

**UNCLASSIFIED**

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2002</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N /BA-4 Demonstration/Validation</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0603612M Marine Corps Mine/Countermeasures Systems</b>				PROJECT NUMBER AND NAME <b>C2106 Advance Mine Detector</b>			
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	<b>0.000</b>	<b>0.000</b>	<b>0.497</b>	<b>5.881</b>	<b>5.754</b>	<b>2.907</b>	<b>0.000</b>	<b>0.000</b>	<b>15.039</b>
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 for detection of plastic, surf zone and water mines. Current mine detection technologies are only able to detect metallic mines.

**PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY 2001 Accomplishments:** Not Applicable.

(U) **FY 2002 Planned Program:** Not Applicable

**(U) FY 2003 Planned Program:**

- (U) \$ 0.497 Prepare for program transition to MARCORSSYSCOM from ONR. Provide program management and technical support, travel, and update all program documentation.

(U)Total \$ 0.497

**PROJECT CHANGE SUMMARY:**

	FY2001	FY2002	FY2003
<b>(U) FY 2002 President's Budget:</b>			
(U) Adjustments from the President's Budget:	0.000	0.000	
(U) SBIR/STTR Transfer			
(U) Execution Adjustment			
(U) Minor Affordability Adjustment			
(U) Program Adjustment			
<b>(U) FY 2003 President's Budget:</b>	0.000	0.000	0.497

**CHANGE SUMMARY EXPLANATION:**

- (U) Funding: See Above.
- (U) Schedule: Not Applicable.
- (U) Technical: Not Applicable.

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<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost	
PMC BLI 632500 Adv Mine Detector		0.000	0.000	0.000	0.000	0.000	3.232	21.116	0.000	24.348
<b>(U) Related RDT&amp;E:</b> Not Applicable.										
<b>(U) D. ACQUISITION STRATEGY:</b> By leveraging off an ONR research and development program for mine detection, MCSC will maintain active involvement in the AMD development during Concept Exploration. A backpack prototype, configured to detect TNT, RDX, tetryl and metallic mines, will be delivered 2nd quarter FY 03 for MCSC test and evaluation. Results will determine readiness for a Milestone B decision. MCSC will transition the demonstrated technology into System Development and Demonstration phase for further development. MCSC will award a cost plus contract with negotiated contractor incentives in the areas of weight, sweep speed, and power consumption. After completion of Milestone B the program will go into LRIP. MSCS will conduct IOT&E of LRIP items in preparation for full rate production. The production phase will employ a fixed price production contract.										
<b>(U) E. SCHEDULE PROFILE:</b> Not Applicable.										