

CLASSIFICATION:

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EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /BA-5					Airborne Mine Countermeasures / 0604373N					
COST (\$ in Millions)		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Total PE Cost		49.573	61.097	67.240	67.027	24.861	10.872	0.000	0.000	474.469
Airborne Mine Hunt Systems/ Q0529/Q2884*		17.625	11.148	16.045	5.536	0.000	0.000	0.000	0.000	197.552
ALMDS / Q2047		17.303	13.949	18.456	9.324	0.000	0.000	0.000	0.000	81.670
OASIS/ Q2427/Q2883*		4.991	14.307	10.778	15.445	7.183	0.000	0.000	0.000	61.696
AMNS / Q2473/Q9069*		9.654	21.693	21.961	36.722	17.678	10.872	0.000	0.000	133.551
Quantity of RDT&E Articles										
* Funding includes the following FY02 Adds: AQS-20 Airborne Minehunting Sonar-\$2.500M; RTASS Project -\$2.800M; CH-60S Untethered Airborne Mine Neutralization-\$4.300M										
A. Mission Description and Budget Item Justification: This program develops airborne mine countermeasures systems that are required to counter known and projected mine threats. It provides a capability to locate pressure-combination and sweep resistant mines at greater coverage rates and by more rapidly deployable means. It also provides a non-acoustic mine detection and classification capability against floating and tethered mines using Light Detection and Ranging (LIDAR) techniques. Cable improvements will provide higher reliability, longer life and higher current capacity. This program is funded under ENGINEERING & MANUFACTURING DEVELOPMENT because it encompasses engineering and manufacturing development of new end-items and MH-60S integration prior to production approval decision.										
B. Program Change Summary					FY 2001	FY 2002	FY 2003			
(U) FY 2002 President's Budget:					50.842	52.041	54.081			
(U) Appropriated Value:					51.312	61.641				
(U) Adjustments to FY 2001/2002										
Appropriated Value/FY 2002										
President's Budget:					-1.739	-0.544	13.159			
(U) FY 2003 Pres Budget Submit:					49.573	61.097	67.240			
Funding: FY01 reflects decreased funding due to SBIR (-\$1.070M), Congressional .7% Pro-rata (-\$.359M), Government-Wide recission (-\$.111M), and general execution reductions (-\$.199M). FY 02 reflects Management Reform initiative (-\$.544). FY03 reflects increased funding for the AN/AQS-20/X EMD effort (+\$15.217M), Adjust OASIS (-\$.033M), Repricing of ALMDS (-\$6.177M), Restructure RAMICS (+\$6.049M), a reduction for SYSCOM Contractor Support (-\$.379M), PBD 404 & 604 (-\$1.568M), and general adjustments (+\$.050M).										

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DATE:

February 2002

APPROPRIATION/BUDGET ACTIVITY

RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /BA-5

R-1 ITEM NOMENCLATURE

Airborne Mine Countermeasures / 0604373N

B. Program Change Summary: (Cont'd)

Schedule: Acquisition Strategy for the Organic Airborne Mine Countermeasure programs has changed in order to reflect restructuring necessary to integrate MH-60S assets necessary to support testing. The AN/AQS-20/X program was restructured which shifts TECHEVAL from FY02 to FY03, OPEVAL from FY02 to FY04, establishes Milestone (MS) C, Full Rate Production Decision Review (FRPDR) in FY05. The ALMDS program establish a MS-C in FY04 to permit EDM refurb after OPEVAL and introduction in mid FY05. FRPDR is late FY04 . The OASIS program was restructured which shifts MS-B from FY00 to FY02, TECHEVAL shifts from FY03 to FY04, OPEVAL shifts from FY04 to FY05, and MS-C is scheduled for FY05 with a Limited Rate Production(LRIP), FRPDR is late FY05 . The MH53E portion of the AMNS program's OPEVAL shifted from FY01 to FY02, Program Decision Memorandum shifted from FY01 to FY02. The MH60S portion of the AMNS program was restructured which shifts TECHEVAL from FY03 to FY04, OPEVAL from FY03 to FY04, establishes MS-C in FY04 for MH-60S LRIP. FRPDR is mid FY05. The RAMICS program acquisition strategy establishes MS-C in FY05 for FY06 LRIP to achieve introduction in FY07. This requires acceleration of system CDR into FY03; Contractor Testing to FY04, TECHEVAL to early FY05; OPEVAL initiation in late FY05 with FRPDR in FY06.

Technical: N/A

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NAME AND NUMBER				PROJECT NAME AND NUMBER					
RDT&E, N , BA-5	Airborne Mine Countermeasures/0604373N				Airborne Mine Hunt Systems/Q0529/Q2884					
COST (\$ in Millions)		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Project Cost		17.625	11.148	16.045	5.536	0.000	0.000	0.000	0.000	197.552
RDT&E Articles Qty		2								

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 high speed minefield reconnaissance to determine mine density and location. The AN/AQS-20/X is being developed to address the emergent requirement for mine identification and to integrate AMCM systems with a MH-60S platform. The AN/AQS-20/X will also be the minehunting sonar component for the Remote Minehunting System (RMS). The AN/AQS-20/X will be developed to meet the requirements of the Organic MCM platforms. The Laser Line Scan System (LLSS) provides interim identification capability to the AQS-14A minehunting system.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:**1. (U) FY 2001 ACCOMPLISHMENTS:**

- (U) (\$10.734) AN/AQS-20/X – Continued fabrication/integration of EDMs.
- (U) (\$3.962) AN/AQS-20/X – Completed Critical Design Review.
- (U) (\$1.055) LLSS – Completed modification of the AQS-14.
- (U) (\$909) LLSS – Developed of support equipment and publications.
- (U) (\$.965) (Cong Add) AN/AQS-20/X – Increased Sonar Data Recording Capability .

2. (U) FY 2002 PLAN:

- (U) (\$3.698) AN/AQS-20/X – Complete hardware integration of Towed Body with MH60 Console and parallel towed body/MH60 Console Hardware-Software Integration, Tests/Complete fabrication/integration of EDM.
- (U) (\$3.392) AN/AQS-20/X - Continue Engineering Support of EDM fabrication and Contractor Testing.
- (U) (\$.320) AN/AQS-20X - Test and Evaluation Support/Athena (Test Vessel Support).
- (U) (\$1.260) AN/AQS-20/X - Tech Data Package/Baseline Change Proposals.
- (U) (\$2.478) (cong add) AN/AQS-20X - Enhanced Capability for EDM's.

