EXHIBIT R-2, RDT&E Budget Item Justification				DATE: **February 2008**				
APPROPRIATION/BUDGET ACTIVITY **RDT&E, N /BA-4 Demonstration/Validation**		PROGRAM ELEMENT (PE) NAME AND NO. **0603612M USMC Mine Countermeasures Systems-Adv Dev**						
COST ($ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost		**5.256**	**0.648**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
C2106 Advanced Mine Detector		**5.256**	**0.648**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
Quantity of RDT&E Articles								

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This Program Element (PE) includes funds for Marine Corps advanced development of mine/countermine programs to include items for mine detection, mine clearing, lane proofing and lane marking.

B. PROGRAM CHANGE SUMMARY

	FY2007	FY2008	FY2009
(U) FY 2008 PRESIDENT'S BUDGET:	**3.763**	**0.657**	**0.000**
(U) Adjustments from the President's Budget:			
(U) Congressional Program Reductions			
(U) Congressional Rescissions			
(U) Congressional Increases			
(U) Congressional Undistributed Reductions/Rescissions		-0.004	
(U) Reprogrammings	1.581		
(U) PR09 Program Review			
(U) SBIR/STTR Transfer	-0.088	-0.005	
(U) FY 2009 PRESIDENT'S BUDGET:	**5.256**	**0.648**	**0.000**

CHANGE SUMMARY EXPLANATION:

(U) Funding: See Above.

(U) Schedule: Not Applicable.

(U) Technical: Not Applicable.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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	**3.177**	**5.256**	**0.648**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
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 detecting both metallic and nonmetallic buried mines regardless of fuse type. The AMD will alleviate a critical deficiency fo 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.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST ($ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishment/Effort Subtotal Cost	**0.490**	**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	**1.671**	**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	**0.585**	**1.547**	**0.648**	**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	**0.431**	**0.493**	**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 $	**3.177**	**5.256**	**0.648**	**0.000**

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)	**0603612M Marine Corps Mine/Countermeasures Systems**	**C2106 Advanced Mine Detector**

(U) PROJECT CHANGE SUMMARY:	**FY 2006**	**FY 2007**	**FY 2008**	**FY 2009**
(U) FY 2008 President's Budget:	**3.177**	**3.763**	**0.657**	**0.000**
(U) Adjustments from the President's Budget:				
(U) Congressional Program Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Congressional Undistributed Reductions/Rescissions			-0.004	
(U) Reprogrammings		1.581		
(U) PR09 Program Review				
(U) SBIR/STTR Transfer		-0.088	-0.005	
(U) Minor Affordability Adjustments				
(U) FY 2009 President's Budget:	**3.177**	**5.256**	**0.648**	**0.000**

CHANGE SUMMARY EXPLANATION:

(U) Funding: See Above.

(U) Schedule:

(U) Technical:

(U) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
PMC BLI 652000 Advanced Mine Detector	6.186	0.494	5.736	1.673	0.757	0.766	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