UNCLASSIFIED

EXHIBIT R-2a, RDT&E Project J	ustification				DATE:				
							ary 2005		
APPROPRIATION/BUDGET ACTIVITY			UMBER AND		PROJECT NUMBER AND NAME				
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)	0603612M N	Marine Corps	Mine/Count	ermeasures	Systems	C2106 Advance Mine Detector			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost	0.925	4.478	3.265	3.760	0.649	0.000	0.000	0.000	
RDT&E Articles Qty	12								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
The Advance Mine Detector (AMD) will be a man-portable system capable of dete	cting both metal	llic and nonme	tallic buried mi	ines regardless	s of fuse type.	The AMD will	l alleviate a critic	cal deficiency	
for detection of buried metallic and semi-metallic mines. Current mine detection to									
provide a capability to neutralize the hazards associated with explosive ordnance the									
and material. The FEOD Equipment accomplishes this mission by detecting, ident	ifying, rendering	g safe, recoveri	ing, evacuating	and disassem	bling, and/or d	lisposing of un	nexploded ordna	nce with a	
variety of tools.									
(II) A COCARDI ICUINATAITO/DI ANINED DE CODANA									
(U) ACCOMPLISHMENTS/PLANNED PROGRAM: COST (\$ in Millions)	T EV	2004	EV 2	2005	EV 1	2006	FY 2	2007	
Accomplishment/Effort Subtotal Cost			FY 2005 1.135		0.5				
RDT&E Articles Qty	0.036		1.100		0.5	500	0.500		
AMD: Facilitate program transition to Marine Corps Systems Command (M.			o of Novel Dec	parah (OND)	Drovido progr	rom monogom	nt tachnical au	nnort and	
travel.	AKCOKSTSCO	M) Holli Offic	e of Navai Kes	search (ONK).	Flovide progr	iam managem	ent, technical su	pport, and	
COST (\$ in Millions)	T EV	2004	FY 2	2005	FY 2	2006	FY 2	2007	
Accomplishment/Effort Subtotal Cost		146	1.000					2.716	
RDT&E Articles Qty	0	140	1.0		1.7	00	2.1	10	
AMD: Conduct initial developmental testing and follow-up developmental to	esting and opera	tional testing i	n various soil t	vnes and envir	ronmental con	ditions of the	AMD prototype	to determine	
system capabilities.	esting and opera	itional testing i	ii various soii t	ypes and envi	ionnientai com	unions of the A	AND prototype	to determine	
COST (\$ in Millions)	FV '	2004	FY 2	2005	EV 1	2006	FY 2	2007	
Accomplishment/Effort Subtotal Cost		0004	0.706					44	
RDT&E Articles Qty	0.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.7	00	0.0	704	0.0		
AMD: Update programmatic documentation and technical drawings. Develo	nment of techni	ical manuals at	nd training nacl	kages	1				
	•		0 1		EV.	2000	EV.	2007	
COST (\$ in Millions)		2004	FY 2005 1.637		FY 2006 0.431		FY 2		
Accomplishment/Effort Subtotal Cost	0.4	118	1.6	31	0.4	131	0.0	100	
RDT&E Articles Qty	1 4 4 1 1	1		111	1 1 1			• ,	
AMD: Conduct Trade Studies to reduce power consumption/weight, improve	e detection depti	ns, and sweep	rate. Engineeri	ing and design	studies to imp	prove ergonom	nc characteristic	s, integrate	
human factors and finalize overall system design.		2004	EV. 0	2005		2000	F)/ 6	2007	
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost		2004)25	FY 2005		FY 2006 0.000		FY 2		
·	0.0	J23	0.000		0.0	<i>,</i>	0.000		
RDT&E Articles Qty FEOD: Conduct re-configuration studies on the EOD tool sets.									
		NO.F		70		NO.F		100	
(U)Total \$	0.9	925	4.4	·/8	3.2	265	3.7	60	

