

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 4 - Demonstration and Validation	PE NUMBER AND TITLE 0603640A Artillery Propellant Development	PROJECT DB91
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COST (In Thousands)	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
DB91 Artillery Propellant Development	7983	0	0	0	0	0	0	0	0	115572

A. Mission Description and Budget Item Justification: This program element focuses on the development of the Modular Artillery Charge System (MACS), intended for use with fielded 155mm field artillery systems equipped with M199 and M284 39 caliber cannons and the XM297 cannon under development for use on Crusader. The MACS includes two different types of charge increments - the XM231 designed to achieve ranges in zones 1 and 2, and the XM232 designed to achieve ranges in zones 3-6. Each increment contains propellant, an ignition system, and performance enhancing additives that are loaded in a combustible case. Funding for this effort transitions to PE 0603854A, Project D505 in FY 1999.

FY 1998 Accomplishments:

- 5815 Continued development of MACS for type classification.
 - 368 Project management support and management engineering services.
 - 1800 Continued testing for type classification of XM231 MACS for 39 caliber.
- Total 7983

FY 1999 Planned Program: Project will transition to PE 0603854A, Artillery Systems Advanced Development, Project D505, Crusader - AD

FY 2000 Planned Program: Project not funded in FY 2000

FY 2001 Planned Program: Project not funded in FY 2001

B. Program Change Summary	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 1999 PB)	8258	0	0	0
Appropriated Value	8521			
Adjustments to Appropriated Value				
a. Congressional General Reductions	-263			
b. SBIR/STTR	-207			
c. Omnibus or Other Above Threshold Reduction	-68			
d. Below Threshold Reprogramming				
e. Rescissions				
Adjustments to Budget Years Since FY 1999 PB				

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B. Program Change Summary			<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>				
Current Budget Submit (FY 2000/2001 PB)			7983	0	0	0				
C. Other Program Funding Summary										
	<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>	<u>To Comp</u>	<u>Total Cost</u>
Procurement, Ammo, Army, ER 8021			42938	55602	73182	93248	54184	78394	Cont	Cont
RDTE, BA4, Army, PE 0603854, D505	298012	311257	282937	120457					0	1241461
RDTE, BA5, Army, PE 0604854, D503			60577	315253	411143	258066	295415	23988	0	1364442
Procurement, WTCV, Army, G83500					41607	95543	382601	628003	9437130	10584884
Procurement, WTCV, Army, G83600					32967	80240	314331	499726	7633500	8560764
D. Acquisition Strategy: The current acquisition strategy for MACS entails component breakout of combustible case sets and propellants. Load, assemble and pack (LAP) will be achieved through competitive selection of a commercial contractor. Single year contracts will be pursued for FYs 00 and 01. Multi-year authority will be pursued for contracts awarded in FY03 and beyond.										
E. Schedule Profile										
	<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>		
Award XM232 L/A/P Contract	4 th Q*									
XM231 Test and Evaluation		4 th Q								
XM231 Milestone III		4 th Q								
M30 Propellant Mfg./ XM232		4 th Q								
XM232 Case Mfg.		4 th Q								
XM232 L/A/P		4 th Q								
XM232 Test and Evaluation			4 th Q							
XM232 Milestone III			4 th Q							
* Milestone completed										