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3. (U) FY 2003 PLAN: - (U) (\$6.823) AN/AQS-20/X – EDM testing with maintainability improvements. Parallel MH60 Console Test and Common Console/Aircraft integration. - (U) (\$4.000) AN/AQS-20X - Acquire EOID test units. - (U) (\$5.222) AN/AQS-20X - Continue Engineering Support. Conduct Tow Test and Contractor Demonstration. Conduct TECHEVAL. B. Other Program Funding Summary <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: right;">FY 2001</th> <th style="text-align: right;">FY 2002</th> <th style="text-align: right;">FY 2003</th> <th style="text-align: right;">FY 2004</th> <th style="text-align: right;">FY 2005</th> <th style="text-align: right;">FY 2006</th> <th style="text-align: right;">FY 2007</th> <th style="text-align: right;">To Complete</th> <th style="text-align: right;">Total Cost</th> </tr> </thead> <tbody> <tr> <td>OPN 424800</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>AQS-20</td> <td style="text-align: right;">21.486</td> <td style="text-align: right;">22.226</td> <td style="text-align: right;">13.061</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">78.867</td> </tr> <tr> <td>AN/AQS-14A LLSS</td> <td style="text-align: right;">4.263</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">4.263</td> </tr> <tr> <td>AQS-20/X</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">1.000</td> <td style="text-align: right;">34.139</td> <td style="text-align: right;">26.431</td> <td style="text-align: right;">63.503</td> <td style="text-align: right;">CONT.</td> <td style="text-align: right;">CONT.</td> </tr> </tbody> </table> C. Acquisition Strategy: Starting in FY01 procure six (6) LRIP MH-53E systems and two (2) AN/AQS-20 bodies in FY02 which will be modified to AN/AQS-20/X. Following a successful DT and MS C, Sole source MH-60S system procurement will start in FY05 with a Full Rate Procurement contract following a Full Rate Production Decision Review (FRPDR). FY01 provided for procurement of four (4) systems AN/AQS-14A with LLSS. D. Schedule Profile: See attached.											FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost	OPN 424800										AQS-20	21.486	22.226	13.061	0.000	0.000	0.000	0.000	0.000	78.867	AN/AQS-14A LLSS	4.263	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.263	AQS-20/X	0.000	0.000	0.000	1.000	34.139	26.431	63.503	CONT.	CONT.
	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost																																																		
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AQS-20	21.486	22.226	13.061	0.000	0.000	0.000	0.000	0.000	78.867																																																		
AN/AQS-14A LLSS	4.263	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.263																																																		
AQS-20/X	0.000	0.000	0.000	1.000	34.139	26.431	63.503	CONT.	CONT.																																																		

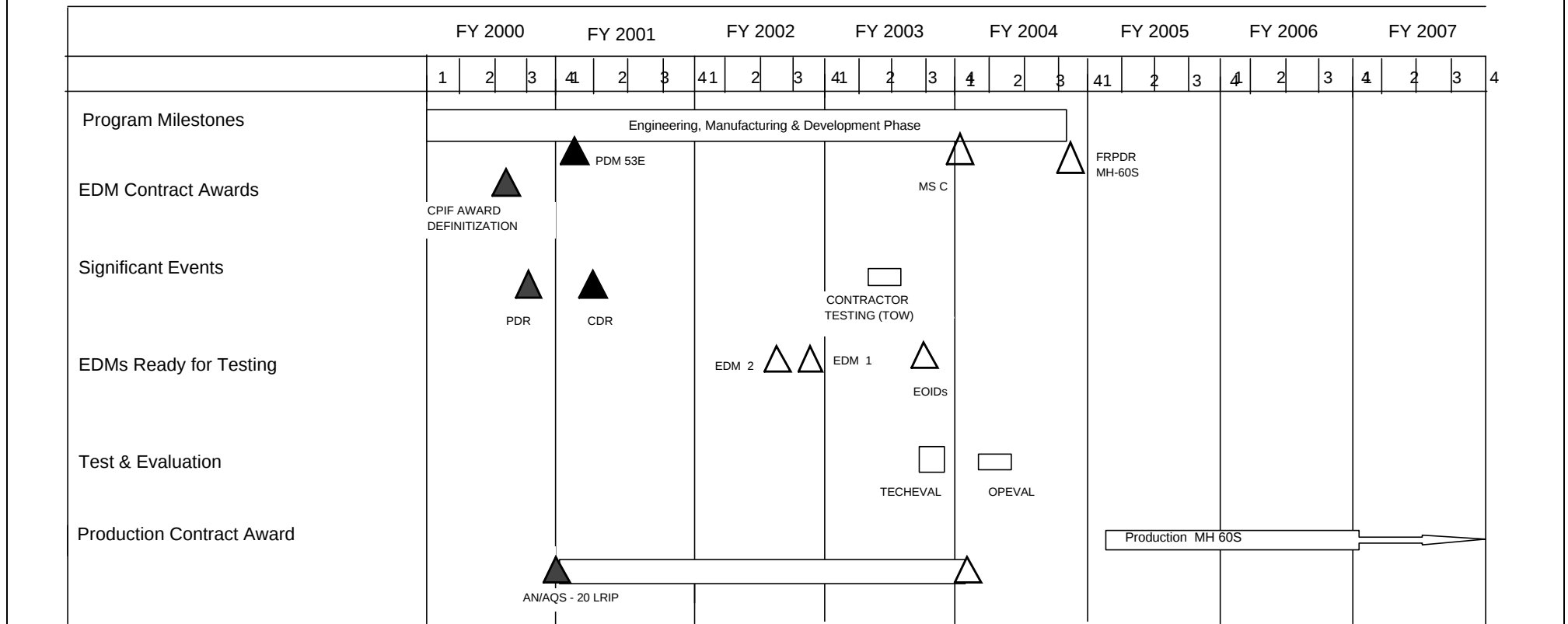
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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N , BA-5		PROGRAM ELEMENT NAME AND NUMBER Airborne Mine Countermeasures/0604373N		PROJECT NAME AND NUMBER Airborne Mine Hunt Systems/Q0529/Q2884	

AN/AQS-20/X Schedule



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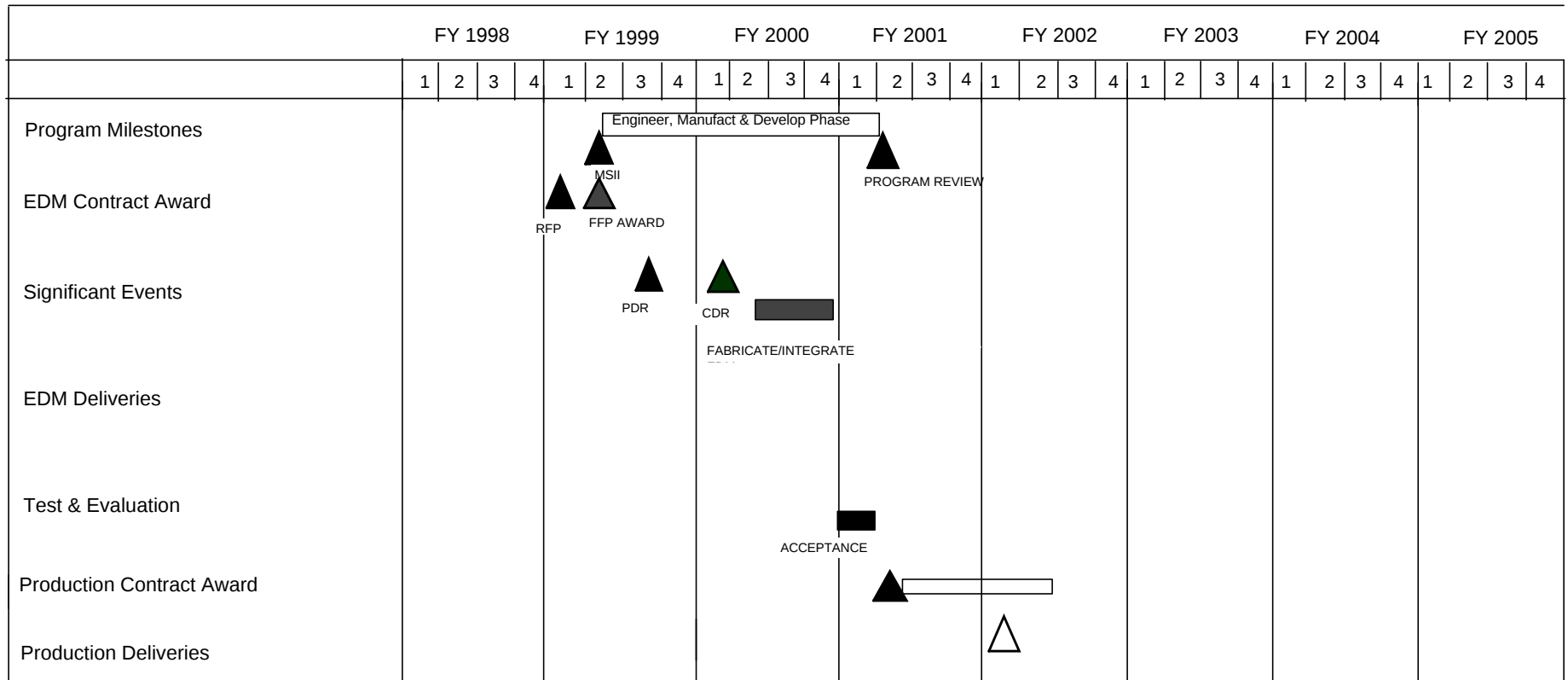
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AN/AQS-14A with Laser Line Scan



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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Airborne Mine Hunt Systems/Q0529/Q2884						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development												
Hardware/Software Development	C/CPFF	Raytheon, Portsmouth, RI	60.150								60.150	
Hardware/Software Development	SS/CPIF	Raytheon, Portsmouth, RI	4.801	8.583	02/01	3.705	10/01	7.756	10/02	0.000	24.845	
Hardware/Software Development	C/FP	Lockheed, NY	4.572								4.572	
Hardware/Software Development	WR	CSS Panama City, FL	4.966			0.456	10/01	0.749	10/02	0.000	6.171	
Hardware/Software Development	SS/CPIF	Raytheon, RI (Cong Add)		0.965	7/01	2.478					3.443	
Hardware/Software Development												
Subtotal Hardware/Software Development			74.489	9.548		6.639		8.505		0.000	99.181	
Remarks:												
Engineering Services												
Engineering Services	WR	CSS Panama City, FL	16.453	2.213	10/00	2.544	10/01	1.705	10/02	2.060	24.975	
Engineering Services	C/CPFF	Raytheon, Portsmouth, RI	1.500								1.500	
Engineering Services	VAR	Various	38.380	0.282	11/00						38.662	
Engineering Services	SS/CPIF	Raytheon, Portsmouth, RI	1.500	0.441	02/01	0.848	10/01	0.700	10/02	0.300	3.789	
Subtotal Engineering Services			57.833	2.936		3.392		2.405		2.360	68.926	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Airborne Mine Hunt Systems/Q0529/Q2884						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Management Support												
Management Support	VAR	Various	8.991	1.252	10/00	0.502	10/01	0.390	10/02	0.350	11.485	
Travel			0.174	0.095		0.060		0.060		0.060	0.449	
Subtotal Management Support			9.165	1.347		0.562		0.450		0.410	11.934	
Remarks:												
Test & Evaluation Functions												
T&E Functions	WR	CSS Panama City	1.848	1.361	10/00	0.320	10/01	2.307	10/02	1.670	7.506	
T&E Functions	SS/CPIF	Raytheon, Portsmouth, RI	0.000	0.422	7/01			0.770	10/02	0.300	1.492	
T&E Functions	VAR	Various	0.200	0.343	10/00			0.200	10/02	0.220	0.963	
Subtotal Test & Evaluation Functions			2.048	2.126		0.320		3.277		2.190	9.961	
Remarks:												
ILS Functions	WR	CSS Panama City	3.663	0.606	10/00	0.235	10/01	0.908	10/02	0.576	5.988	
ILS Functions	SS/CPIF	Raytheon, Portsmouth, RI	0.000	0.326	2/01			0.500	10/02	0.000	0.826	
ILS Functions	VAR	Various	0.000	0.736							0.736	
Subtotal ILS Functions			3.663	1.668		0.235		1.408		0.576	7.550	
Remarks:												
Total Cost			147.198	17.625		11.148		16.045		5.536	197.552	

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Exhibit R-3, Project Cost Analysis
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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N , BA-5	PROGRAM ELEMENT NAME AND NUMBER Airborne Mine Countermeasures/0604373N				PROJECT NAME AND NUMBER Airborne Laser Mine Detection Systems/Q2047					
COST (\$ in Millions)		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Project Cost		17.303	13.949	18.456	9.324	0.000	0.000	0.000	0.000	81.670
RDT&E Articles Qty		3								

A. Mission Description and Budget Item Justification

Airborne Laser Mine Detection Systems (ALMDS), AN/AES-1 is a light detection and ranging (LIDAR) system for rapid detection, classification, and localization of floating and near surface tethered mines. It will be deployed on the MH-60S as part of the OAMCM suite of systems.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS

1. (U) FY 2001 ACCOMPLISHMENTS:

- (U) (\$5.950) Completed preliminary design (conduct PDR) and final design (conduct CDR).
- (U) (\$7.693) Began EDM development and software coding.
- (U) (\$0.650) Continued performance model baselining.
- (U) (\$2.003) Continued ILS.
- (U) (\$1.007) Completed platform integration analyses (combat system coordination).

2. (U) FY 2002 PLANS

- (U) (\$11.608) Continue EDM development and software coding.
- (U) (\$0.140) Complete performance model baselining.
- (U) (\$2.201) Continue ILS.

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3. (U) FY 2003 PLANS - (U) (\$9.282) Continue EDM development and software coding. - (U) (\$7.458) Contractor Testing and TECHEVAL. - (U) (\$1.716) Continue ILS. B. Other Program Funding Summary <table style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 8%;">FY 2001</th> <th style="width: 8%;">FY 2002</th> <th style="width: 8%;">FY 2003</th> <th style="width: 8%;">FY 2004</th> <th style="width: 8%;">FY 2005</th> <th style="width: 8%;">FY 2006</th> <th style="width: 8%;">FY 2007</th> <th style="width: 8%;">To Complete</th> <th style="width: 8%;">Total Cost</th> </tr> </thead> <tbody> <tr> <td>OPN 424800</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>ALMDS</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">11.374</td> <td style="text-align: center;">22.772</td> <td style="text-align: center;">24.108</td> <td style="text-align: center;">54.063</td> <td style="text-align: center;">CONT.</td> <td style="text-align: center;">CONT.</td> </tr> </tbody> </table> C. Acquisition Strategy: Milestone II was accomplished April 2000 and ALMDS EDM contract was awarded April 2000 by competition. In FY04, following a successful DT and MS C, the EMD program will use OPN funding to refurbish EDM systems (3) for fleet use. Full and open competition is planned for ALMDS procurement in FY05 following FRPDR. D. Schedule Profile: See attached.											FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost	OPN 424800										ALMDS	0	0	0	11.374	22.772	24.108	54.063	CONT.	CONT.
	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost																														
OPN 424800																																							
ALMDS	0	0	0	11.374	22.772	24.108	54.063	CONT.	CONT.																														

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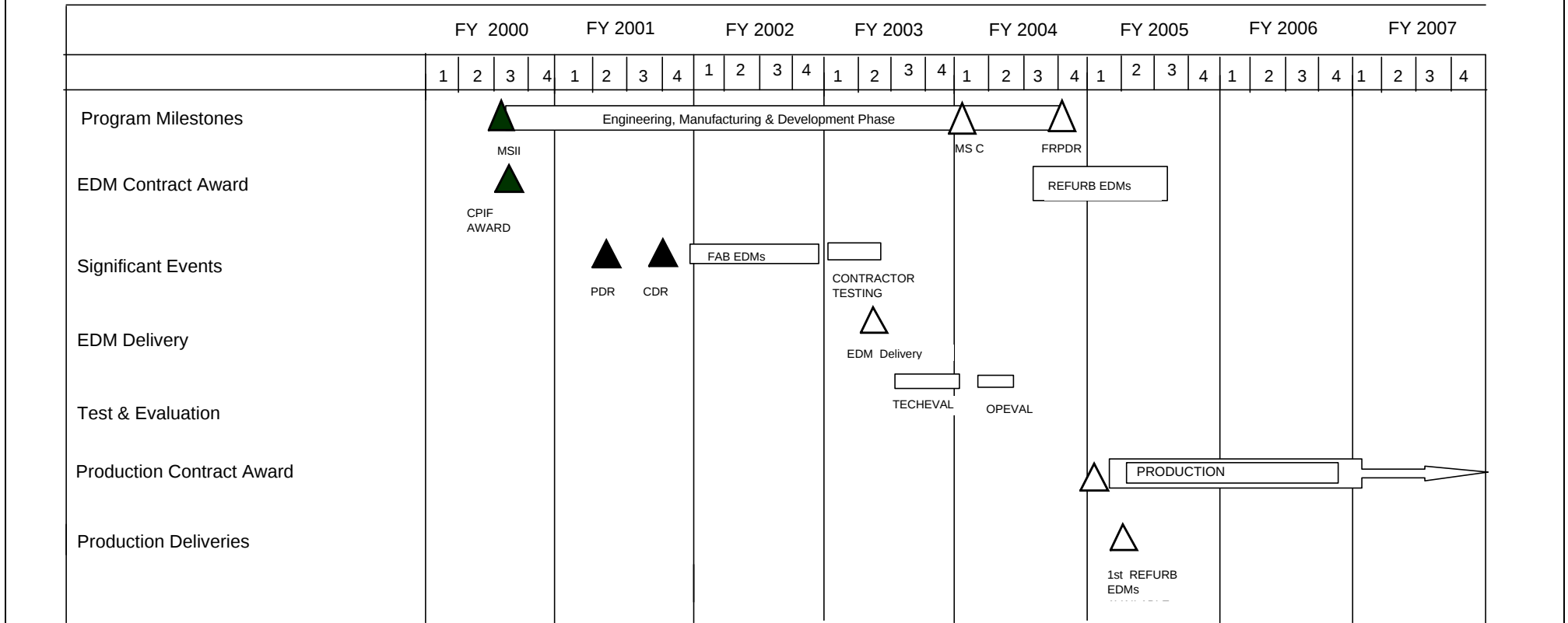
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AN/AES-1 Schedule



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Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY01 Cost	FY 01 Award Date	FY02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	WR	CSS, Panama City	0.390			0.075	10/01	0.100	10/02	0.200	0.765	
Hardware/Software Development	RCP	CSS (Prime-Northrop Grum)	7.869	6.711	12/00	4.506	10/01	1.300	10/02	0.000	20.386	
Hardware/Software Development	RCP	Metron	0.225	0.200	12/00	0.200	10/01	0.200	10/02	0.000	0.825	
Subtotal Hardware/Software Development			8.484	6.911		4.781		1.600		0.200	21.976	
Remarks:												
Engineering Services	WR	CSS, Panama City	4.958	1.471	11/00	0.937	10/01	2.247	10/02	1.833	11.446	
Engineering Services	WR	NRL Stennis	0.194	0.060	11/00						0.254	
Engineering Services	RCP	CSS (Prime-Northrop Grum)	3.816	3.330	12/00	2.486	10/01	1.449	10/02	0.000	11.081	
Engineering Services	RCP	CSS, Panama City	0.075								0.075	
Engineering Services	RCP	Metron	0.590	0.767	12/00	0.400	10/01	0.300	10/02	0.423	2.480	
Engineering Services	RCP	NRL Stennis	0.430	0.430	11/00						0.860	
Engineering Services	VAR	VARIOUS	0.275	0.131	11/00	0.130	10/01	1.130	10/02	0.225	1.891	
Subtotal Engineering Services			10.338	6.189		3.953		5.126		2.481	28.087	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Airborne Laser Mine Detection Systems/Q2047						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY01 Cost	FY 01 Award Date	FY02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Management Support												
Management Support	VAR	Various	1.181	1.483	12/00	2.116	10/01	2.506	10/02	2.358	9.644	
Management Support		Travel	0.100	0.070		0.050		0.050		0.050	0.320	
Subtotal Management Support			1.281	1.553		2.166		2.556		2.408	9.964	
Remarks:												
Test & Evaluation Functions												
T&E Functions	WR	CSS, Panama City	0.104	0.095	11/00			5.489	10/02	2.660	8.348	
T&E Functions	RCP	CSS (Prime-Northrop Grum)		0.160	11/00	0.848	10/01	1.294			2.302	
T&E Functions	VAR	Various		0.392	01/01			0.675	10/02	1.350	2.417	
Subtotal Test & Evaluation Functions			0.104	0.647		0.848		7.458		4.010	13.067	
Remarks:												
ILS Functions												
ILS Functions	WR	CSS, Panama City	0.217	0.280	11/00	0.671	10/01	1.068	10/02	0.200	2.436	
ILS Functions	RCP	CSS (Prime-Northrop Grum)	1.853	1.147	12/00	1.405	10/01	0.500	10/02		4.905	
ILS Functions	RCP	NRL Stennis	0.170	0.170	12/00						0.340	
ILS Functions	VAR	Various	0.191	0.406	12/00	0.125	10/01	0.148	10/02	0.025	0.895	
Subtotal ILS Functions			2.431	2.003		2.201		1.716		0.225	8.576	
Remarks:												
Total Cost			22.638	17.303		13.949		18.456		9.324	81.670	
Remarks:												

R-1 SHOPPING LIST - Item No. 115 - 13 of 115 - 26

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 13 of 26)

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EXHIBIT R-2a, RDT&E Project Justification							DATE:			
							February 2002			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NAME AND NUMBER				PROJECT NAME AND NUMBER					
RDT&E, N , BA-5	Airborne Mine Countermeasures/0604373N				Organic Airborne and Surface Influence Sweep/Q2427/Q2883					
COST (\$ in Millions)		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Project Cost		4.991	14.307	10.778	15.445	7.183	0.000	0.000	0.000	61.696
RDT&E Articles Qty				3						
A. Mission Description and Budget Item Justification The Organic Airborne & Surface Influence Sweep (OASIS), formerly SWIMS, will provide a self-contained, high speed, multi-influence mine sweep capability, towed by the organic MH60S helicopter and potential surface craft.										
(U) PROGRAM ACCOMPLISHMENTS AND PLANS										
1. (U) FY 2001 ACCOMPLISHMENTS										
- (U) (\$.949) Conducted evaluation of System Development & Demonstration (SD&D) contract proposals.										
- (U) (\$1.136) Completed TEMP Development and conducted technical studies i.e. MH-60S Interface, Concept of Employment, Shock Analysis, C4I Interface, and Environment Analysis.										
- (U) (\$2.906) (Cong Add) Conducted remote technical assistance to MCM ship .										
2. (U) FY 2002 PLAN										
- (U) (\$7.327) Obtain Milestone B approval. Award SD&D Contract for engineering design and Engineering Development Model (EDM) fabrication, and conduct PDR.										
- (U) (\$2.519) Continue to conduct technical studies i.e. MH-60S Interface, C4I Interface, and Shock Analysis.										
- (U) (\$1.686) Monitor Contractor performance and technical review of CDRLs.										
- (U) (\$2.775) (Cong Add) Conduct remote technical assistance to MCM ship .										

