

UNCLASSIFIED

MDA RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								DATE February 2002	
BUDGET ACTIVITY 4 - Program Definition and Risk Reduction				PE NUMBER AND TITLE 0603869C MEADS - DEM/VAL (PD-V)				PROJECT 1262	
COST (In Thousands)	FY2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY2005 Estimate	FY2006 Estimate	FY2007 Estimate	Cost to Complete	Total Cost
1262 Medium Extended Air Defense System (MEADS)	49700	0	0	0	0	0	0	Continuing	Continuing
<p>A. <u>Mission Description and Budget Item Justification</u> The MEADS program (PE0603869C) to include programmatic and funding will transfer to PE 0603881C, Terminal Defense Segment, FY 2002.</p> <p>The Medium Extended Air Defense System (MEADS) is an objective force system. It is an international cooperative program essential to fulfill the requirements of the U.S. Army and the U.S. Marine Corps for a low-medium air defense system in the 21st century. MEADS will offer a significant improvement in tactical mobility and strategic deployability over comparable missile systems. It will defend the maneuver force and other critical forward-deployed assets against short and medium range Theater Ballistic Missiles (TBMs), cruise missiles and other air-breathing threats throughout all phases of tactical operations. MEADS will operate both in an enclave with upper-tier systems in areas of debarkation and assembly and provide continuous coverage alone or with Short-Range Air Defense Systems (SHORAD) in the division area of the battlefield during movement to contact and decisive operations. MEADS will be interoperable with other airborne and ground-based sensors and utilize a netted and distributed architecture and modularly-configurable battle elements to provide a robust, 360-degree defense against short and medium range TBMs, cruise-missiles, unmanned-aerial-vehicles, tactical air to surface missiles, rotary-wing and fixed-wing threats.</p> <p>The MEADS program has been restructured to leverage the interceptor from the PATRIOT Advanced Capability – 3 (PAC-3) program and to extend the Program Definition/Validation (PD/V) phase with a three-year Risk Reduction Effort (RRE) that focuses on developing the critical technologies required for maneuver force protection and overall risk reduction. Pending formal approval of the International Memorandum of Understanding (MOU), a U.S. funded bridging effort commenced on 14 August 2000 to begin work on the highest risk and long-lead items in the RRE Scope of Work.</p> <p>There remains a critical void in maneuver force defense against short and medium range TBMs, cruise missiles, and low-to-medium altitude advanced air-breathing threats. This program will meet this challenge by integrating the PAC-3 missile and developing the critical technologies required for maneuver force protection, including development of a prototype lightweight launcher, 360-degree radar and tactical operation center. Concepts will be validated through proof-of-principle testing capitalizing on the already programmed Air-Directed Surface-to-Air Missile (ADSAM) demonstration efforts. The PAC-3 missile is the baseline interceptor for MEADS. Sensor and battle management software technology from both U.S. and international programs will be examined to enhance and augment organic-equipment functions, reducing development cost and risk. Improvements will be balanced against costs and the projected threat to develop a U.S. and allied capability to counter the maneuver force threat. This approach emphasizes prototyping of system-specific and surrogate hardware in key areas of Battle Management/Command, Control, Communications, Computers, and Intelligence (BM/C4I), fire control radar, and light weight launcher to satisfy mobility, strategic deployability and interoperability requirements. Cost as an Independent Variable (CAIV) analysis will be applied to the currently defined requirements. The Ballistic Missile Defense Organization (BMDO) is responsible for overall program management and direction. The U.S. Army Program Executive Officer for Air and Missile Defense and the MEADS National Product Office execute the program for BMDO.</p>									
Project 1262			Page 1 of 5 Pages			Exhibit R-2 (PE 0603869C)			

UNCLASSIFIED

MDA RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 2002
--	------------------------------

BUDGET ACTIVITY 4 - Program Definition and Risk Reduction	PE NUMBER AND TITLE 0603869C MEADS - DEM/VAL (PD-V)	PROJECT 1262
---	---	------------------------

FY 2001 Accomplishments:

- 35518 Continued U.S. contribution to the NATO MEADS Management Agency (NAMEADSMA) International Program Office operational and administrative budgets for the MEADS RRE contract and continued development of digital end-to-end simulation, development of prototype launcher, fire control and BM/C4I hardware and associated software and test planning.
 - 3000 Conducted program integration efforts that will examine Department of Defense (DoD) Joint Vision and Army transformation objective force mix and integration issues; support MEADS in the test and evaluation of Air and Missile Defense (AMD) task force interoperability and BMDS system integration; support development and maintenance of Joint Data Network Interface requirements and planning and appropriate planning of MEADS manpower, training, human factor and safety issues.
 - 7182 Continued funding for government agencies and support contracts to provide technical analysis and tools in specialty areas of lethality, BM/C4I and system simulations, as well as support of conducting independent evaluations of contractor trades and analysis.
 - 4000 Continued MEADS program management, support and salaries for both the national and international program offices. Includes U.S. efforts tied to national support of executing the replanned program and OSD directed documentation plan.
- Total 49700

