## **UNCLASSIFIED**

EXHIBIT R-2a, RDT&E Project J		DATE:							
					February 2006				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT N	UMBER AND	NAME	PROJECT NUMBER AND NAME				
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)	0603612M Mar	Mine/Coun	termeasure	s Systems	C2106 Advance Mine Detector				
COST (\$ in Millions)	F	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost		5.827	3.216	3.777	0.653	0.000	0.000	0.00	
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:	•				•	•			
The Advance Mine Detector (AMD) will be a man-portable system capable of dete	ecting both metallic	c and nonme	etallic buried r	nines regardle	ss of fuse type	. The AMD w	vill alleviate a cri	itical deficiency for	
detection of buried metallic and semi-metallic mines. Current mine detection technical									
capability to neutralize the hazards associated with explosive ordnance that are bey									
FEOD Equipment accomplishes this mission by detecting, identifying, rendering s									
1 200 Equipment accompnishes and mission by according, lacinarying, remaching a	are, recovering, eve	acading and	a disassemonn	ig, und/or disp	osing of unexp	orouca oranan	ice with a variety	y 01 t0013.	
(U) ACCOMPLISHMENTS/PLANNED PROGRAM:									
COST (\$ in Millions)			FY 2	2005	FY 2	2006	F	Y 2007	
Accomplishment/Effort Subtotal Cost			1.1	36	0.5	00		0.500	
RDT&E Articles Qty									
AMD: Facilitate program transition to Marine Corps Systems Command (M	IARCORSYSCOM	1) from Offi	ce of Naval R	esearch (ONR	) Provide pro	oram manage	ement technical	support and travel	
Times Tuesticate program transition to Marine Corps by stems Command (1)	inteons i seem	1) 110111 0111	cc of fraval fo	escuren (or tr	). Trovide pro	gram manage	ment, teenmeur	support, and naver.	
COST (\$ in Millions)			FY 2	2005	FY 2	2006	F	Y 2007	
Accomplishment/Effort Subtotal Cost			1.0		1.700		2.716		
RDT&E Articles Qtv									
AMD: Conduct initial developmental testing and follow-up developmental to	esting and operation	nal testing i	n various soil	types and envi	ronmental con	ditions of the	AMD prototype	to determine system	
capabilities.	coming and operation	nui testing i	. various soil	y pes una envi		ditions of the	Time prototype	to determine system	
COST (\$ in Millions)		1	FY 2	2005	FV 2	2006		Y 2007	
Accomplishment/Effort Subtotal Cost			0.7		0.5			0.561	
RDT&E Articles Qty			<u> </u>		0.0			0.001	
AMD: Update programmatic documentation and technical drawings. Development	onment of technica	al manuale a	nd training pa	ckages					
	opinent of teeninea	ai illalluais a		-	E)//	2000		7/ 0007	
COST (\$ in Millions)			FY 2		FY 2			Y 2007	
Accomplishment/Effort Subtotal Cost			0.5	20	0.4	0.431 0.000			
RDT&E Articles Qty							L		
AMD: Conduct Trade Studies to reduce power consumption/weight, improv	e detection depths,	, and sweep	rate. Enginee	ring and desig	n studies to in	nprove ergono	mic characterist	ics, integrate human	
factors and finalize overall system design.					ı		Ţ		
COST (\$ in Millions)		FY 2		FY 2006		FY 2007			
Accomplishment/Effort Subtotal Cost			0.4	10	0.0	000	0.000		
RDT&E Articles Qty									
ICE: Conduct testing of Hard to Kill Cards (H2K) for the IED Countermeas	sures Equipment (IC	CE) system.							
COST (\$ in Millions)		FY 2005 FY 2006			F	FY 2007			
Accomplishment/Effort Subtotal Cost		2.055 0.000			0.000				
RDT&E Articles Qty									
OPAL (TSWG): Reimburse the Joint Command Technical Support Workin	Group (TSWG) fo	or the purch	ase of OPAL	Thermal Image	ers.		•		
(U)Total \$	1 ( -)	1	5.8	_	3.2	16		3.777	
(O)TOTAL &			5.0	<b>~</b> 1	3.2	. 10		3.111	

R-1 SHOPPING LIST - Item No. 57

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 1 of 3)

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EXHIBIT R-2a, RDT&E Project J	]	DATE:						
						Feb	ruary 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	IMBER AND	NAME		PROJECT N	UMBER AND N	NAME	
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)	0603612M Ma	arine Corps	Mine/Counte	ermeasures	Systems	ector		
PROJECT CHANGE SUMMARY:	FY2005	FY2006	FY2007					
(U) FY 2006 President's Budget:	4.478	3.265	3.760					
(U) Adjustments from the President's Budget:								
(U) Congressional/OSD Program Reductions								
(U) Congressional Rescissions								
(U) Congressional Increases								
(U) Reprogrammings	1.055							
(U) SBIR/STTR Transfer	-0.114							
(U) Minor Affordability Adjustment	0.408	-0.049	0.017					
(U) FY 2007 President's Budget:	5.827	3.216	3.777					
CHANGE SUMMARY EXPLANATION: (U) Funding: See above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.								
(U) C. OTHER PROGRAM FUNDING SUMMARY:								
Line Item No. & Name FY 200	<u>FY 2006</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
PMC BLI 632500 Demo Support Sys Advanced Mine Detector	2 0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.302
PMC BLI 652000 EOD Sys Advanced Mine Detector 0.000	0 1.039	2.449	2.609	1.068	0.000	0.000	0.000	7.165