R-1 SHOPPING LIST - Item No. 115 - 14 of 115 - 26

Exhibit R-2a, RDT&E Project Justification
(Exhibit R-2a, page 14 of 26)

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002																																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N , BA-5		PROGRAM ELEMENT NAME AND NUMBER Airborne Mine Countermeasures/0604373N			PROJECT NAME AND NUMBER Organic Airborne and Surface Influence Sweep/Q2427/Q2883																																		
3. (U) FY 2003 PLAN - (U) (\$6.649) Continue SD&D contract to complete Design, Conduct CDR, Fabricate 3 EDM, and begin to integrate EDMs into platform. - (U) (\$4.129) Support platform integration.																																							
B. Other Program Funding Summary <table> <thead> <tr> <th></th> <th>FY 2001</th> <th>FY 2002</th> <th>FY 2003</th> <th>FY 2004</th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th>To Complete</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>OPN 424800</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OASIS</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>9.240</td> <td>11.603</td> <td>29.264</td> <td>CONT.</td> <td>CONT.</td> </tr> </tbody> </table>											FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost	OPN 424800										OASIS	0.000	0.000	0.000	0.000	9.240	11.603	29.264	CONT.	CONT.
	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost																														
OPN 424800																																							
OASIS	0.000	0.000	0.000	0.000	9.240	11.603	29.264	CONT.	CONT.																														
C. Acquisition Strategy: After Milestone B review in FY02, a full and open competition is planned for the OASIS MH-60S SD&D program. In FY05, following a successful DT and MS C, the SD&D program will use OPN funding to procure three (3) Limited Rate Initial Procurement (LRIP) for fleet use. Full and open competition is planned for OASIS procurement in FY06 following FRPDR.																																							
D. Schedule Profile: See attached.																																							

R-1 SHOPPING LIST - Item No. 115 - 15 of 115 - 26

Exhibit R-2a, RDT&E Project Justification
(Exhibit R-2a, page 15 of 26)

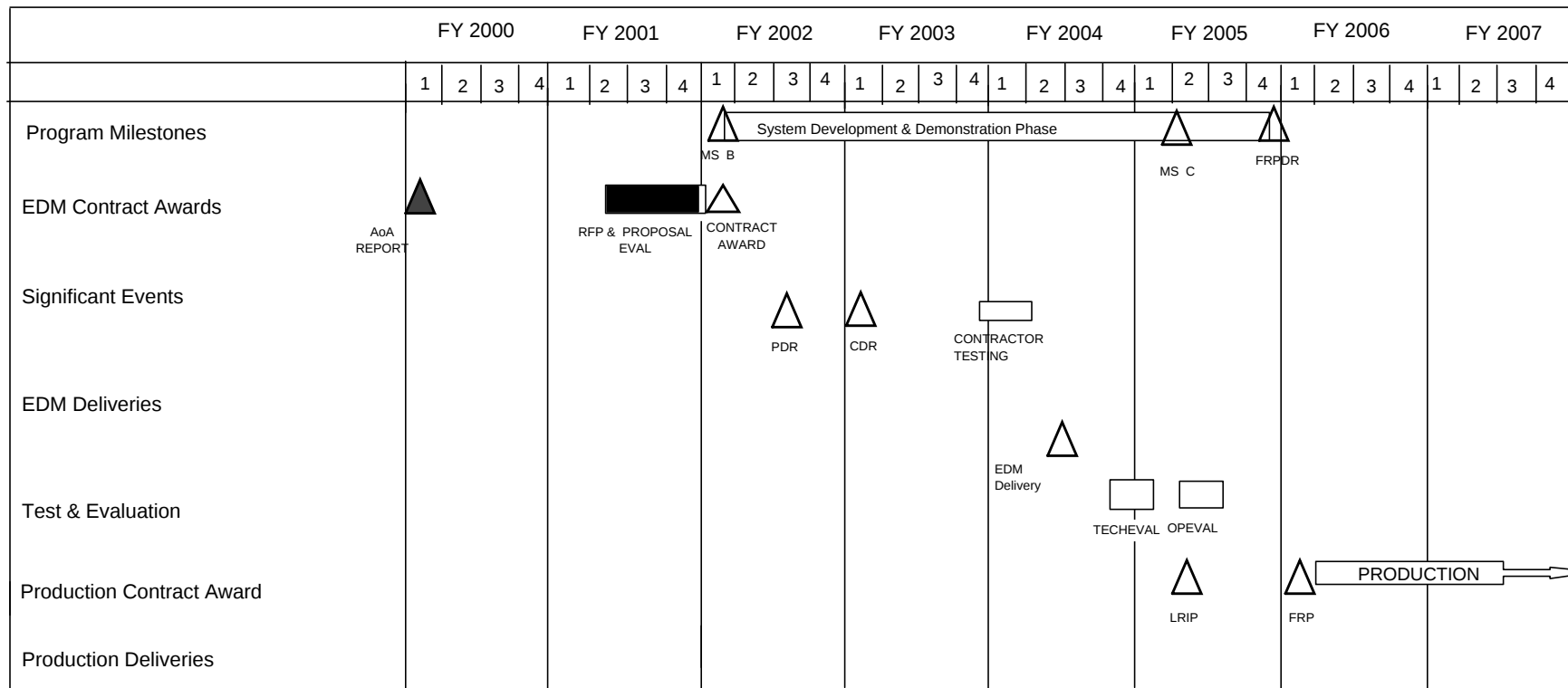
UNCLASSIFIED

CLASSIFICATION:

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N , BA-5		PROGRAM ELEMENT NAME AND NUMBER Airborne Mine Countermeasures/0604373N		PROJECT NAME AND NUMBER Organic Airborne and Surface Influence Sweep/Q2427/Q2883			

Organic Airborne and Surface Influence Sweep Schedule



R-1 SHOPPING LIST - Item No. 115 - 16 of 115 - 26

Exhibit R-2a, RDT&E Project Justification
(Exhibit R-2a, page 16 of 26)

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Organic Airborne and Surface Influence Sweep/Q2427/Q2883						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development	C/CPFF	EDO Corp	1.722							0.000	1.722	
Hardware/Software Development	C/CPIF	UNKNOWN				2.200	10/01	1.300	10/02	2.018	5.518	
Hardware/Software Development	SS/CPFF	Aeptec Microsystems Inc		2.906	07/01	2.775				0.000	5.681	
		Rockville, MD (Cong Add)										
Subtotal Hardware/Software Development			1.722	2.906		4.975		1.300		2.018	12.921	
Remarks:												
Engineering Services												
Engineering Services	C/CPIF	UNKNOWN				3.663	10/01	1.993	10/02	3.027	8.683	
Engineering Services	WR	CSS Panama City FL	4.237	1.116	10/00	1.659	10/01	2.281	10/02	1.912	11.205	
Engineering Services	WR	NSWC Carderock MD	0.300	0.120	10/00	0.305	10/01	0.000		0.000	0.725	
Engineering Services	VAR	VARIOUS	1.109	0.025	10/00	0.080	10/01			0.000	1.214	
Subtotal Engineering Services			5.646	1.261		5.707		4.274		4.939	21.827	
Remarks:												