FY 2002 Planned Program:

- 0 Reported under Terminal Defense Segment, Program Element 0603881C.
- Total 0

B. Program Change Summary	<u>FY2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Previous President's Budget (FY 2002 PB)	63175		
Congressional Adjustments	53475		
Appropriated Value			
BMDO Adjustments			
Adjustments to Appropriated Value			
a. Congressional Reductions	-716		
b. SBIR/STTR	-1160		
c. OSD Reductions			
d. Gov't wide Realignment (OSD)			
e. Rescissions	-116		
Adjustments to Budget Years Since <u>FY 2002 PB</u>	-1783		
Current Budget Submit (<u>FY 2003</u> Budget Estimates)	49700		

Change Summary Explanation:

BMDO RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 2002
---	------------------------------

BUDGET ACTIVITY 4 - Program Definition and Risk Reduction	PE NUMBER AND TITLE 0603869C MEADS - DEM/VAL (PD-V)
--	--

FY2001 -\$3775K:
 -\$372K for .7% general reduction
 -\$344K for section 8116 reduction
 -\$1160K for SBIR reduction
 -\$116K FY01 congressional rescission
 -\$1783K BMDO reductions

C. <u>Other Program Funding Summary</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Compl</u>	<u>Total Cost</u>
N/A									

Acquisition Strategy: The MEADS acquisition strategy included competition between two transatlantic industrial teams in the PD-V phase. These two international entities prepared and competed for the PD/V phases. As the Department of Defense and partner nations restructured the program, the PD/V phase was extended with the selection of a single contractor team to conduct a three-year RRE. In August 2000, the Defense Acquisition Executive (DAE) approved entry in the RRE. In this phase, technology from Germany, Italy and the United States, including the PAC-3 missile, will be leveraged to define the most cost-effective solution to meet the MEADS operational requirements. The MEADS Product Office is also pursuing integration of MEADS BMC4I with the Project Manager, Air & Missile Defense Command and Control Systems (AMDCCS), to take advantage of other Army developments that can be incorporated into the MEADS program.

E. <u>Schedule Profile</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
RRE Contract Award	4Q						

UNCLASSIFIED

MDA RDT&E COST ANALYSIS (R-3)

DATE
February 2002

BUDGET ACTIVITY
4 - Program Definition and Risk Reduction

PE NUMBER AND TITLE
0603869C MEADS - DEM/VAL (PD-V)

PROJECT
1262

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2002</u> Cost	<u>FY 2002</u> Award Date	<u>FY 2003</u> Cost	<u>FY 2003</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. International Teaming	FFP	LM/H&R Teams, AL	9605						9605	
b. Proj Def-Val (PD/V)	FFP	NAMEADSMA, AL	101672						101672	
c. Risk Reduction (RRE)	CPFF	LMMC, FL	6612						6612	
d. Bridging Effort	CPFF	NAMEADSMA, AL	12000						12000	
e. Implement TPRP	CPFF	LMMC, FL	3000						3000	
f. Multi-Spectra RF Datalink	CPFF	LMMC, TX	3000						3000	
g. Risk Reduction	CPFF	NAMEADSMA, AL	52580						52580	
h.										
Subtotal Product Development:			188469						188469	

Remark:

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY 2002</u> Cost	<u>FY 2002</u> Award Date	<u>FY 2003</u> Cost	<u>FY 2003</u> Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Int'l Program Office	LOE	NAMEADSMA, AL	6046						6046	
b. U.S. Anal of Alternatives	LOE/MIPR	MEADS Product Office, AL	2298						2298	
c. U.S. Contracts	LOE	MEADS Product Office, AL	8400						8400	
d. U.S. OGAs	MIPR	MEADS Product Office, AL	11160						11160	
e.										
Subtotal Support Costs:			27904						27904	

Remark:

UNCLASSIFIED

MDA RDT&E COST ANALYSIS (R-3)	DATE February 2002
--	------------------------------

BUDGET ACTIVITY 4 - Program Definition and Risk Reduction	PE NUMBER AND TITLE 0603869C MEADS - DEM/VAL (PD-V)	PROJECT 1262
---	---	------------------------

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	TBD
a. Redstone Tech Test Ctr	MIPR	Huntsville, AL	253						253	
b. ADSAM		SMDC, AL	9915						9915	
c.										
Subtotal Test and Evaluation:			10168						10168	

Remark:

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Internal Operating	In-House	MEADS Prod Office /NAMEADSMA, AL	14606						14606	
b.										
Subtotal Management Services:			14606						14606	

Remark:

Project Total Cost:			241147						241147	
---------------------	--	--	--------	--	--	--	--	--	--------	--

Remark: