## **UNCLASSIFIED**

EX	DATE:										
		-						Februra	ry 2003		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM E	LEMENT NUM	IBER AND NA	ME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-4 Advanced Component Dev &	0603612M Ma	arine Corps M	ine/Counterm	easures Syste							
, , , , , , , , , , , , , , , , , , ,		,							Cost to	Total	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY2009	Complete	Program	
Project Cost	0.000	0.486	1.215	6.032	6.251	3.724	0.641	0.000	0.000	18.34	
RDT&E Articles Qty			12								
U) A. MISSION DESCRIPTION AND BUDGET	TITEM JUSTIFICA	ATION:									
The Advance Mine Detector (AMD) will be a man-p	ortable system cap	able of detecting	ng both metallic	and nonmetallic	buried mines re	egardless of fuse	type. The AM	D will alleviate a	critical deficier	icy for	
letection of buried metallic and semi-metallic mines.											
capability to neutralize the hazards associated with e											
FEOD Equipment accomplishes this mission by deter										nai. The	
LOD Equipment accompnishes this mission by deter	cuing, identifying, i	chacing saic,	recovering, evac	dating and disa	sscinding, and/	or disposing or t	inexploded ordi	iance with a vari	cty of tools.		
III) ACCOMDI ISHMENTS/DI ANNED DDOCD/	A N.A.										
,		2002	FV 2	2003	FV 2	2004	EV '	2005			
COST (\$ in Millions)	FY 2		FY 2		FY 2			2005			
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost			FY 2 <b>0.2</b>		FY 2 <b>0.4</b>			2005			
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	FY 2 0.0	00	0.2	50	0.4	73	1.1	150	al support and to	ravel	
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty AMD: Facilitate program transition to Marine	FY 2 0.0 Corps Systems Cor	00 nmand (MARC	0.2 CORSYSCOM)	from Office of I	0.4 Naval Research	(ONR). Provide	1.1 e program mana	gement, technica	al support, and t	ravel.	
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  AMD: Facilitate program transition to Marine ( COST (\$ in Millions)	FY 2 0.0	mmand (MARC	0.2	from Office of 1	0.4	73 (ONR). Provide 2004	1.1 e program mana FY 2	150	al support, and t	ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine (  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost	Corps Systems Corps FY 2	mmand (MARC	O.2 CORSYSCOM) FY 2	from Office of 1	0.4  Naval Research  FY 2	73 (ONR). Provide 2004	1.1 e program mana FY 2	gement, technica 2005	al support, and t	ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine ( COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty	Corps Systems Cor FY 2	00 mmand (MARC 0002 00	0.2 CORSYSCOM) FY 2 0.0	from Office of 2003	0.4 Naval Research FY 2 0.5	73 (ONR). Provide 2004 00	1.1 e program mana FY 2 1.0	igement, technica 2005		ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine ( COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Conduct initial developmental testing ar	Corps Systems Cor FY 2	mmand (MARC) 2002 00	0.2 CORSYSCOM) FY 2 0.0	from Office of 2003 000 types and envir	0.4 Naval Research FY 2 0.5	(ONR). Provide 2004 00 tions of the AM	1.1 e program mana FY 2 1.0 D prototype to o	igement, technica 2005		ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine ( COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Conduct initial developmental testing ar  COST (\$ in Millions)	Corps Systems Corps Systems Corps O.0	mmand (MARC 2002 00 ppmental testin 2002	O.2  CORSYSCOM)  FY 2  0.0  g in various soil	from Office of 2003 000 types and envir	0.4  Naval Research FY 2 0.5  conmental condi	(ONR). Provide 2004 00 tions of the AM	e program mana FY 2 1.0 D prototype to 6 FY 2	igement, technica 2005 1000		ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine ( COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Conduct initial developmental testing ar	Corps Systems Corps Systems Corps O.00  Corps Systems Corps Corps Systems Corps FY 2  0.00  nd follow-up develor FY 2	mmand (MARC 2002 00 ppmental testin 2002	O.2  CORSYSCOM)  FY 2  O.0  g in various soil  FY 2	from Office of 2003 000 types and envir	Naval Research FY 2 0.5 conmental condi	(ONR). Provide 2004 00 tions of the AM	e program mana FY 2 1.0 D prototype to 6 FY 2	igement, technica 2005 000 determine system 2005		ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine of COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Conduct initial developmental testing ar COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost	Corps Systems Corps Systems Corps O.00  Corps Systems Corps O.00  Ind follow-up develor FY 2  O.00	mmand (MARC 2002 00 ppmental testin 2002 00	O.2  CORSYSCOM)  FY 2  O.0  g in various soil  FY 2  O.0	from Office of 12003 000 types and envir	Naval Research FY 2 0.5 commental condi FY 2 0.0	(ONR). Provide 2004 00 tions of the AM 2004	e program mana FY 2 1.0 D prototype to 6 FY 2	igement, technica 2005 000 determine system 2005		ravel.	