R-1 SHOPPING LIST - Item No. 115 - 17 of 115 - 26

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 17 of 26)

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CLASSIFICATION:

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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Organic Airborne and Surface Influence Sweep/Q2427/Q2883						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Management Support												
Management Support	VAR	Various	0.082	0.093	02/01	1.642	10/01	1.446	10/02	4.762	8.025	
Management Support		Travel	0.068	0.042		0.025		0.030		0.090	0.255	
Subtotal Management Support			0.150	0.135		1.667		1.476		4.852	8.280	
Remarks:												
Test & Evaluation Functions												
T&E Functions	C/CPIF	UNKNOWN				0.732	01/02	2.659	10/02	3.988	7.379	
T&E Functions	WR	CSS Panama City, FL	0.974	0.090	12/00	0.122	10/01	0.100	10/02	4.913	6.199	
T&E Functions	VAR	Various	0.200	0.354	11/00	0.000		0.000		0.000	0.554	
Subtotal Test & Evaluation Functions			1.174	0.444		0.854		2.759		8.901	14.132	
Remarks:												
ILS Functions												
ILS Functions	C/CPIF	UNKNOWN				0.732	01/02	0.664	10/02	1.033	2.429	
ILS Functions	WR	CSS Panama City, FL	0.300	0.204	10/00	0.372	10/01	0.305	10/02	0.885	2.066	
ILS Functions	VAR	Various		0.041	11/00					0.000	0.041	
Subtotal ILS Functions			0.300	0.245		1.104		0.969		1.918	4.536	
Remarks:												
Total Cost			8.992	4.991		14.307		10.778		22.628	61.696	
Remarks:												

R-1 SHOPPING LIST - Item No. 115- 18 of 115 - 26

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 18 of 26)

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CLASSIFICATION:

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NAME AND NUMBER				PROJECT NAME AND NUMBER					
RDT&E, N , BA-5		Airborne Mine Countermeasures/0604373N				Airborne Mine Neutralization Systems/Q2473/Q9069					
COST (\$ in Millions)			FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Project Cost			9.654	21.693	21.961	36.722	17.678	10.872	0.000	0.000	133.551
RDT&E Articles Qty					2 -AMNS	2-RAMICS					
A. Mission Description and Budget Item Justification											
There is currently no rapid airborne mine neutralization capability to support minehunting. The Airborne Mine Neutralization System (AMNS) research and development effort was restarted in FY97 in Project Q0529 P.E. 0604373N. 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 will first be tested on the MH-53E to prove out the neutralization effectiveness, then it will transition to the MH-60S for organic neutralization. The Rapid Airborne Mine Clearance System (RAMICS) program began 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) Subsystem (including gun and turret); (b) Munition Subsystem - MK258 Mod 1 Armor Piercing, Fin Stabilized, Discarding Sabot-Tracer (APFSDS-T) munition subsystem; (c) Targeting Sensor Subsystem; (d) Fire Control Subsystem; and (e) Software.The system will be deployed from the MH-60S helicopter and will provide organic airborne mine defense for Carrier Battle Groups (CVBG) and Amphibious Ready Groups (ARG). This capability will be of critical importance in littoral zones, confined straits, choke points, and the Amphibious Objective Area (AOA).											
(U) PROGRAM ACCOMPLISHMENTS AND PLANS											
1. (U) FY 2001 Accomplishments											
- (U) (\$1.830) AMNS - Completed MH-53 TECHEVAL.											
- (U) (\$2.514) AMNS - Prepared documentation for EMD MH-60S contract award and research warhead issues in preparation for Weapons System Explosive Safety Review Board.											
- (U) (\$5.310) RAMICS – Continued Weapons System Definition/Selection, munitions testing.											
2. (U) FY 2002 Plan											
- (U) (\$11.047) AMNS - Award EMD contract, initiate design, develop software, and integrate aboard MH-60S for test and evaluation.											
- (U) (\$ 1.800) AMNS - Conduct MH-53 OPEVAL.											
- (U) (\$ 4.584) RAMICS – Complete ORD, complete Acquisition documentation and obtain MS B, award SD&D contract and initiate Design Phase including ILS and TDA engineering efforts. Complete 30mm Cannon risk reduction efforts including ground and flight firing mounted on the helicopter.											

R-1 SHOPPING LIST - Item No. 115- 19 of 115 - 26

Exhibit R-2a, RDT&E Project Justification
 (Exhibit R-2a, page 19 of 26)

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002																																																																																		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N , BA-5		PROGRAM ELEMENT NAME AND NUMBER Airborne Mine Countermeasures/0604373N			PROJECT NAME AND NUMBER Airborne Mine Neutralization Systems/Q2473/Q9069																																																																																				
2. (U) FY 2002 Plan (Cont'd) - (U) (\$4.262) Cong Add - Investigate untethered airborne mine neutralization systems 3. (U) FY 2003 Plan - (U) (\$11.668) AMNS - Continue design, develop software, and integrate aboard MH-60S for test and evaluation. - (U) (\$10.293) RAMICS – Continue design, development under SD&D contract. Complete PDR and CDR and initiate acquiring long-lead test articles. B. Other Program Funding Summary <table border="1"> <thead> <tr> <th></th> <th>FY 2001</th> <th>FY 2002</th> <th>FY 2003</th> <th>FY 2004</th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th>To Complete</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>OPN 424800</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>AMNS</td> <td>0.000</td> <td>11.257</td> <td>3.569</td> <td>5.270</td> <td>6.800</td> <td>8.585</td> <td>16.947</td> <td>CONT.</td> <td>CONT.</td> </tr> <tr> <td>PANMC 0019600</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RAMICS</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.227</td> <td>0.690</td> <td>CONT.</td> <td>CONT.</td> </tr> <tr> <td>WPN 422500</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>AMNS</td> <td>0.000</td> <td>0.000</td> <td>1.539</td> <td>1.567</td> <td>1.904</td> <td>1.933</td> <td>1.962</td> <td>CONT.</td> <td>CONT.</td> </tr> <tr> <td>RAMICS</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>10.762</td> <td>19.732</td> <td>CONT.</td> <td>CONT.</td> </tr> </tbody> </table> C. Acquisition Strategy: AMNS : Procurement for eight (8) MH-53E systems FY02 - FY03 will be sole source to Lockheed Martin for MH-53E capability. Full and open competition is planned for the AMNS MH-60S EMD program. In FY04, following a successful DT and MS-C, a LRIP award is planned for three (3) MH-60S systems. FRPDR is planned for FY05. RAMICS: Following a Milestone B review in FY02, a full and open competition is planned for the RAMICS MH-60S SD&D program. Following a successful DT and MS-C in FY05 , a FY06 LRIP award is planned for two (2) systems for fleet use. FRPDR is FY06 with refurbishment of EDMs and full rate production occurring in FY07. D. Schedule Profile: See attached.											FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost	OPN 424800										AMNS	0.000	11.257	3.569	5.270	6.800	8.585	16.947	CONT.	CONT.	PANMC 0019600										RAMICS	0.000	0.000	0.000	0.000	0.000	0.227	0.690	CONT.	CONT.	WPN 422500										AMNS	0.000	0.000	1.539	1.567	1.904	1.933	1.962	CONT.	CONT.	RAMICS	0.000	0.000	0.000	0.000	0.000	10.762	19.732	CONT.	CONT.
	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost																																																																																
OPN 424800																																																																																									
AMNS	0.000	11.257	3.569	5.270	6.800	8.585	16.947	CONT.	CONT.																																																																																
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RAMICS	0.000	0.000	0.000	0.000	0.000	0.227	0.690	CONT.	CONT.																																																																																
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AMNS	0.000	0.000	1.539	1.567	1.904	1.933	1.962	CONT.	CONT.																																																																																
RAMICS	0.000	0.000	0.000	0.000	0.000	10.762	19.732	CONT.	CONT.																																																																																

