II		AN/A	QS-20	DA Ful	I Rate	Produ	ction														
JIM FIVI																	AN/A	QS-20	A Deliv	eries			l			I	I		1			
Deliveries														2	1	1	1	1	2	1	1	1	2	2								

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
							February 20	05
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	MBER AND NA		
RDT&E, BA-5	0604373N A	irborne Mine	Countermea	sures	0529 Airborı	ne Mine Hunt	Systems	
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Contractor Test	1Q							
MH-53E System DT	2Q-4Q							
MH-60S Int. DT			1Q-2Q					
Milestone C (MS C)/LRIP		2Q						
MH-60S OT			4Q	1Q				
Low Rate Intial Prodcution I & II		3Q-4Q	1Q-4Q					
AN/AQS-20A Full Rate Production (FRP) Decision				1Q				
IOC				1Q				
AN/AQS-20A Full Rate Production				1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
AN/AQS-20A P3I			3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUMI	BER AND NAM	IE	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N A	Airborne Mir	ne Countern	neasures		2047 Airbo	rne Laser M	ine Detection	n System		
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Program
Project Cost	71.050	10.505	3.493	11.539	11.882	6.750	1.949	12.133	18.269	Continuing	Continuing
RDT&E Articles Qty	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 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 Expeditionary Strike Groups (ESG). 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 FY2006.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	İAME
RDT&E, N / BA-5	0604373N Airborne Mine Countermeasures	2047 Airborne Laser Mir	ne Detection System
(II) D. Assessed School of Discourse I. December 1			

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	5.442	2.159	9.180	6.128
RDT&E Articles Quantity				

EDM development, fabrication, software coding.

Continue to conduct technical studies, MH-60S Interface, C4I Interface, and MEDAL.

Design and implement performance enhancements.

Develop algorithms and redesign system for very shallow water capability.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.442	0.345	0.096	0.750
RDT&E Articles Quantity				

Integrated Logistics Support and delivery of Technical Data Package

Continue to monitor contractor performance and technical review of CDRLs.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.621	0.989	2.263	5.004
RDT&E Articles Quantity				
Total	10.505	3.493	11.539	11.882

Developmental Testing-IIC (FY05)

Operational Testing (OPEVAL) (FY07/FY08) DT-IID and WSIT CT (FY06/FY07)

DT-IIE (FY07)

CLASSIFICATION:

EXHIBIT R-2a, RDT&	E Project Justification								DATE:			
										Febru	ary 2005	
APPROPRIATION/BUDGE	T ACTIVITY		PROGRAM EI	LEMENT NUM	BER AND NAM	ИE	PROJECT NU	JMBER AND N	AME		-	
RDT&E, N /	BA-5		0604373N A	irborne Mine	e Counterme	asures	2047 Airbor	ne Laser Mir	ne Detection	System		
(U) C. OTHER PRO	OGRAM FUNDING SUMMARY	:								To	Total	
Line Item No. & N	lame_	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	<u>Complete</u>	Cost	
424800 OPN		0.000	21.175	5.860	22.180	18.940	53.299	7.916	8.987	Continuing	Continuing	

(U) D. ACQUISITION STRATEGY:

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 under run. Successful completion of DT-IIC, on an alternate platform (SH-60F), will support a Low-Rate Initial Production (LRIP) decision. After a successful OPEVAL on the intended deployment platform (MH-60S), Full-Rate Production will begin. The first full-rate production lot will be delivered in FY09. The remaining production units will be awarded after a full and open competition.

R-1 SHOPPING LIST - Item No. 107

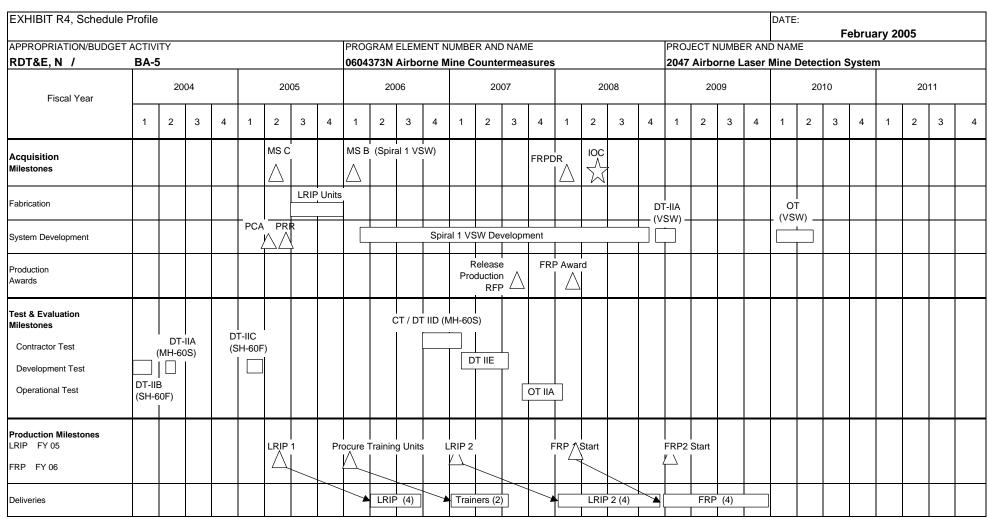
CLASSIFICATION:

Exhibit R-3 Cost Analysis (pag	ge 1)							DATE:		F	ebruary 2	005		
APPROPRIATION/BUDGET ACTIV	TTY TTY	PROGRAM ELEI	MENT			PROJECT N	UMBER AND	NAME						
RDT&E, N / BA-5		0604373N Air	borne Min	e Counterr	neasures	2047 Airb	orne Lase	r Mine Dete	ection Sys	tem				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	WX	NSWC, Panama City	0.515	0.050	10/03								0.565	;
Hardware/Software Development	WX	NSWC, PC, (Prime Contractor)	20.586	2.156	10/03	0.100	10/04	2.668	10/05	2.108	10/06	Continuing	Continuing	
Hardware/Software Development	RCP	Metron	0.625										0.625	,
Hardware/Software Development	RCP	SAIC	0.200										0.200)
Hardware/Software Development													0.000	,
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal Product Development			21.926	2.206		0.100		2.668		2.108	3	Continuing	Continuing	
Engineering Services	WX	NSWC, Panama City	8.449	0.438	10/03	0.375	10/04	1.547	10/05	0.721	10/06	Continuing	Continuing	J
Engineering Services	WX	NSWC, PC, (Prime Contractor)	10.530	1.320	10/03	0.305	10/04	1.935	10/05			0.000	14.090	1
Engineering Services	VAR	Various	6.284	0.616	10/03	0.400	10/04	1.859	10/05	1.989	10/06	Continuing	Continuing	J
Engineering Services	RCP	Various	3.122	0.200	10/03	0.289	10/04	0.200	10/05	0.400	10/06	Continuing	Continuing	J
ILS Functions	WX	NSWC, Panama City	1.346	0.100	10/03	0.245	10/04	0.096	10/05	0.500	10/06	Continuing	Continuing	J
ILS Functions	WX	NSWC, PC, (Prime Contractor)	5.483	0.242	10/03	0.000	10/04	0.000	10/05	0.250	10/06	Continuing	Continuing	J
ILS Functions	VAR	Various/NRL Stennin	1.062										1.062	
ILS Functions	WX	NSWC, Panama City	0.100	0.100)	0.100	10/04						0.300	1
Subtotal Support			36.376	3.016		1.714		5.637		3.860)	Continuing	Continuing	Í
Remarks:														

CLASSIFICATION:

								DATE:						
Exhibit R-3 Cost Ana	llysis (page 2)									F	ebruary 20	05		
APPROPRIATION/BUDG		PROGRAM E				PROJECT N								
RDT&E, N /	BA-5	0604373N A	Airborne M	ine Counte		2047 Airb		r Mine Dete		tem				
Cost Categories	Contract		Total		FY 04		FY 05		FY 06		FY 07			
	Method	Activity &		FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Value
	& Type	Location		Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Testing and Evaluation	WX	NSWC, PC, (Prime Contracto	6.257	1.815	10/03	0.000	10/04	0.100	10/05	1.219	10/06	Continuing	Continuing	
Testing and Evaluation	WX	NSWC, Panama City	2.986	2.407	10/03	0.714	10/04	2.163	10/05	3.785	10/06	Continuing	Continuing	
Testing and Evaluation	VAR	Various	0.392										0.392	
Testing and Evaluation	WX	NSWC, Panama City	0.600	0.399	10/03	0.275	10/04						1.274	
													0.000	
													0.000	
													0.000	
Subtotal T&E			10.235	4.621		0.989		2.263		5.004		Continuing	Continuing	
Management Support		Travel	0.230	0.030	10/03	0.030	10/04	0.050	10/05	0.050	10/06	Continuing	Continuing	
Management Support	VAR	Various	1.400	0.347	10/03	0.180	10/04	0.616	10/05	0.620	10/06	Continuing	Continuing	
Management Support	WX	NSWC, PC, (Prime Contracto	0.579			0.000	10/04	0.040	10/05	0.180	10/06	Continuing	Continuing	
Management Support	WX	NSWC, Panama City	0.304	0.285	10/03	0.480	10/04	0.265	10/05	0.060	10/06	Continuing	Continuing	
													0.000	
													0.000	
Subtotal Management			2.513	0.662		0.690		0.971		0.910		Continuing	Continuing	
Remarks:		T	-10-50	40.505		Ι		1 4	ı	1	ı	I Constitution	Locationic	
Total Cost			71.050	10.505		3.493		11.539		11.882	1	Continuing	Continuing	
Remarks:														

CLASSIFICATION:



CLASSIFICATION:

Exhibit R-4a, Schedule Detail							ebruary 200)5
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	IMBER AND N	AME	
RDT&BA-5	0604373N A	irborne Mine	Countermea	asures	2047 Airbor	ne Laser Min	e Detection	System
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Milestone C (MS C)		2Q						
Developmental Testing (DT-IIA - MH-60S)	2Q							
Developmental Testing (DT-IIB/OA - SH-60F)	1Q							
Developmental Testing (DT-IIC - SH-60F)		1Q						
Start Low-Rate Initial Production I (LRIP I)		2Q						
Physical Configuration Audit (PCA)		2Q						
Operational Testing (OPEVAL - MH-60S)				3Q-4Q	1Q			
Preproduction Readiness Review (PRR)		2Q						
Full Rate Production (FRP) Decision					1Q			
Low-Rate Initial Production I Delivery			2Q					
IOC					2Q			
CT/DT IID			4Q	1Q				
DT IIE				1Q-2Q				
Full Rate Production Start (FRP 1)					1Q			
Full Rate Production Start (FRP 2)						1Q		
Full Rate Production Delivery (FRP 1)						1Q		
Milestone B (VSW)			1Q					
DT-IIA (VSW)					4Q	1Q		
OT (VSW)							1Q-2Q	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2005	
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	e Countern	neasures		2427/2883 (Organic Airl	orne and S	urface Influ	ience Sweep	
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Program
Project Cost	39.197	14.255	11.097	13.985	12.478	4.470	0.000	0.000	11.170	Continuing	Continuing
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 in support of the Carrier Strike Groups (CSG) and Expeditionary Strike Groups (ESG). 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 include 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) will be developed for test and evaluation. Production is planned to begin with LRIP in FY07 and full rate production to start in FY08. A Pre-Planned Product Improvement (P3I) program will be initiated to develop an autonomous sweep capability in FY11.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	NAME
RDT&E, N / BA-5	0604373N Airborne Mine Countermeasures	2427/2883 Organic Airbo	orne and Surface Influence Sweep
		<u> </u>	

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.827	1.559	1.936	0.954
RDT&E Articles Quantity		3		

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.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	11.063	8.507	11.087	11.088
RDT&E Articles Quantity				

Conduct technical studies on MH-60S interface and other technical studies.

Conduct testing including CT/DT/OA on an MH-53E helicopter and CT, DT abd OT on an MH-60S helicopter.

Conduct studies on C4I Interface and MEDAL requirements.

Conduct engineering and design work.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.365	1.031	0.962	0.436
RDT&E Articles Quantity				
Total	14.255	11.097	13.985	12.478

Monitored Contractor performance and technical review of CDRLs. Conduct CDR and PDR.

Continue to monitor Contractor performance and technical review of CDRLs.

Support platform integration.

CLASSIFICATION:

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										Februa	ary 2005
ROPRIATION/BUDGE					BER AND NAM		PROJECT NU				
T&E, N /	BA-5		0604373N A	irborne Mine	Countermea	asures	2427/2883 O	rganic Airb	orne and Sur	face Influence	Sweep
(U) C. OTHER PRO	OGRAM FUNDING SUMM	ARY:								To	Total
Line Item No. & N	lame	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To <u>Complete</u>	<u>Cost</u>
424800 OPN		0.000	0.000	0.000	7.434	11.550	11.606	0.000	0.000	0.000	30.590
(U) D. ACQUISITION	STRATEGY:										
	e B review in FY02, a SD& n will begin.	D contract was awa	arded. In FY07	, following a su	ıccessful DT ar	nd MS C, LRI	P procurement o	ptions will be	exercised. In F	Y08 after a succ	essful OT Full
rate production											
rate production											
rate production											
rate production											
rate production											
rate production											
rate production											
rate production											

CLASSIFICATION:

								DATE:						
Exhibit R-3 Cost Analysis (pa										F	ebruary 20	005		
APPROPRIATION/BUDGET ACTIV	ITY	PROGRAM E				PROJECT N								
RDT&E, N / BA-5	T-		line Counte			2427/2883		rborne and S		luence Swee			1	
Cost Categories		Performing	Total		FY 04	F) (0 F	FY 05	E) (00	FY 06	E) (07	FY 07		.	T ()/ 1
	Method & Type	Activity & Location	PY s Cost	FY 04 Cost	Award Date	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date		Total Cost	Target Value of Contract
Hardware/Software Development	C/CPFF	EDO Corp.	1.722	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	1.722	
Hardware/Software Development	C/CPIF	EDO Corp.	6.045	1.827	10/03	1.559	10/04	1.936	10/05	0.954	10/06	Continuing	Continuing	1
Hardware/Software Development		Aeptec Microsystems Inc	5.898	1.021	10/03	1.559	10/04	1.930	10/05	0.954	10/06	Continuing	Continuing	1
Tiardware/Software Development	33/CF11	Rockville, MD	3.090									Continuing	0.000	
	+	Rockville, IVID											0.000	
			1					+						
								+					0.000	
								+					0.000	
								+					0.000	
								+					0.000	
			1					+					0.000	
O Livid Book at Book and			40.005	4.007		4.550		4.000		0.054		O timim	0.000	
Subtotal Product Development			13.665	1.827		1.559		1.936		0.954		Continuing	Continuing	
Engineering Services	wx	NUWC Keyport	0.659										0.659	
Engineering Services	C/CPIF	EDO Corp	5.656	4.558	10/03	1.104	10/04	1.375	10/05	2.120	10/06	Continuing	Continuing	
Engineering Services	WX	NSWC Panama City	7.211	0.813	10/03	1.693	10/04	2.096	10/05	0.655	10/06	Continuing	Continuing	
Engineering Services	WX	NSWC Carderock MD	0.725										0.725	
Engineering Services/ILS	VAR	Various	0.548										0.548	
Engineering Services	PD	ONR	1.367	2.098	10/03	1.100	10/04	1.890	10/05	1.441	10/06	Continuing	Continuing	
ILS Functions	C/CPIF	EDO Corp	1.396	1.023	10/03	1.065	10/04	0.441	10/05	0.400	10/06	Continuing	Continuing	
ILS Functions	WX	NSWC Panama City	1.181	0.053	10/03	0.311	10/04	0.387	10/05	0.404	10/06	Continuing	Continuing	
Subtotal Support			18.743	8.545		5.273		6.189		5.020		Continuing	Continuing	
Remarks:														

CLASSIFICATION:

								DATE:						
Exhibit R-3 Cost Analysis (pa	age 2)							27.1.2.		F	ebruary 2	2005		
APPROPRIATION/BUDGET ACTI	VITY	PROGRAM	ELEMENT			PROJECT N	UMBER AN	D NAME			,			
RDT&E, N / BA-5		0604373N	Airborne Mi	ne Counte	rmeasures	2427/2883	Organic A	irborne and	Surface Inf	luence Swe	ер			
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			
	Method	Activity &		FY 04	Award		Award		Award	FY 07	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete		of Contract
Test and Evaluation Functions													0.000	
T&E Functions	C/CPIF	EDO Corp	2.659	1.299	10/03	1.172	10/04	1.386	10/05	1.450	10/06	Continuing	Continuing	į
T&E Functions	WX	NSWC Panama City, FL	1.286	1.552	10/03	2.062	10/04	3.512	10/05	4.618	10/06	Continuing	Continuing	j
T&E Functions	VAR	Various	0.554										0.554	,
													0.000	,
													0.000	, i
													0.000	+
Subtotal T&E			4.499	2.851		3.234		4.898		6.068		Continuing	1	1
								_						
Management Support													0.000	,
Management Support	VAR	Various	2.125	1.002	10/03	1.001	10/04	0.932	10/05	0.406	10/06	Continuing	Continuing	j
Management Support		Travel	0.165	0.030	10/03	0.030	10/04	0.030	10/05	0.030	10/06	Continuing	Continuing	j
													0.000	,
													0.000	,
													0.000	,
Subtotal Management			2.290	1.032		1.031		0.962		0.436	i	Continuing	Continuing	,
Remarks:														
Total Cost			39.197	14.255		11.097		13.985		12.478	1	Continuing	Continuing	Į .
Remarks:														

CLASSIFICATION:

EXHIBIT R4, Schedul	e Profile																								DATE	:	F	ebrua	ary 20	05	
APPROPRIATION/BUDGE	T ACTIV	ITY							PROC	RAM	ELEM	ENT N	UMBE	R AND	NAM	E					PROJ	IECT N	IUMBE	R AN	D NAM	1E					
RDT&E, N /	BA-5	5							0604	373N	Airbo	rne N	line C	ounter	mea	sures					2427	/2883	Orga	nic Ai	irborn	e and	l Surf	ace In	fluen	ce Sw	еер
Fiscal Year		20	004			20	05			20	06			200	7			20	008			20	09			20	10			20 ⁻	11
	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
Acquisition Milestones													MS LRI					IOC													
System Development	CDR												Po	st Miles PRR																	d Productent (P3I)
EDM OASIS Delivery								Sys 1-3	8																						
Test & Evaluation Milestones Contractor Test Development Test Operational Test						CT/D			СТ	MH-60)SC			DT-II	ОТ	RR	OPEV	AL													
Production Milestones													LRIP S	Start				FRE	Start												
Deliveries																															

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
A DDD ODDIATION/DUDOFT, A OTIV/ITV	IDDOODANG	ENTENIT			IDDO IDOT NII	F	ebruary 200)5
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E					MBER AND NA	AME	
RDT&BA-5	0604373N A	irborne Mine	Countermea	asures	2427/2883 C	ASIS		
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Hardware Critical Design Review	1Q				+			
Software Critical Design Review	1Q							
EDM System 1 Delivery		3Q						
EDM System 2 Delivery		4Q						
EDM System 3 Delivery		4Q						
CT/DT/OA MH-53E Testing		2Q-3Q						
CT MH-60S Testing			3Q-4Q					
DTII Testing				2Q-3Q				
OPEVAL					1Q			
Milestone C (LRIP)				1Q				
LRIP Contract Award				1Q				
FRP Contract Award					2Q			
Initial Operational Capability					2Q			
Pre-planned Product Improvement (P3I)								1Q-4Q

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	IE	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N Ai	rborne Mine	Countermea	sures		2473 Airborr	ne Mine Neut	ralization Sy	stems		
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Program
Project Cost	69.731	46.083	29.367	23.887	20.281	18.049	5.550	0.000	0.000	0.000	212.948
			AMNS		RAMICS						
RDT&E Articles Qty			3		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 0529 P.E. 0604373N. AMNS will provide the MH-60S helicopter 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 helicopter 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 Expeditionary Strike Groups (ESG). This capability will be of critical importance in littoral zones, confined straits, choke points, and the Amphibious Objective Area (AOA). MH-60S Block 2B aligned AMNS, extends SD&D phase out later in the FYDP. MS C will be based on Alternate Platform tests to be conducted in FY05 and FY06 as well as Contractor Testing (CT) on the MH-60S helicopterto be conducted in FY06 and FY07.

The AN/AWS-2 Rapid Airborne Mine Clearance System (RAMICS) MIW program began Concept & 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 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 Expeditionary 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. this program received a 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. RAMICS program was restructured to align with MH-60S Helicopter Block 2B schedule. Plan includes the use of an alternate test platform to mitigate risk and schedule impacts.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
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 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	14.017	15.416	7.687	12.829
RDT&E Articles Quantity		3		

FY04 ACCOMPLISHMENTS:

Continued design, develop software, and integrated aboard MH-60S, conducted 2105 munition safety testing and environmental testing that includes tests for sympathetic detonation, a 40 foot drop, temperature and humidity, vibration, bullet impact, fragment impact, slow cook-off, and fast cook-off. Continued to monitor Contractor performance and technical review of CDRLs.

FY05 PLAN: Prepare documentation for MH-60S contract award (production), complete development of alternate platform tactical software, and begin alternate platform testing.

FY06 PLAN: Complete alternate platform testing. Begin MH-60S Contractor Testing (CT). Continue to monitor Contractor performance and technical review of CDRLs. Develop program documentation to achieve MS C.

FY07 PLAN: Complete MH-60S contractor test and initiate MH-60S TECHEVAL. Achieve MS C decision. Exercise Low Rate Initial Production (LRIP) option in SD&D contract.

RAMICS	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	32.066	13.951	16.200	7.452
RDT&E Articles Quantity				2
Total	46.083	29.367	23.887	20.281

FY04 ACCOMPLISHMENTS:

Continued RAMICS MIW design, development under SD&D contract. Conducted DT-IIA by analysis and Critical Design Review (CDR) in May 2004. Started RAMICS ASW capabilities (Sea Sniper) design. Congressional Add for Seasniper capability. Supported DODIG audit.

FY05 PLAN: Continue RAMICS design, develop, and fabrication of Engineering Development Models (EDMs).

FY06 PLAN: Conduct contractor testing (CT) and Development testing (DT) on alternate platform.

FY07 PLAN: Complete DT on alternate platform. Conduct ground test with regression analysis and start captive carriage and jettison testing on the MH-60S helicopter.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Proje	ct Justification								DATE:		
										Februa	ary 2005
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM EL	EMENT NUMI	BER AND NAM	1E	PROJECT NU	MBER AND N	AME		
RDT&E, N /	BA-5		0604373N Ai	rborne Mine	Countermea	sures	2473 Airborn	ne Mine Neu	tralization Sy	ystem	
(U) C. OTHER PROGRAM	FUNDING SUMMARY:									То	Total
<u>Line Item No. & Name</u> AMNS		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	<u>Complete</u>	<u>Cost</u>
424800 OPN		0.000	0.000	0.000	4.469	4.745	14.615	0.000	0.000	0.000	23.829
AMNS 422500 WPN		0.000	0.000	1.515	4.667	3.514	5.716	4.503	4.282	CONT.	CONT.

(U) D. ACQUISITION STRATEGY:

In FY07 following a successful alternate platform test, contractor test, and MS-C, an LRIP award is planned for two (2) MH-60S systems. FRPDR is planned for FY09. Full and open competition is planned for the AMNS (MH-60S) FRP contract.

AMNS ONLY

CLASSIFICATION:

EXHIBIT R-2a, RDT&E P	oject Justification								DATE:			
										Februa	ry 2005	
APPROPRIATION/BUDGET A	CTIVITY		PROGRAM EL	EMENT NUMB	ER AND NAMI	Ε	PROJECT NUM	IBER AND N	AME			
RDT&E, N /	BA-5		0604373N Aiı	borne Mine	Countermea	sures	2473 Airborn	e Mine Neut	ralization Sys	stem		
(U) D. OTHER PROGR	AM FUNDING SUMMARY:									To	Total	
Line Item No. & Name	<u>.</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost	
RAMICS 422500 WPN		0.000	0.000	0.000	0.000	0.000	10.864	24.723	0.000	0	35.587	
RAMICS 0019600 PANMC		0.000	0.000	0.000	0.000	0.585	0.586	1.831	0.000	0	3.002	

(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 MS C, a competitive LRIP award is planned for one (2) systems for fleet use. Full Rate Production (FRP) option is scheduled to start in FY10.

CLASSIFICATION:

Exhibit R-3 Cost Analysis (pag	ge 1)							DATE:			February	2005		
APPROPRIATION/BUDGET ACTIV		PROGRAM E	LEMENT			PROJECT N	UMBER AN	D NAME			·			
RDT&E, N / BA-5		0604373N A	irborne Min	e Countern	neasures	2473 Airbo	rne Mine N	Neutralizatio	n System					
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			
		Activity & Location	PY s Cost	FY 04 Cost	Award Date	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development		Lockheed Syracuse, NY	3.331				_ = = = =						3.331	1
Hardware/Software Development	VAR	Various	3.359										3.359	9
Hardware/Software Development	WX	NSWC Panama City, FL	0.761	0.512	10/03	0.173	10/04						1.446	6
Hardware/Software Development	C/CPIF	Raytheon, Portsmouth RI	6.009	5.898	10/03	3.769	10/04						15.676	3
													0.000)
													0.000)
													0.000)
													0.000)
													0.000	
													0.000	
								_					0.000	
Subtotal Product Development			13.460	6.410		3.942		0.000				0.000	23.812	2
D														
Remarks: AMNS Only														

Engineering Services	VAR	Various	3.300										3.300	
Engineering Services	wx	NSWC Panama City, FL	8.374	3.329	10/03	3.108	10/04	2.681	10/05	3.346	10/06	3.800	24.638	
Engineering Services	C/CPIF	Raytheon, Portsmouth RI	1.951	2.943	10/03	1.210	10/04	0.656	10/05	2.424	10/06	1.854	11.038	
													0.000	
ILS Functions	wx	NSWC Panama City, FL	3.061	0.158	10/03	0.115	10/04	0.089	10/05				3.423	
ILS Functions	SS/BOA	Lockheed Syracuse, NY	0.227										0.227	
ILS Functions	C/CPIF	Raytheon, Portsmouth RI	0.561	0.699	10/03	0.475	10/04	0.320	10/05				2.055	
													0.000	
Subtotal Support			17.474	7.129		4.908		3.746		5.770		5.654	44.681	

Remarks: AMNS ONLY

CLASSIFICATION:

Exhibit P-2 Coet Analysis (no								DATE:		_				
Exhibit R-3 Cost Analysis (pa						Inno Inno				F	ebruary 2	005		
APPROPRIATION/BUDGET ACTIV	/IIY	PROGRAM E		. Caumtaum		PROJECT N	-		. Custom					
RDT&E, N / BA-5 Cost Categories	Contract	Performing	irborne Mine	Counterme	FY 04	24/3 AIrbo	FY 05	eutralization	FY 06		FY 07	1	1	
Cost Categories	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Value
	& Type	Location	Cost		Date		Date	Cost	Date	Cost	Date	Complete		of Contract
Developmental Test & Evaluation	VAR	Various	0.300									•	0.300	
Developmental Test & Evaluation	WX	CSS Panama City, FL	8.647			2.092	10/04	0.671	10/05	2.865	10/06	0.000	14.275	
Developmental Test & Evaluation	SS/BOA	Lockheed Syracuse, NY	1.254										1.254	
Developmental Test & Evaluation	C/CPIF	Raytheon, Portsmouth RI				4.064	10/04	2.871	10/05	3.790	10/06	0.000	10.725	
Operational Test & Evaluation	WX	COTF Norfolk, VA	1.388									3.475	4.863	
Operational Test & Evaluation	SS/BOA	Lockheed Syracuse, NY	0.767										0.767	
													0.000	
Subtotal T&E			12.356	0.000		6.156		3.542		6.655		3.475	32.184	
Program Management Support	VAR	Various	1.038	0.438	10/03	0.370	10/04	0.359	10/05	0.364	10/06	0.268	2.837	
0 11	VAR	Various												
Fravel			0.134	0.040	10/03	0.040	10/04	0.040	10/05	0.040	10/06	0.040	0.334	
						+							0.000	
													0.000	
													0.000 0.000	
Charles			4.470	0.470		0.440		0.200		0.404		0.000	0.000 0.000 0.000	
Subtotal Management			1.172	0.478		0.410		0.399		0.404		0.308	0.000 0.000 0.000	
Subtotal Management Remarks:			1.172	0.478		0.410		0.399		0.404		0.308	0.000 0.000 0.000	
			1.172			0.410		0.399		0.404		0.308	0.000 0.000 0.000	

CLASSIFICATION:

EXHIBIT R4, Schedule	Profile																								DATE	:						
																											F	ebrua	ry 20	05		
APPROPRIATION/BUDGET RDT&E, N /	ACTIVI BA-5													R AND											D NAM			_4				
RDIGE, N /	DA-3)			1				0604	3/3N	AIrbo	rne w	line C	ounte	ermea	sures					24/3	Airbo	orne N	nine N	leutra	iizatic	on Sy:	stem				
Fiscal Year		20	04			20	05			200	06			20	07			20	800	_		20	09			20	10		1	201	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	1	2	3	4
Acquisition Milestones															MS C △								FRPDI	R (MH-	-60S) loymer	nt						
Prototype Phase	SD&	D Pha	ise (MI	1-60S))																	ioc =										
EDM Contract Award																																
Significant Events			CDR		Alte	nate F	latforn	n Testi	ng		C	ontrac	tor Tes	sting (N	IH-605	;)																
EDM Deliveries									<u></u>																							
Test & Evaluation Milestones														TECHI	EVAL (MH-60)S)															
Development Test Operational Test																				OPEV	AL (M	H-60S) 									
Production Milestones																																
PROD (MH-53E) FY 03														 LRIP ((MH-60)S) Sta	rt															
LRIP (MH-60S) FY 06															\land						FRF	MH-	60S) S	tart								
FRP (MH-60S) FY 07																																
Deliveries																			2 (LI	RIP)	2					3	3	2				

AMNS ONLY

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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						F	February 20	05
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	tralization Sy	stem
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
SD&D Phase (MH-60S)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q			
Critical Design Review (CDR) (MH-60S)	3Q	-, -,		-, -,				
EDM Deliveries (MH-60S)		3Q-4Q	1Q					
Alternate Platform Testing		3Q-4Q	1Q					
Contractor Testing (MH-60S)			4Q	1Q-2Q				
TECHEVAL (MH-60S)				3Q-4Q	1Q-2Q			
Milestone C (MS C)				3Q				
OPEVAL (MH-60S)					3Q-4Q			
LRIP (MH-60S) Start				3Q				
FRPDR (MH-60S)						2Q		
Low-Rate Initial Production (LRIP) Delivery (MH-60S)					3Q			
FRP (MH-60S) Start						2Q		
Initial Operational Capability (IOC) (MH-60S)						2Q		
First Deployment (MH-60S)						2Q		
AMNS ONLY								

CLASSIFICATION:

									DATE:						
Exhibit R-3 Cost Analysis (pag	ge 1)										F	ebruary 20	005		
APPROPRIATION/BUDGET ACTIV	ITY		PROGRAM EL	EMENT			PROJECT N	UMBER AND	NAME			_			
RDT&E, N / BA-5			0604373N Ai	irborne Mine	Counterme	easures	2473 Airbo	rne Mine N	eutralizatior	System					
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost	FY 04	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	C/CPIF	Northrop Grun	nman, FL	5.239	13.691	10/03	5.626	10/04	4.339	11/05	0.649	10/06		29.544	ļ.
Hardware/Software Development	WX	CSS - Panama	a City, FL	1.634			0.614	01/01						2.248	3
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				8.254	13.691		6.240		4.339		0.649		0.000	33.173	3

Remarks: This is RAMICS only .

Engineering Services	C/CPIF	Northrop Grumman, FL	2.177	5.205	10/03	1.290	10/04	1.293	10/05	3.440	10/06	1.500	14.905	
Engineering Services	WX	CSS - Panama City, FL	4.960	1.545	10/03	0.466	10/04	0.322	10/05	0.700	10/06	0.600	8.593	
Engineering Services	Various	Crane - Crane, IN	2.200			0.200				0.300	10/06	0.400	3.100	
Engineering Services	WX	Various	0.725	0.781	10/03			0.880	10/05	0.050	10/06	0.500	2.936	
													0.000	
ILS Functions	C/CPIF	Northrop Grumman, FL	1.309	2.957	10/03	1.783	10/04	0.943	10/05			1.000	7.992	
ILS Functions	WX	CSS Panama City, FL	0.484	0.401	10/03	0.260	10/04	0.255	10/05			0.764	2.164	
ILS Functions	Various	Various		1.500	10/03			0.280	10/05				1.780	
Subtotal Support			11.855	12.389		3.999		3.973		4.490		4.764	41.470	

Remarks: This is RAMICS only .

CLASSIFICATION:

PROPRIATION/EUGET ACTIVITY PROGRAM ELEMENT 9604373N Airborne Mine Countermeasures PROJECT NUMBER AND NAME 2473 Airborne Mine Neutralization System 2473 Airborne Mine Neutralization 2473 Airborne Mine Neutralization 2475 A	APPROPRIATIONEUDGET ACTIVITY PROGRAM ELEMENT 0604373N Airborne Mine Countermeasures 0604373N Airborne Mine Count		DATE:								
Contract Performing Pry s Pry 04 Pry s Pry 04 Pry 05	BA-5	February 2005	1						T======		
Total FY 06 FY 06 FY 06 FY 06 FY 06 FY 06 FY 07 FY 0	Cost Contract Performing Prison			-							
Method Activity & PY s FY 04 Award FV 05 Date Cost Date Dat	Method Activity & Pt's Cost C										
Straight Cost Cost Date Dat	Stype Location										Cost Categories
Sest & Evaluation WX CSS - Panama City, FL 1.130 0.100 10/03 1.917 10/04 2.885 10/05 0.400 10/06 2.000 8.432	Test & Evaluation WX CSS - Panama City, FL 1.130 0.00 1003 1.917 1004 2.885 1005 0.400 1006 2.000 8.43 Test & Evaluation WX Crane - Crane, IN 0.500 1.666 3.142 1003 0.769 1004 0.893 1005 0.167 1006 0.217 1.28 Test & Evaluation Various Various 1.646 3.142 1003 0.769 1004 0.893 1005 1.000 1006 5.000 12.48 Test & Evaluation Various Various Various 0.000 1.046 0.146 0.146 0.000 1006 5.000 12.48 Test & Evaluation Various Various Various 0.000 1.046 0.893 1005 1.000 1006 5.000 12.48 Test & Evaluation Various Various 0.000 1.046 0.000 1006		Cost [Date	Cost	Date	Cost	Cost		& Type	
Sest & Evaluation WX Crane - Crane, IN 0.500 0.216 10/04 0.190 10/05 0.167 10/06 0.217 1.290	Test & Evaluation WX Crane - Crane, IN 0.500 0.216 10/04 0.190 10/05 0.167 10/06 0.217 1.25 Test & Evaluation Various Various Various 1.648 3.142 10/03 0.769 10/04 0.893 10/05 1.000 10/06 5.000 12.45 0.000 0.00	0.489 10/04 3.590 10/05 0.416 10/06 1.521 8.346	3.590	10/04	0.489	10/03	2.248	0.082	Northrop Grumman, FL	C/CPIF	Test & Evaluation
Subtotal T&E Remarks: This is RAMICS only . Management Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.646 10/03 10/05 0.300 10/06 0.000	Test & Evaluation Various Various 1.646 3.142 10/03 0.769 10/04 0.883 10/05 1.000 10/06 5.000 12.45 0.000 1.245 1.000 10/06 5.000 12.45 1.000 10/06 5.	1.917 10/04 2.885 10/05 0.400 10/06 2.000 8.432	2.885	7 10/04	1.917	10/03	0.100	1.130	CSS - Panama City, FL	WX	Test & Evaluation
		0.216 10/04 0.190 10/05 0.167 10/06 0.217 1.290	0.190	10/04	0.216			0.500	Crane - Crane, IN	WX	Test & Evaluation
1.884 0.462 10/03 0.300 10/05 0.300 10/06 0.600 3.646		0.769 10/04 0.893 10/05 1.000 10/06 5.000 12.450	0.893	10/04	0.769	10/03	3.142	1.646	Various	Various	Test & Evaluation
Subtotal T&E 3,358 5,490 3,391 7,558 1,983 8,738 30,518 Remarks: This is RAMICS only . Idenagement Support Various Various 1,684 0,462 10/03 0,300 10/04 0,300 10/05 0,300 10/06 0,600 3,646 10/03 10/05 10/06 0,000 10/06 0,000 0,000 10/06 10/06 0,000 0,000 10/06 10/06 0,000 0,000 10/06 10/06 10/06 10/000 10/06 10/000 10/06 10/0000 10/0000 10/0000 10/0000 10	Subtotal T&E 3.358 5.490 3.391 7.558 1.983 8.738 30.51 Remarks: This is RAMICS only . Management Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.64 Management Support Travel 0.118 0.034 10/03 0.021 10/04 0.300 10/05 0.300 10/06 0.660 0.25	0.000									
Subtotal T&E 3.358 5.490 3.391 7.558 1.983 8.738 30.518 Remarks: This is RAMICS only . Idenagement Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.646 10/03 0.021 10/04 0.000 10/05 0.000 10/06 0.000 0.293 10/06 0.000 0.000 10/06 0.000 0	Subtotal T&E 3.358 5.490 3.391 7.558 1.983 8.738 30.51 Remarks: This is RAMICS only . Management Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.64 Management Support Travel 0.118 0.034 10/03 0.021 10/04 0.030 10/05 0.030 10/06 0.660 0.22 Management Support Travel 0.118 0.034 10/03 0.021 10/04 0.030 10/05 0.030 10/06 0.660 0.22 Colspan="8">Colspan	0.000									
Remarks: This is RAMICS only . Itanagement Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.646 10/03 10/04 0.000 10/05 0.300 10/06 0.600 0.293 10/06 10/06 0.000 0.293 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 10/06 0.000 0.000 10/06 0.00	Remarks: This is RAMICS only . Management Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.584 Management Support Travel 0.118 0.034 10/03 0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.25	0.000									
Remarks: This is RAMICS only . Itanagement Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.646 10/03 10/04 0.000 10/05 0.300 10/06 0.600 0.293 10/06 10/06 0.000 0.293 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 0.000 10/06 0.000 10/06 0.000 0.000 10/06 0.00	Remarks: This is RAMICS only . Management Support Various Various 1.684 0.462 10/03 0.300 10/04 0.300 10/05 0.300 10/06 0.600 3.584 Management Support Travel 0.118 0.034 10/03 0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.25	3.391 7.558 1.983 8.738 30.518	7.558	1	3.391		5.490	3.358			Subtotal T&E
0.000 0.000 0.000 0.000	0.00 0.00										
0.000 0.000 0.000 0.000	0.00 0.00	0.000 40/04 0.000 40/05 0.000 40/05 0.000 2.646	0.200	10/04	0.200	10/02	0.462	4 694	Various	Verious	Management Cuppert
0.000 0.000										Various	
0.000 0.000	Subtotal Management 1.802 0.496 0.321 0.330 0.330 0.660 3.93 Remarks: This is RAMICS only . Total Cost 25.269 32.066 13.951 16.200 7.452 14.162 109.10	0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293								Various	.,
	Subtotal Management 1.802 0.496 0.321 0.330 0.330 0.660 3.93 Remarks: This is RAMICS only . Total Cost 25.269 32.066 13.951 16.200 7.452 14.162 109.10	0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.0								Various	
	Remarks: This is RAMICS only . Total Cost 25.269 32.066 13.951 16.200 7.452 14.162 109.10	0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.000 0.000 0.000								Various	.,
Subtotal Management 1.802 0.496 0.321 0.330 0.330 0.330 3.939	Remarks: This is RAMICS only . Total Cost 25.269 32.066 13.951 16.200 7.452 14.162 109.10	0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.000 0.000 0.000 0.000								Various	.,
	Remarks: This is RAMICS only . Total Cost	0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293								Various	
		0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000	0.030	1 10/04	0.021		0.034	0.118		Various	Management Support
Remarks: This is RAMICS only .		0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.030	1 10/04	0.021		0.034	0.118			Management Support Subtotal Management
Remarks: This is RAMICS only .		0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.030	1 10/04	0.021		0.034	0.118			Management Support Subtotal Management
	Remarks: This is RAMICS only.	0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.000 0.000 0.000 0.000 0.321 0.330 0.330 0.660 3.939	0.030	1 10/04	0.021		0.034	0.118			Management Support Subtotal Management Remarks: This is RAM
otal Cost 25.269 32.066 13.951 16.200 7.452 14.162 109.100		0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.000 0.000 0.000 0.000 0.321 0.330 0.330 0.660 3.939	0.030	1 10/04	0.021		0.034	0.118		MICS only .	Management Support Subtotal Management Remarks: This is RAM
otal Cost 25.269 32.066 13.951 16.200 7.452 14.162 109.100		0.021 10/04 0.030 10/05 0.030 10/06 0.060 0.293 0.000 0.000 0.000 0.000 0.000 0.321 0.330 0.330 0.660 3.939	0.030	1 10/04	0.021		0.034	0.118		MICS only .	Management Support Subtotal Management Remarks: This is RAM

CLASSIFICATION:

EXHIBIT R4, Schedule	Profile)																							DATE	:	F	ebrua	ry 20	005		
APPROPRIATION/BUDGE RDT&E, N /	T ACTIV BA-													R AND											D NAM leutra							
Fiscal Year		20	004			20	05			20	06			200	07			20	800			200	09			20	010			201	11	
7.504.7.64	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																			I	ωs c △						F	RPD	IOC				
Program Phases	Syste	em De	velopm	ent ar	nd Dem	onstra	ition (S	SD&D)																								
Significant Events			CDR																													
EDM Delivery													EDI	(1 (2)																		
Test & Evaluation Milestones Development Test Operational Test														CT/D	T Alt P	lat	ст	(MH-	60S)		T	ECHE	VAL (M		S) VAL							
Production Milestones LRIP FY09 FRP FY 10																					LRIP	Start					FRF	Start			↓	
Deliveries																					₩ LRIP (2	2)	Prod (4)			Prod (6)			Prod (5	5)

RAMICS ONLY

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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	ebruary 20	05
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	FMFNT			PROJECT NU			
RDT&BA-5		irborne Mine	Countermes	SCIITAC	2473 Airbori			stam
=							FY 2010	
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
System Development and Demonstration (SD&D) Phase	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q		
Critical Design Review (CDR)	3Q			00.00				
Contractor Testing (CT) - Alternate Platform				2Q-3Q	20.20			
Contractor Testing (CT) - MH-60S				10	2Q-3Q			
Engineering Development Model (EDM) Delivery (2 units)				1Q				
Technical Evaluation (TECHEVAL) - Alternate Platform				3Q-4Q		20.20		
Technical Evaluation (TECHEVAL) - MH-60					10	2Q-3Q		
Milestone (MS) C					4Q	40		
Start Low Rate Initial Production (LRIP)						1Q	40	
Operational Evaluation (OPEVAL)						4Q	1Q 3Q	
Full Rate Production Decision (FRPD)								
LRIP Production Delivery (2 Units)							2Q	
Initial Operational Capability (IOC)							4Q	
Full Rate Production Start							4Q	40
First Production Delivery (5 units)								4Q
					1			
					1			
DAMICO ONLY								
RAMICS ONLY								

R-1 SHOPPING LIST - Item No.

107

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N A	Airborne Mir	ne Countern	neasures		4026 - C4I,	Tactics, and	d Mission Pl	lanning		
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Program
Project Cost	0.000	0.000	1.257	1.827	1.560	1.371	1.310	1.335	1.356	Continuing	Continuing
RDT&E Articles Qty											0

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

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.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justif	ication			DATE:	
					uary 2005
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME	PROJECT NUMBER AND N	AME	
DT&E, N / BA-5	0604373N Airborne Mine Cou	ntermeasures	4026 - C4I, Tactics, and	d Mission Planning	
B. Accomplishments/Planned Program					
	FY 04	FY 05	FY 06	FY 07	٦
Accomplishments/Effort/Subtotal Cost	1104	0.625	0.570	0.346	†
RDT&E Articles Quantity		0.020	0.570	0.040	-
NOTAL Articles Quantity	I				
Mission Planning and Post Mission Analysi	s (MEDAL)				
Thiodien's familing and 1 det micelen's tharyen	5 (M25/12)				
	FY 04	FY 05	FY 06	FY 07	7
Accomplishments/Effort/Subtotal Cost	1.1.5	0.310	0.745	0.740	
RDT&E Articles Quantity					1
112 1 GIZ 7 II BOIOG Quality					_
Common Post Mission Analysis (PMA)					
Common to continuous in a many cite (in many)					
	FY 04	FY 05	FY 06	FY 07	7
Accomplishments/Effort/Subtotal Cost		0.322	0.512	0.474	1
RDT&E Articles Quantity					
Total	-	1.257	1.827	1.560	_
Tactics Evaluation, Data Bases, and Algor	rithms				
Tactics Documentation and Training					
Tables Desamentation and Training					

CLASSIFICATION:

EXHIBIT R-2a, RDT&E	Project Justification								DATE:	Februa	ry 2005
APPROPRIATION/BUDGE	T ACTIVITY		PROGRAM EI	EMENT NUM	BER AND NAM	ЛЕ	PROJECT NU	MBER AND N	AME	i ebi ua	ily 2003
RDT&E, N /	BA-5		0604373N A				4026 - C4I,			lanning	
(II) C OTHER BRO	GRAM FUNDING SUMMARY:										
(U) C. OTHER PRO	GRAW FUNDING SUMMART:									То	Total
Line Item No. & Na	ame_	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	<u>Complete</u>	Cost
N/A											
(U) D. ACQUISITION	STRATEGY:										
NSWC-PC. The Development of transition to a FI NSWC-PC. The	on Post-Mission Analysis (CPM, e CPMA project will leverage exi OAMCM-system-specific MEDA leet release. NSWC-PC will corese efforts will provide reach bac g; will update the MIW Tactics C	sting system AL modules stract for this ck support a	n-specific develowill be performed work on a time so the OAMCM so	opmental PMA ed by SAIC, Mo and materials systems begin	software, max cLean, VA. Thi basis. The tac to be fielded; w	imize common s effort will indetics developm vill develop ma	nality, and host clude post-test unent, tactics trai podifications to er	the software or updates for the ning, and taction nvironmental da	a common sh system-specif s algorithms/c atabases nece	nipboard compute ic MEDAL module latabase efforts a ssary to support	er. es to allow re performed by

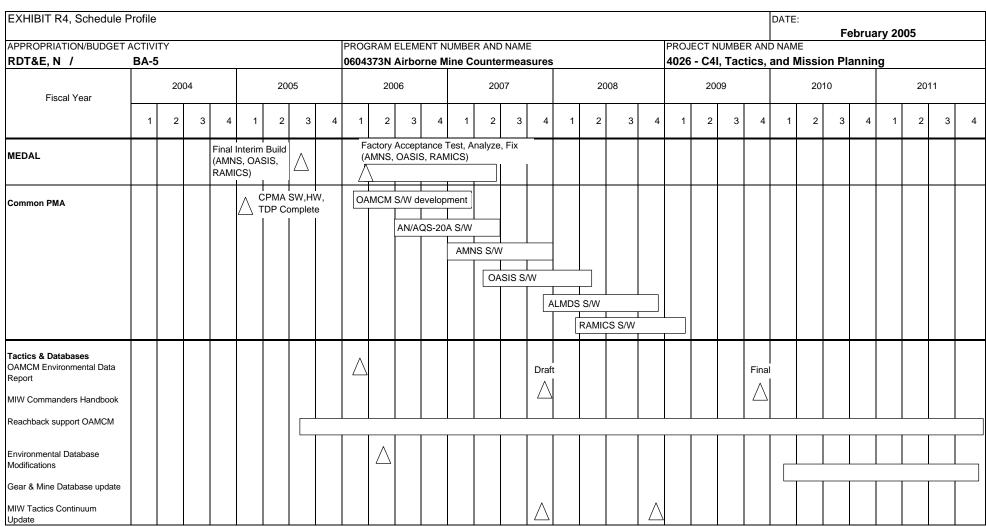
CLASSIFICATION:

								DATE:						
Exhibit R-3 Cost Analysis (pa	age 1)										February	2005		
APPROPRIATION/BUDGÉT ACTI		PROG	RAM ELEMENT			PROJECT NU	IMBER AND I	NAME						
RDT&E, N / BA-5		0604	373N Airborne I	line Counte				nd Mission F	Planning					
Cost Categories	Method	Performing Activity & Location	Total PY s Cost	FY 04 Cost	FY 04 Award Date	FY 05	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development		SAIC				0.300		0.455		0.255		Continuing	Continuing	
Hardware/Software Development	RCP	Northrop Grumman				0.295						0.000		
Hardware/Software Development	wx	NSWC, Panama City	, FL					0.424	10/05	0.404	10/06	Continuing	Continuing	
•													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal Product Development			0.0	0.00)	0.595		0.879)	0.659	1	0.000	2.133	
Engineering Services	RX	SAIC				0.214	10/04	0.000				0.000	0.214	
Engineering Services	WR	NAVO				0.015		0.015		0.015	10/06	Continuing	Continuing	
Engineering Services	VAR	Various						0.369	10/05	0.270	10/06	Continuing	Continuing	
Engineering Services	wx	NSWC, Panama City, F	L			0.306	10/04	0.404		0.416	10/06	Continuing	Continuing	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal Support			0.0	0.00	D	0.535		0.788	3	0.701		Continuing	Continuing	
Remarks:				ADDING LIST										