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  AMD: Facilitate program transition to Marine of COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  AMD: Conduct initial developmental testing an COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  AMD: Update programmatic documentation an COST (\$ in Millions)	Corps Systems Corps Systems Corps O.00  Corps Systems Corps O.00  Ind follow-up develor FY 2  O.00	mmand (MARC) 002 00  popmental testin 002 00  ggs. Developm	O.2  CORSYSCOM)  FY 2  O.0  g in various soil  FY 2  O.0	from Office of 12003 1000 types and envir 2003 1000 manuals and tra	Naval Research FY 2 0.5 commental condi FY 2 0.0	(ONR). Provide 2004 00 tions of the AM 2004 00	e program mana FY 2 1.0 D prototype to 0 FY 2 0.7	igement, technica 2005 000 determine system 2005		ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine (	Corps Systems Corps Systems Corps Systems Corps Grand FY 2  0.0  nd follow-up developer FY 2  0.0  nd technical drawin	mmand (MARC) 002 00  popmental testin 002 00  ggs. Developm	O.2  CORSYSCOM)  FY 2  O.0  g in various soil  FY 2  O.0  ent of technical	from Office of 12003 100 12003	Naval Research FY 2 0.5 conmental condi FY 2 0.0	(ONR). Provide 2004 00 tions of the AM 2004 00	e program mana FY 2 1.0 D prototype to 0 FY 2 0.7	gement, technica 2005 000 determine system 2005 750		ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine (	Corps Systems Corps Systems Corps Systems Corps Grand FY 2  0.0  and follow-up develor FY 2  0.0  and technical drawin	mmand (MARC) 002 00  popmental testin 002 00  ggs. Developm	O.2  CORSYSCOM)  FY 2  O.0  g in various soil  FY 2  O.0  ent of technical	from Office of 12003 100 12003	Naval Research FY 2 0.5 conmental condi FY 2 0.0 ining packages.	(ONR). Provide 2004 00 tions of the AM 2004 00	e program mana FY 2 1.0 D prototype to 0 FY 2 0.7	gement, technica 2005 000 determine system 2005 750		ravel.	
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine (	Corps Systems Corps Systems Corps Systems Corps Grand FY 2  0.0  nd follow-up develor  FY 2  0.0  nd technical drawin  FY 2  0.0	mmand (MARC) 002 00  popmental testin 002 00  gs. Developm 002 00	O.2  CORSYSCOM)  FY 2  O.0  g in various soil  FY 2  O.0  ent of technical  FY 2  O.2	from Office of 12003 1000 types and envir 12003 1000 manuals and tra 12003 136	Naval Research FY 2 0.5 conmental condition FY 2 0.0 ining packages. FY 2 0.2	(ONR). Provide 2004 00 tions of the AM 2004 00	e program mana FY 2 1.0 D prototype to 0 FY 2 0.7	gement, technica 2005 000 determine system 2005 750	a capabilities.		
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine (	Corps Systems Corps Systems Corps Systems Corps Grand FY 2  0.0  nd follow-up develor  FY 2  0.0  nd technical drawin  FY 2  0.0	mmand (MARC) 0002 000  popmental testin 0002 000  ggs. Developm 0002 000  ht, improve det	O.2  CORSYSCOM)  FY 2  O.0  g in various soil  FY 2  O.0  ent of technical  FY 2  O.2	from Office of 1 2003 00 types and envir 2003 00 manuals and tra 2003 336	Naval Research FY 2 0.5 conmental condition FY 2 0.0 ining packages. FY 2 0.2	(ONR). Provide 2004 00 tions of the AM 2004 00	e program mana FY: 1.0 D prototype to of FY: 0.7  FY: 3.1	gement, technica 2005 000 determine system 2005 750	a capabilities.		
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Facilitate program transition to Marine ( COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Conduct initial developmental testing ar COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Update programmatic documentation ar COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  AMD: Conduct Trade Studies to reduce power	Corps Systems Corps Systems Corps Systems Corps Grand FY 2 0.0 and follow-up develor FY 2 0.0 and technical drawin FY 2 0.0 cronsumption/weig	mmand (MARC) 1002 00  popmental testin 1002 00  gs. Developm 1002 00  ht, improve decents	g in various soil FY 2 0.0 g in various soil FY 2 0.0 ent of technical FY 2 0.2 tection depths, a	from Office of 12003 00 types and envirence of 12003 00 manuals and trae 2003 136 and sweep rate.	Naval Research FY 2 0.5 conmental condi FY 2 0.0 ining packages. FY 2 0.2 Engineering and	(ONR). Provide 2004 00 tions of the AM 2004 00 2004 17 d design studies 2004	1.1 e program mana FY 2 1.0 D prototype to 0 FY 2 0.7  FY 2 3.1 to improve ergo	gement, technica 2005 1000 letermine system 2005 750	a capabilities.		