R-1 SHOPPING LIST - Item No. 115 - 20 of 115 - 26

Exhibit R-2a, RDT&E Project Justification
 (Exhibit R-2a, page 20 of 26)

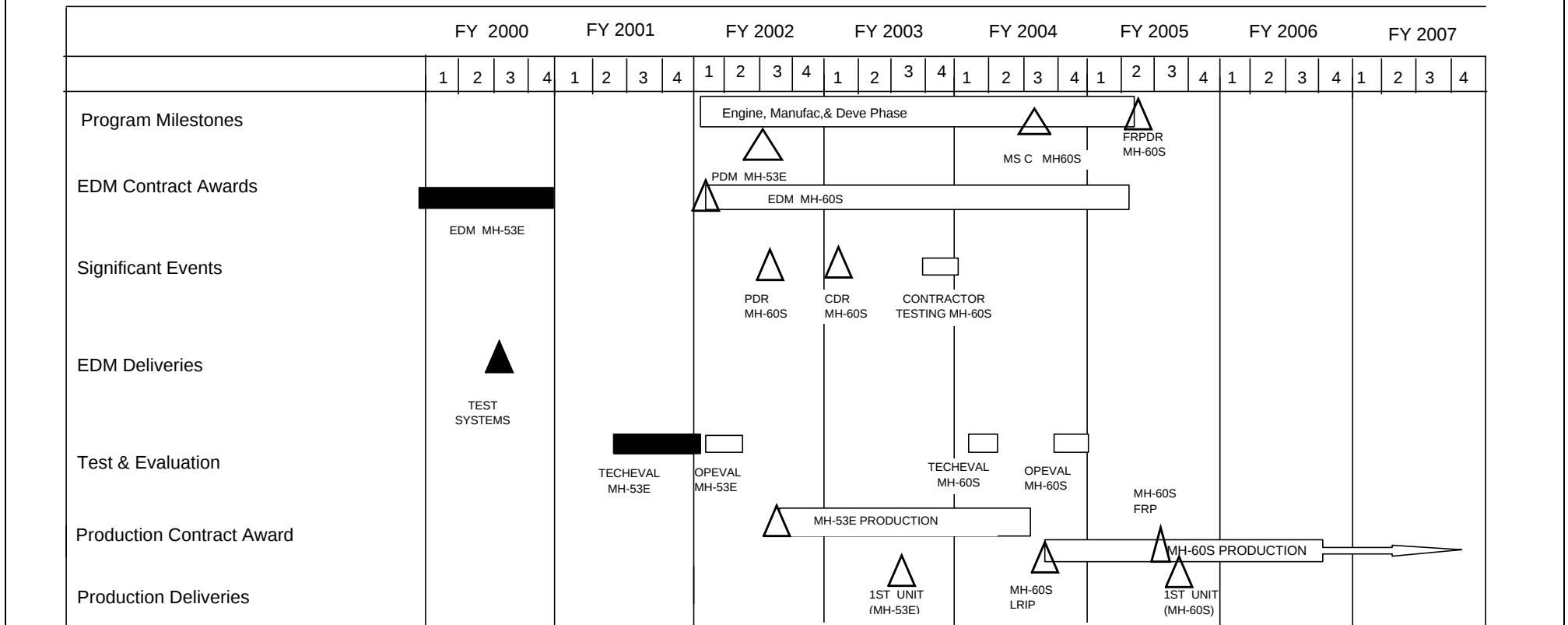
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CLASSIFICATION:

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EXHIBIT R-2a, RDT&E Project Justification			DATE:		February 2002
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NAME AND NUMBER		PROJECT NAME AND NUMBER		
RDT&E, N , BA-5	Airborne Mine Countermeasures/0604373N		Airborne Mine Neutralization Systems/Q2473/Q9069		

Airborne Mine Neutralization System Schedule



R-1 SHOPPING LIST - Item No. 115 - 21 of 115 - 26

Exhibit R-2a, RDT&E Project Justification
(Exhibit R-2a, page 21 of 26)

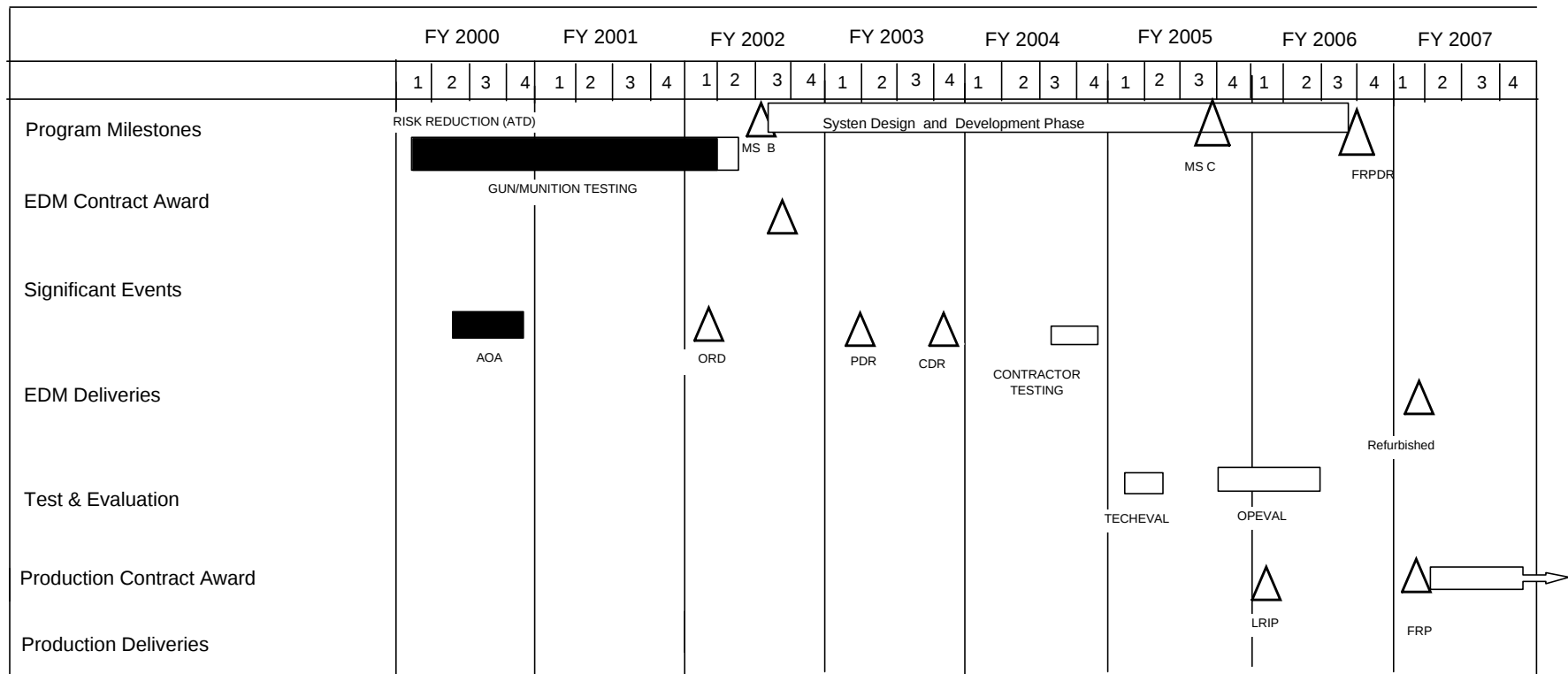
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CLASSIFICATION:

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NAME AND NUMBER		PROJECT NAME AND NUMBER			
RDT&E, N , BA-5		Airborne Mine Countermeasures/0604373N		Airborne Mine Neutralization Systems/Q2473/Q9069			

Rapid Airborne Mine Clearance System Schedule



R-1 SHOPPING LIST - Item No. 115 - 22 of 115 - 26

Exhibit R-2a, RDT&E Project Justification
(Exhibit R-2a, page 22 of 26)

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Exhibit R-3 Cost Analysis (page 1)							DATE: February 2002					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Airborne Mine Neutralization Systems/Q2473						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development												
Hardware/Software Development	C/FP	LOCKHEED , Syracuse, NY	3.200	0.131	05/01					0.000	3.331	
Hardware/Software Development	VAR	VARIOUS	0.338							0.000	0.338	
Hardware/Software Development	C/CPIF	UNKNOWN				9.095	11/01	5.531	10/02	0.000	14.626	
Hardware/Software Development	WR	CSS Panama City, FL		0.290	06/01					0.000	0.290	
Subtotal Hardware/Software Development			3.538	0.421		9.095		5.531		0.000	18.585	
Remarks: This is for AMNS only												
Engineering Services												
Engineering Services	WR	CSS Panama City, FL	2.418	1.473	10/00	2.922	10/01	1.323	10/02	0.895	9.031	
Engineering Services	WR	VARIOUS	0.335	0.452	11/00	0.000		0.000		0.000	0.787	
Engineering Services	C/CPIF	UNKNOWN	0.000			1.434	11/01	0.549	10/02	0.456	2.439	
Subtotal Engineering Services			2.753	1.925		4.356		1.872		1.351	12.257	
Remarks: This is for AMNS only												

R-1 SHOPPING LIST - Item No. 115 - 23 of 115 - 26

Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 23 of 26)

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CLASSIFICATION:

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Exhibit R-3 Cost Analysis (page 2)							DATE: February 2002					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Airborne Mine Neutralization Systems/Q2473Q9069						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Management Support												
Management Support	VAR	Various	0.016	0.128	11/00	0.548	10/01	0.504	10/02	0.243	1.439	
Management Support		Travel	0.024	0.040		0.040		0.040		0.080	0.224	
Subtotal Management Functions			0.040	0.168		0.588		0.544		0.323	1.663	
Remarks: This is for AMNS only												
Test & Evaluation Functions												
Test & Evaluation Functions	WR	CSS Panama City, FL	3.418	1.390	11/00	1.650	10/01	1.139	10/02	3.000	10.597	
Test & Evaluation Functions	C/FP	Lockheed , Syracuse, NY	0.000	0.157	01/01					0.000	0.157	
Test & Evaluation Functions	VAR	Various	0.300	0.283	11/00	0.150	10/01	0.275	10/02	0.254	1.262	
Test & Evaluation Functions	C/CPIF	UNKNOWN	0.000					1.139	10/02	2.250	3.389	
Subtotal Test & Evaluation Functions			3.718	1.830		1.800		2.553	10/02	5.504	15.405	
Remarks: This is for AMNS only												
ILS Functions		CSS Panama City, FL										
ILS Functions	WR	CSS Panama City, FL	0.312	0.000		0.635	10/01	0.584	10/02	0.243	1.774	
ILS Functions	C/CPIF	UNKNOWN	0.000			0.635	11/01	0.584	10/02	0.000	1.219	
Subtotal ILS Functions			0.312	0.000		1.270		1.168		0.243	2.993	
Remarks: This is for AMNS only												
Total Cost			10.361	4.344		17.109		11.668		7.421	50.903	
Remarks: This is for AMNS only												

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CLASSIFICATION:

UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 1)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Airborne Mine Neutralization Systems/Q2473/Q2473						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Development												
Hardware/Software Development	C/CPIF	TBD				0.632	05/02	4.207	10/02	30.297	35.136	
Hardware/Software Development	Various	CSS Panama City, FL	0.725	0.307	11/00	0.202	10/01			0.000	1.234	
Subtotal Hardware/Software Development			0.725	0.307		0.834		4.207		30.297	36.370	
Remarks: This is for RAMICS only												
Engineering Services												
Engineering Services	Various	CSS Panama City, FL	2.644	1.452	10/00	0.578	10/01	1.066	10/02	0.000	5.740	
Engineering Services	Various	NSWC Crane	0.000	2.200	07/01					0.000	2.200	
Engineering Services	WR	VARIOUS	0.000	0.303	11/00	0.379	10/01	0.100	10/02	0.000	0.782	
Engineering Services	C/CPIF	TBD				0.553	05/02	1.224	10/02	8.127	9.904	
Subtotal Engineering Services			2.644	3.955		1.510		2.390		8.127	18.626	
Remarks: This is for RAMICS only												

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CLASSIFICATION:

UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 2)								DATE:				
February 2002												
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, N , BA-5			Airborne Mine Countermeasures/0604373N			Airborne Mine Neutralization Systems/Q2473/Q9069						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Management Support												
Management Support	VAR	Various	0.357	0.305	10/00	0.570	10/01	0.913	10/02	8.641	10.786	
Management Support		Travel	0.024	0.030		0.034		0.021		0.231	0.340	
Subtotal Management Functions			0.381	0.335		0.604		0.934		8.872	11.126	
Remarks: This is for RAMICS only												
Test & Evaluation Functions												
Test & Evaluation Functions	WR	CSS Panama City, FL	0.610	0.000		0.320	10/01	0.000		1.177	2.107	
Test & Evaluation Functions	C/CPIF	TBD				0.052	05/02	0.082	10/02	0.391	0.525	
Test & Evaluation Functions	VAR	Various		0.643	12/00	1.234	10/01	1.232	10/02	2.316	5.425	
Subtotal Test & Evaluation Functions			0.610	0.643		1.606	10/01	1.314	10/02	3.884	8.057	
Remarks: This is for RAMICS only												
ILS Functions												
ILS Functions	WR	CSS Panama City, FL	0.250	0.070	11/00	0.030	10/01	0.139	10/02	0.049	0.538	
ILS Functions	C/CPIF	TBD	0.000			0.000		1.309	10/02	6.622	7.931	
Subtotal ILS Functions			0.250	0.070		0.030		1.448		6.671	8.469	
Remarks: This is for RAMICS only												
Total Cost			4.610	5.310		4.584		10.293		57.851	82.648	
Remarks: This is for RAMICS only												

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