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

UNCLASSIFIED

EXHIBIT R-2a, RI	DATE:	ATE:					
		February 2005					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUI	MBER AND NAME	•	PROJECT NUMBER AND NAME		
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)			rine Corps I	Mine/Countermeas	ures Systems	C2106 Advance Mine Detector	
PROJECT CHANGE SUMMARY:	FY2004	FY2005	FY2006	FY2007			
(U) FY 2005 President's Budget:	1.177	4.522	6.234	3.716			
(U) Adjustments from the President's Budget:	0.025						
(U) Congressional/OSD Program Reductions							
(U) Congressional Rescissions							
(U) Congressional							
(U) Reprogrammings			-3.000				
(U) SBIR/STTR Transfer	-0.033						
(U) Minor Affordability Adjustment	-0.244	-0.044	0.031	0.044			
(U) FY 2006 OSD Budget:	0.925	4.478	3.265	3.760			
OLIANIOE OLIMANA DV EVDLANIATIONI							

CHANGE SUMMARY EXPLANATION:

- (U) Funding: Change in FY06 funding is due to realignment of funding to higher priority programs within the Marine Corps.
- (U) Schedule: Not Applicable.(U) Technical: Not Applicable.

(U) C. OTHER PROGRAM FUNDING SUMMARY:

(6) 6. GITIER I ROCKAM I GITDING GOMMAKT.										
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
PMC BLI 632500 Demo Support Sys	2.089	3.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.498
Advanced Mine Detector PMC BLI 652000 EOD Sys Advanced Mine Detector	0.000	0.000	1.097	4.639	3.814	1.065	0.000	0.000	0.000	10.615

- (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 Actvity for the AMD Prototypes
- FY05 TBD Competetive Contract for the Engineering and design support to improve ergonomic characteristics, integrate human factors and finalize overall system design.

Exhibit R-2a, RDTE,N Project Justification

UNCLASSIFIED

						DATE:								
	Exhi	bit R-3 Cost Analysis								Februar	y 2005			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT					PROJECT NUMBER AND NAME					
RDT&E. N /BA-4 Advance	d Component	Dev & Prototypes (ADCP&P)	0603612	2M Marin	e Corps	Mine/Co	unterm	easures	C2106 A	Advance	Mine De	etector		
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	_
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete		
Engineering & Design	TBD	TBD	0.000			1.132	2Q/05	0.434	1Q/06			Cont		
Systems Engineering	TBD	TBD	0.000			0.505	3Q/05	0.231	3Q/06	0.194	2Q/06	Cont		
Subtotal Product Dev	1.00		0.000			1.637	00,00	0.665	00,00	0.194	20,00	Cont		
Remarks:			0.000	0.000		11001		0.000		01.01				
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value o
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Engineering Spt	RCP	MCSC Quantico, VA	0.128	0.275	3Q/04	1.135	1Q/05	0.400	1Q/06	0.350	1Q/06	Cont	Cont	
Engineering Spt	MIPR	CECOM Alexandria, VA	0.140	0.143	1Q/04								0.283	0.283
Engineering Spt	RCP	CECOM Alexandria, VA	0.042										0.042	0.042
Engineering Spt	RCP	MCSC Quantico, VA		0.036	3Q/04								0.036	0.036
Engineering Spt (FEOD)	RCP	MCSC Quantico, VA		0.025	2Q/04								0.025	0.025
Subtotal Support			0.310	0.479		1.135		0.400		0.350		Cont	Cont	
Remarks:			•											
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
3	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete		Contract
Testing	MIPR	Aberdeen Prvg Grnd, MD	0001	0.446	3Q/04	1.000	1Q/05	0.700	1Q/06	1.600	1Q/07	Cont		
Testing	MIPR	MCAS Yuma, AZ		0.000	0Q/0 1	0.000	10/00	1.000	2Q/06	1.116	2Q/07	Cont		
Subtotal T&E	IVIII IX	WONG Fama, 712	0.000			1.000		1.700	ZQ/00	2.716	20/01	Cont		
Remarks:			1 0.000	01110		11000		11100			ļ		, John	ļ
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
Cost Gategories	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete		Contract
Management Spt	RCP	BAE, Stafford, VA	0.000		Date	0.706	1Q/05	0.500	1Q/06	0.500	2Q/06	Complete		
Management Spt	RCF	BAE, Stallold, VA	0.000			0.706	10/03	0.500	10/00	0.500	2Q/00	Cont	0.000	
Subtotal Management			0.000	0.000		0.706		0.500		0.500		Cont		
Remarks:			0.000	0.000		0.700		0.300		0.300		Cont	Cont	
indinaina.														
Total Cost			0.310	0.925		4.478		3.265		3.760		Cont	Cont	
	•													