6.032

1.215

0.486

0.000

(U)Total \$

## **UNCLASSIFIED**

APPROPRIATION/BUDGET ACTIVITY  RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCF		PROGRAM ELE	MENT NUMBER AND NAME		Februrary 2003 PROJECT NUMBER AND NAME
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCF		PROGRAM ELE	MENT NUMBER AND NAME		DDO IECT NI IMBED AND NAME
	10 D)				FINOSECT NOWDER AND NAME
DDO IECT CHANCE CHMMADY.	<b>'&amp;</b> P)	0603612M Marin	ne Corps Mine/Countermeasures	s Systems	C2106 Advance Mine Detector
PROJECT CHANGE SUMMARY:					
FY2002	FY2003	FY2004	FY2005		
(U) FY 2003 President's Budget:					
(U) Adjustments from the President's Budget: 0.000	0.497	5.881	5.754		
(U) Congressional/OSD Program Reductions	-0.011	-0.027	-0.130		
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings		-4.639	0.408		
(U) SBIR/STTR Transfer					
(U) Minor Affordability Adjustment					
(U) FY 2004 President's Budget: 0.000	0.486	1.215	6.032		

(U) C. OTHER PROGRAM FUNDING SUMMARY.

(U) Schedule: Not Applicable.(U) Technical: Not Applicable.

Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PMC BLI 632500 Demo Support Sys	0.000	0.000	2.041	3.432	1.100	11.659	10.715	5.829	0.000	34.776
Advanced Mine Detector										

(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 AMD development during concept and technology development. A backpack prototype, configured to detect TNT, 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:

FY03 - TBD Competetive Contract for program support

FY04 - ATC, 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.

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								DATE:							
		Exhibit R-3 Cost Analysis	1							I		ry 2003			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT						PROJECT NUMBER AND NAME					
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)				2M Marii		s Mine/C		neasures			C2106 Advance Mine Detector				
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target	
	Method	Activity &	_	FY 02	Award		Award		Award		Award	Cost to	Total	Value of	
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac	
Engineering & Design	TBD	TBD								1.132	2Q/05	Cont.	Cont.		
Systems Engineering	TBD	TBD								2.000	TBD	Cont.	Cont.		
Subtotal Product Dev			0.000	0.000		0.000		0.000		3.132		Cont	Cont		
Remarks:	•	•			•		•	•	•						
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target	
	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of	
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac	
Engineering Spt	TBD	MCSC Quantico VA				0.236	2Q/03	0.217	1Q/04	1.150	1Q/05	Cont.	Cont.		
Engineering Spt (FEOD)	TBD	MCSC Quantico VA						0.025	2Q/04						
Subtotal Support			0.000	0.000		0.236		0.242		1.150		Cont	Cont		
Remarks:	•		*		·		*		·		!	•			
Cost Categories		_	Total		FY 02		FY 03		FY 04		FY 05			Target	
	Method	Activity &	PY s	FY 02	Award	FY 03	Award	FY 04	Award	FY 05		Cost to	Total	Value of	
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost		Complete	Cost	Contract	
Testing	MIPR	Aberdeen Proving Grounds, MD						0.500	1Q/04		1Q/05	Cont.	Cont.		
Testing	MIPR	Yuma								0.500	TBD	Cont.	Cont.		
Subtotal T&E			0.000	0.000		0.000		0.500		1.000		Cont	Cont		
Dama aulua.															
Remarks:															
Cost Categories	Contract	Performing	Total		FY 02		FY 03		FY 04		FY 05			Target	
	Contract Method	Performing Activity &		FY 02	FY 02 Award	FY 03	FY 03 Award	FY 04	FY 04 Award	FY 05		Cost to	Total	Target Value of	
		1		FY 02 Cost	Award	FY 03 Cost	Award	FY 04 Cost	Award	FY 05 Cost	Award		Total Cost	•	
	Method	Activity &	PY s		Award		Award	Cost	Award	Cost	Award			Value of	
Cost Categories	Method & Type	Activity & Location	PY s		Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost Cont.	Value of	
Cost Categories  Management Spt	Method & Type	Activity & Location	PY s Cost	Cost	Award Date	<b>Cost</b> 0.250	Award Date	<b>Cost</b> 0.473	Award Date	<b>Cost</b> 0.750	Award Date	Complete Cont.	Cost Cont.	Value of	