CLASSIFICATION:

								DATE:						
Exhibit R-3 Cost Analysis (page	ge 2)	T				1				F	ebruary 2	2005		
APPROPRIATION/BUDGET ACTIV	'ITY	PROGRAM E					NUMBER AN							
RDT&E, N / BA-5	1-		Airborne Mi	ne Counte		4026 - C4		, and Missio		9	I			
Cost Categories	Contract	Performing	Total	EV 04	FY 04	EV 05	FY 05	EV 00	FY 06	EV 07	FY 07	0	T-4-1	T+ \ /
	Method	Activity &	PY s Cost	FY 04	Award Date	FY 05 Cost	Award Date	FY 06 Cost	Award Date	FY 07 Cost	Award Date	Cost to	Total Cost	Target Value of Contract
Total and Evaluation	& Type	NSWC, Panama City, FL	Cost	Cost	Date	Cost	Date	Cost	Date			Complete		oi Contract
Test and Evaluation	WX	NSWC, Panama City, FL						+		0.040	10/06	Continuing	- ×	
								_				-	0.000	
												1	0.000	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal T&E			0.000	0.000	o	0.00	0	0.000		0.040		Continuing	Continuing	
Management Support	WX	NSWC, Panama City, FL						0.140	10/05	0.140	10/06	Continuing	Continuing	
Management Support	RX	SAIC				0.12	7 10/04	0.020	10/05	0.020	10/06	Continuing	Continuing	
													0.000	
													0.000	
													0.000	
													0.000	
Subtotal Management			0.000	0.000	0	0.12	7	0.160		0.160		Continuing	Continuing	
Remarks:														
Total Cost			0.000	0.000	0	1.25	7	1.827		1.560		Continuing	Continuing	
Remarks:														

CLASSIFICATION:



CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						l i	ebruary 20	05
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA		
RDT&E, N / BA-5	0604373N A	irborne Mine	Countermea	sures	4026 - C4I,	Tactics, and	Mission Pl	anning
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
AMNS, OASIS, and RAMICS final interim MEDAL Build		3Q						
Common PMA SW, HW. TDP Complete		1Q						
Reachback support for OAMCM Systems		3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
OAMCM CPMA Core Software Development			1Q-4Q	1Q				
OAMCM Environmental Data Report			1Q					
MEDAL FAT, Analyze and Fix (AMNS, OASIS, RAMICS)			1Q-4Q	1Q-2Q				
Environmental Database Modifications			2Q					
Common PMA - AN/AQS-20A Software			3Q-4Q	1Q-2Q				
Common PMA - AMNS Software				1Q-4Q				
Common PMA - OASIS Software				2Q-4Q	1Q-2Q			
Common PMA - ALMDS Software				4Q	1Q-4Q			
MIW Commanders Handbook (Draft)				4Q				
MIW Tactics Continuum (OAMCM) Initial				4Q				
Common PMA - RAMICS Software					1Q-4Q	1Q		
MIW Tactics Continuum (OAMCM) update					40			
MIW Commanders Handbook (Final)						4Q		
Gear & Mine Database (OAMCM) update							1Q-4Q	1Q-4Q
(· · · · · · · · · · · · · · · · · · ·								
					+			

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2005	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	IE	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604373N Ai	irborne Mine	Countermea	sures		9179 Surfac	e Navy Integ	rated Unders	ea Tactical T	Гесhnology	
	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	3.692	0.000	0.000	0.000	1.486	0.000	0.000	0.000	0.000	0.000	5.178
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/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:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA -5	0604373N Airborne Mine Countermeasures	Q9179 Surface Navy Inte	egrated Undersea Tactical Technology

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	1.486	0.000	0.000
RDT&E Articles Quantity				

Congressional Add. - Investigate development of an 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-3 Cost Analysis (pa	age 1)											February 20	05	
APPROPRIATION/BUDGET ACTI	VITY	PROGRAM	ELEMENT					PROJECT N	JMBER AND	NAME		•		
RDT&E, N / BA-5			Airborne Mine	e Counter				9179 Surfa		tegrated Unde		al Technology (SI	NIUTT)	
Cost Categories	Contract Method	Activity &	Total PY s	FY 04	FY 04 Award	FY 05	FY 05 Award	FY 06	FY 06 Award	FY 07	FY 07 Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Hardware/Software Development	C/CPFF	AAC, Ronkonkoma, NY	3.359			1.230	03/05	_					4.59	
													0.0	
							-	_					0.0	
							+						0.0	
							+						0.00	
			_				1						0.00	
			_				1						0.00	
													0.00	
													0.00	
Subtotal Product Development			3.359			1.23	6	0.00)	0.00	00	0.00	0 4.59	95
Remarks:														
Remarks:														
	WR	NSWC, PC Panama City, FL	0.333			0.25(03/05		1				0.53	
Development Support	WR	NSWC, PC Panama City, FL	0.333			0.25	0 03/05						0.0	00
Development Support Software Development	WR	NSWC, PC Panama City, FL	0.333			0.25	03/05						0.00	00
Development Support Software Development Training Development	WR	NSWC, PC Panama City, FL	0.333			0.25	03/05						0.00 0.00 0.00	00
Development Support Software Development Training Development Integrated Logistics Support	WR	NSWC, PC Panama City, FL	0.333			0.25	03/05						0.00	00
Development Support Software Development Training Development Integrated Logistics Support Configuration Management	WR	NSWC, PC Panama City, FL	0.333			0.25	03/05						0.00 0.00 0.00	00
Development Support Software Development Training Development Integrated Logistics Support Configuration Management Technical Data GFE	WR	NSWC, PC Panama City, FL	0.333			0.25	03/05						0.00 0.00 0.00	00 00 00 00 00 00 00 00 00 00 00 00 00
Development Support Software Development Training Development Integrated Logistics Support Configuration Management Technical Data	WR	NSWC, PC Panama City, FL	0.333			0.25	03/05						0.00 0.00 0.00 0.00	00 00 00 00 00 00
Development Support Software Development Fraining Development Integrated Logistics Support Configuration Management Fechnical Data GFE Award Fees	WR	NSWC, PC Panama City, FL	0.333			0.25		0.00		0.00	000	0.00	0.00 0.00 0.00 0.00 0.00 0.00	00 00 00 00 00 00 00 00
Development Support Software Development Training Development Integrated Logistics Support Configuration Management Technical Data GFE Award Fees Subtotal Support	WR	NSWC, PC Panama City, FL						0.00		0.00	000	0.00	0.00 0.00 0.00 0.00 0.00 0.00	00 00 00 00 00 00 00
Development Support Software Development Training Development Integrated Logistics Support Configuration Management Technical Data GFE Award Fees	WR	NSWC, PC Panama City, FL						0.00		0.00	300	0.00	0.00 0.00 0.00 0.00 0.00 0.00	00 00 00 00 00 00 00 00 00 00 00 00 00
Development Support Software Development Training Development Integrated Logistics Support Configuration Management Technical Data GFE Award Fees Subtotal Support	WR	NSWC, PC Panama City, FL						0.00		0.00		0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	00 00 00 00 00 00 00 00 00 33