

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE
February 1999

BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
0604612M Marine Corps Mine/Countermeasures Systems

PROJECT
C2106

COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
C2106 ADVANCED COUNTERMEASURES SYSTEMS (ACS)	616	3791	1002	897	528	0	0	0	0	6834
Quantity of RDT&E Articles										

A. (U) Mission Description and Budget Item Justification:

(U) The ACS program is a “tool box” approach, using a variety of systems, each of which center on a particular aspect of the detection and neutralization of blast-hardened and complex-fused mines, and unexploded munitions. This includes current and future threat explosives that defeat the effectiveness of current minefield breaching systems. The Primary goals of this package are to achieve very high neutralization percentages against the targeted threat; joint applicability for use with primary assault platforms to include land and amphibious assaults. The ACS program researches and develops follow on detection, minefield clearing and assault breaching capabilities that will neutralize current and future blast-hardened and complex-fused mines. ACS will alleviate a critical deficiency in clearing minefields during amphibious operations. Current breaching assets are 1950s technology that do not meet breaching mission requirements.

(U) **Justification for Budget Activity:** This program is funded under Engineering and Manufacturing Development because of the need to research and test new and emerging technologies which will meet required mission criteria prior to production approval decisions.

(U) FY 1998 Accomplishments:

- (U) \$ 270 **Expeditionary Mine Clearance Systems:** Purchased remote control kit, integrate on the D8 dozer, test and evaluate its capability.
 - (U) \$ 60 **Advanced Mine Detector Program:** Funded Program Determination and Risk Reduction (PDRR).
 - (U) \$ 286 **Contractor Support:** Update program documentation, and provide management support.
- (U) Total \$ 616

R-1 Line Item 118

Budget Item Justification

(Exhibit R-2, Page 2 of 6)

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(U) FY 1999 Planned Program:

- (U) \$ 2976 **Expeditionary Mine Clearance Systems:** Procure, test and evaluate Flail system.
 - (U) \$ 500 **Ground Marking System:** Remanufacture existing Pathfinder Marking System. Integrate, test and evaluate with Flail system and with armored combat excavators.
 - (U) \$ 295 **Contractor Support:** Update all program documentation and provide management support.
 - (U) \$ 20 Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.
- (U)Total \$ 3,791

(U) FY 2000 Planned Program:

- (U) \$ 798 AMD: Remanufacture and engineering the prototype system to reduce power and weight requirements. Streamline the system for operational use.
 - (U) \$ 161 AMD: Contractor support to update program documentation and provide management support.
 - (U) \$ 43 AMD: Test and evaluate for validating the remanufacture and engineering efforts
- (U)Total \$ 1,002

B. (U) Project Change Summary

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) Previous President's Budget	912	3855	7119
(U) Adjustments to Previous President's Budget	-296	-64	-6117
(U) Current Budget Submit	616	3791	1002

(U) Change Summary Explanation:

- (U) Funding: FY 1998 adjustment reflects adjustment of -\$429K and a internal reprogramming increase of \$133K.
FY 1999 decrease reflects a economic assumption, a CAAS reduction.
FY2000 reflects a decrease of \$6103K and a decrease of \$14K for economic assumption adjustments.
- (U) Schedule: Not applicable
- (U) Technical: Not applicable

R-1 Line Item 118

Budget Item Justification

(Exhibit R-2, Page 3 of 6)

DATE
February 1999

BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

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C. (U) <u>Other Program Funding Summary</u> (APPN, BLI #, NOMEN)	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>
(U) PMC, BLI# 632500, Demolitions Support Systems	0	2,931	8358	5551	0	2033	3612	5303	CONT	CONT

(U) Related RDT&E

- (U) PE 0602131M (Marine Corps Landing Force Technology)
- (U) PE 0603612M (Marine Corps Mine/Countermeasures Systems)
- (U) PE 0603640M (Marine Corps Advanced Technology Demonstrations)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

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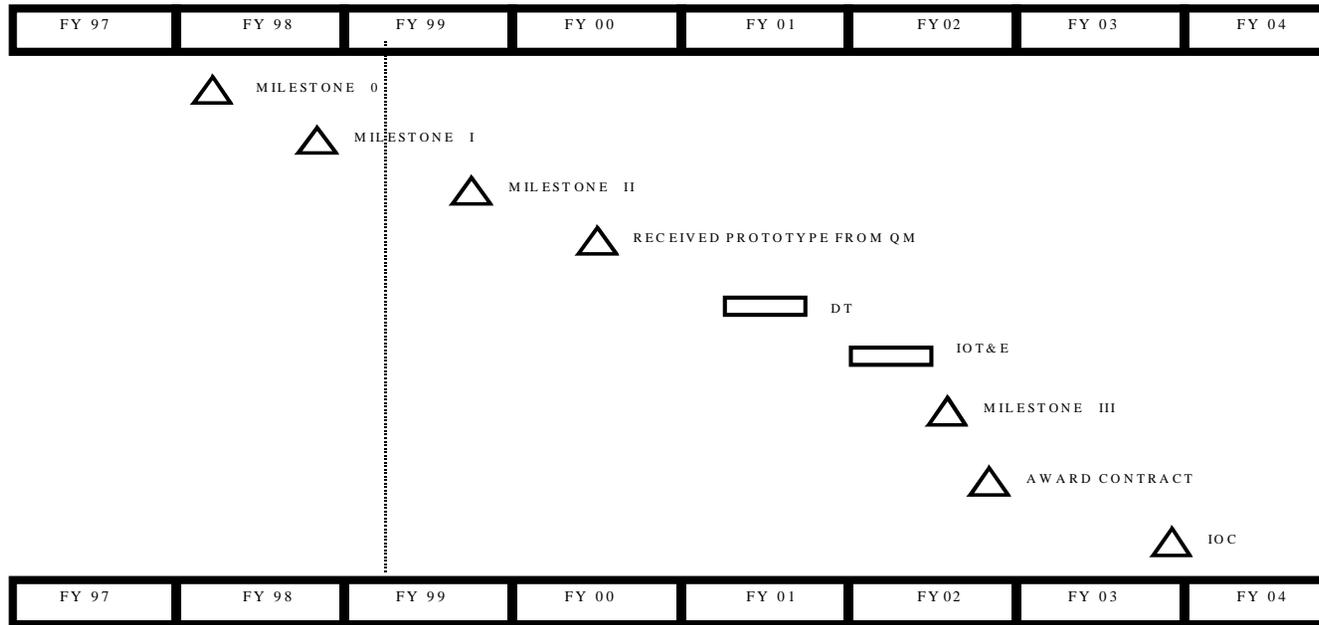
BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
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PROJECT
C2106

D. (U) Schedule Profile:

ADVANCED MINE DETECTOR SCHEDULE



R-1 Line Item 118

Budget Item Justification

(Exhibit R-2, Page 4 of 6)

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

DATE
February 1999

BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
0604612M Marine Corps Mine/Countermeasures Systems

PROJECT
C2106

A. (U) Project Cost Breakdown

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
Product Development	160	2666	798
Support and Management	406	510	161
Test and Evaluation	50	615	43
Total	616	3791	1002

B. Budget Acquisition History and Planning Information

Performing Organizations

Contractor or Government	Contract Method/Type	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	FY 1998	FY 1999	FY 2000	Budget to Complete	Total Program
Product Development Organizations										
TACOM	MIPR						2666		0	2666
TYNDALL, AFB	MIPR					160	0		0	160
QUANTUM										
MAGNETIC	MIPR							798	417	1215
Support and Management Organizations										
TACOM	MIPR					40	250		0	290
MKI	RCP					226	200	136	189	751
NWS, SEAL										
BEACH	WR					83	20		0	103
NSWC										
FALLBROOK	WR							15	30	45
PM SUPPORT						57	40	10	19	126

Test and Evaluation Organizations

R-1 Line Item 118

Budget Item Justification

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

DATE **February 1999**

BUDGET ACTIVITY 5 - Engineering and Manufacturing Development		PE NUMBER AND TITLE 0604612M Marine Corps Mine/Countermeasures Systems				PROJECT C2106	
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TACOM	MIPR				535		0	535
QUANTUM								
MAGNETICS	MIPR			50	80		0	130
APG, MD.	MIPR					43	770	813

Government Furnished Property

Item Description	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Delivery Date	Total Prior to FY 1998	FY 1998	FY 1999	FY 2000	Budget to Complete	Total Program
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Product Development Property

Support and Management Property

Test and Evaluation Property

	Total Prior to FY 1998	FY 1998	FY 1999	FY 2000	Budget to Complete	Total Program
Subtotal Product Development		160	2666	798	417	4041
Subtotal Support and Management		406	510	161	238	1315
Subtotal Test and Evaluation		50	615	43	770	1478
Total Project		616	3791	1002	1425	6834

R-1 Line Item 118

Budget Item Justification