- (U) Related RDT&E: Not Applicable.
- (U) D. ACQUISITION STRATEGY: By leveraging an exploratory technology program for mine detection, the Marine Corps will maintain active involvement in the Advanced Mine Detector (AMD) development during concept and technology development. A backpack prototype, configured to detect Trinitrotoluene (TNT), Hexahydro-Trinitro-Triazine (RDX), tetryl and metallic and semi-metallic mines, will be delivered 2nd quarter FY 05 for test and evaluation. The demonstrated technology will then transition into system development and demonstration phase for further development. A cost plus contract with negotiated contractor incentives in the areas of weight, sweep rate, and power consumption will be awarded. After completion of Milestone B, the program enters Low Rate Initial Production (LRIP). LRIP items will undergo Intial Operational Test and Evaluation in preparation for full rate production. The production phase will employ a fixed price production contract.
- (U) SCHEDULE PROFILE: Not Applicable.
- (U) E. MAJOR PERFORMERS:
- FY04 Aberdeen Test Center, Aberdeen, MD, Test Activity
- FY05 Aberdeen Test Center, Aberdeen, MD, Test Activity
- FY06 Anniston Army Depot, Anniston Alabama/ Aberdeen Test Center, Aberdeen, MD, Test Activity/MCAS, Yuma Arizona
- FY07 Aberdeen Test Center, Aberdeen, MD, Test Actvity

## **UNCLASSIFIED**

				DATE:										
Exhibit R-3 Cost Analysis				February 2006										
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT PROJECT NUMBER AND NAME											
RDT&E, N /BA-4 Advanced C	omponent De	v & Prototypes (ADCP&P)	0603612N	Marine C	orps Mine	/Counterm	C2106 Ac	dvance Mir	ne Detecto	r				
Cost Categories	Contract	Performing	Total		FY 05		FY 06		FY 07			Target		
_	Method	Activity &	PY s	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total			
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract		
Engineering & Design	MIPR	CECOM Alexandria, VA	0.000	1.132	2Q/05	0.434	1Q/06			Cont				
Systems Engineering	MIPR	CECOM Alexandria, VA	0.000		3Q/05	0.231	3Q/06	0.194	2Q/06	Cont	Cont			
Subtotal Product Dev			0.000	1.637		0.665		0.194		Cont	Cont			
Remarks:	!	-		!		<u> </u>				1		ļ.		
Cost Categories	Contract	Performing	Total		FY 05		FY 06		FY 07			Target		
	Method	Activity &	PY s	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of		
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract		
Engineering Spt	RCP	MCSC Quantico, VA	0.403	0.518	1Q/05	0.351	1Q/06	0.367	1Q/06	Cont	Cont			
Engineering Spt	MIPR	CECOM Alexandria, VA	0.283								0.283	0.283		
Engineering Spt	MIPR	CECOM Alexandria, VA	0.042								0.042	0.042		
Engineering Spt	RCP	MCSC Quantico, VA	0.036								0.036	0.036		
Engineering Spt (FEOD)	RCP	MCSC Quantico, VA	0.025								0.025	0.025		
Engineering Spt	RCP	MCSC Quantico, VA	0.000	2.056	2Q/05									
Subtotal Support			0.789	2.574		0.351		0.367		Cont	Cont			
Remarks:														
Cost Categories	Contract	Performing	Total		FY 05		FY 06		FY 07			Target		
	Method	Activity &		FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of		
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract		
Testing	MIPR	Aberdeen Prvg Grnd, MD	0.446	0.800	1Q/05	0.700	1Q/06	1.600	1Q/07	Cont	Cont			
Testing	MIPR	MCAS Yuma, AZ	0.000			1.000	2Q/06	1.116	2Q/07	Cont	Cont			
Testing	MIPR	Army Research Lab	0.000		2Q/05									
Subtotal T&E			0.446	1.210		1.700		2.716		Cont	Cont			
Remarks:	In	In	I=			1	I=1/ 00	1	I=\( 0=	1	1	I <del></del>		
Cost Categories	Contract	Performing	Total	=>< 0=	FY 05	=>/ 00	FY 06		FY 07			Target		
	Method	Activity &	PY s	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of		
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete		Contract		
Management Spt	RCP	BAE, Stafford, VA	0.000	0.406	1Q/05	0.500	1Q/06	0.500	2Q/06	Cont	Cont			
Subtotal Management			0.000	0.406		0.500		0.500		Cont	Cont			
Remarks:					T	•	•		1	_		T		
Total Cost	1	1	1.235	5.827	1	3.216	1	3.777	1	Cont	Cont			