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EXHIBIT R-2a, RDT&E Project Justification						DATE:					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)						PROGRAM ELEMENT NUMBER AND NAME 0603612M Marine Corps Mine/Countermeasures Systems			PROJECT NUMBER AND NAME C2106 Advanced Mine Detector		
COST (\$ in Millions)				FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	FY2012	FY2013
Project Cost				5.514	3.763	0.657	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty											
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:											
<p>The Advance Mine Detector (AMD) will be a man-portable system capable of detecting both metallic and nonmetallic buried mines regardless of fuse type. The AMD will alleviate a critical deficiency for detection of buried metallic and semi-metallic mines. Current mine detection technologies are only able to detect metallic mines. The Family of Explosive Ordnance Disposal (FEOD) mission is to provide a capability to neutralize the hazards associated with explosive ordnance that are beyond the normal capabilities of other specialties and present a threat to operations, installations, personnel and material. The FEOD Equipment accomplishes this mission by detecting, identifying, rendering safe, recovering, evacuating and disassembling, and/or disposing of unexploded ordnance with a variety of tools.</p>											
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:											
COST (\$ in Millions)				FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				0.590	0.500	0.000	0.000				
RDT&E Articles Qty											
AMD: Facilitate program transition to Marine Corps Systems Command (MARCORSYSCOM) from Office of Naval Research (ONR). Provide program management, technical support, and travel.											
COST (\$ in Millions)				FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				3.708	2.716	0.000	0.000				
RDT&E Articles Qty											
AMD: Conduct initial developmental testing and follow-up developmental testing and operational testing in various soil types and environmental conditions of the AMD prototype to determine system capabilities.											
COST (\$ in Millions)				FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				0.685	0.547	0.657	0.000				
RDT&E Articles Qty											
AMD: Update programmatic documentation and technical drawings. Development of technical manuals and training packages.											
COST (\$ in Millions)				FY 2006	FY 2007	FY 2008	FY 2009				
Accomplishment/Effort Subtotal Cost				0.531	0.000	0.000	0.000				
RDT&E Articles Qty											
AMD: Conduct Trade Studies to reduce power consumption/weight, improve detection depths, and sweep rate. Engineering and design studies to improve ergonomic characteristics, integrate human factors and finalize overall system design.											
(U) Total \$				5.514	3.763	0.657	0.000				

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February 2007

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(U) PROJECT CHANGE SUMMARY:	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) FY 2007 President's Budget:	3.216	3.777	0.653	0.000
(U) Adjustments from the President's Budget:				
(U) Congressional Program Reductions	0.002			
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	2.322			
(U) SBIR/STTR Transfer	-0.027			
(U) Minor Affordability Adjustments	0.001	-0.014	0.004	
(U) FY 2008 President's Budget:	5.514	3.763	0.657	0.000

CHANGE SUMMARY EXPLANATION:

- (U) Funding: See Above.
- (U) Schedule:
- (U) Technical:

(U) C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Compl</u>	<u>Total Cost</u>
PMC BLI 652000 Advanced Mine Detector	6.186	6.849	0.000	1.068	0.000	0.000	0.000	0.000	Cont	Cont
									Cont	Cont
									Cont	Cont

(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. 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 Initial Operational Test and Evaluation in preparation for full rate production. The production phase will employ a fixed price production contract.

(U) E. MAJOR PERFORMERS:

- FY06 - Anniston Army Depot, Anniston Alabama/ Aberdeen Test Center, Aberdeen, MD, Test Activity/MCAS, Yuma Arizona
- FY07 - Aberdeen Test Center, Aberdeen, MD, Test Activity