

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT	
4 - Advanced Component Development and Prototypes				0603460A - Joint Air-to-Ground Missile (JAGM)					JA2	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
JA2 JOINT AIR-TO-GROUND MISSILE (JAGM)			53500							53500

A. Mission Description and Budget Item Justification: The Joint Air-to-Ground Missile (JAGM) is a fixed wing, rotary wing, and Unmanned Aerial Vehicle (UAV) launched missile system that provides advanced line-of-sight (LOS) and beyond-line-of-sight (BLOS) capabilities, including precision point targeting (both active and passive) and fire-and-forget seeker technologies; increased range; and increased lethality against soft and hardened moving and stationary targets. Since termination of the JAGM program's predecessor, Joint Common Missile (JCM), the Department of the Army and the Department of the Navy have continued maturation of key missile technologies. Maturation and preservation of these technologies will continue through FY07 using FY05 carryover funding and the FY06/07 Congressional funding. Prototype hardware of key critical technologies will be flight tested in both guided and unguided missile launches. Flight testing of an integrated all-up round will demonstrate an insensitive munitions (IM) rocket motor, increased range, fixed wing (FW) environment compatibility, tri-mode seeker and guidance control group, and composite structure technology in an operationally representative environment, and transitioning the system Technology Readiness Level (TRL) to seven. These technologies have broad applications to other weapon systems and services. The program will additionally demonstrate a multipurpose warhead with increased lethality across both the conventional and other-than-armor target set, while minimizing collateral damage.

The JAGM will replace aviation-launched TOW, the HELLFIRE family of missiles, and the Navy's Maverick family of missiles. JAGM will be a joint program with the Army, Navy and USMC, and a cooperative developmental effort with the UK that addresses rotary/fixed wing and UAV requirements. Threshold platforms include the Apache (AH-64D), the Super Hornet (F/A-18E/F), the Seahawk (MH-60R), and Super Cobra (AH-1Z). Two Army objective platforms, the Armed Reconnaissance Helicopter (ARH) and the Warrior Unmanned Aircraft System (UAS) will be integrated as part of the System Development and Demonstration (SDD) effort. The JAGM will increase the warfighters' operational flexibility by effectively engaging a variety of stationary and mobile targets on the battlefield, including advanced heavy/light armored vehicles, bunkers, buildings, patrol craft, command and control vehicles, transporter/erector (e.g., SCUD) launchers, artillery systems, and radar/air defense systems. Its multi-mode seeker will provide robust capability in adverse weather, day or night, and in an obscured/countermeasure environment, against both stationary and moving targets. JAGM supports more efficient logistics for expeditionary force tailoring by replacing several missile variants with a single, interoperable weapon. The warhead is designed for high performance against both armored and non-armored targets. It also allows flexibility in the location of resupply on the battlefield, thereby minimizing the logistic burden of the combat force. The technologies that enable these dramatic increases in warfighter capability are being maintained and matured in the FY 07 program.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Software Simulation Algorithm Maturity			30082	
Design Verification Test (DVT) - Warhead & Fuze, Sensor, Guidance Electronic Unit (GEU), Propulsion			10339	
Subsystem Component Design Reviews			13079	
Total			53500	

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<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)				
Current BES/President's Budget (FY 2008/2009)			53500	
Total Adjustments			53500	
Congressional Program Reductions				
Congressional Recissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
Adjustments to Budget Years			53500	

The JAGM is initiated in this Program Element with the intent of re-baselining the original JCM SDD phase II to completion, carrying the work forward from the technology maturation phase of JCM.

<u>C. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
Joint Common Missile (JCM)	24920	24724								49644

Comment: The JAGM program will continue the existing technology maturation effort developed by its predecessor JCM.

D. Acquisition Strategy The JAGM will be an MDAP ACAT 1D (Army Lead) joint program between the Army, Navy, USMC, and a co-operational development program with the UK. The JAGM program will continue the existing technology maturation effort culminating with a Defense Acquisition Board review in Aug 07. Following the DAB, the program will transition to SDD in 4QFY07. The program will restructure the existing JCM contract currently in place with Lockheed Martin, to complete the second phase of the original program's SDD effort in 48 months culminating with a Milestone C in 4QFY11. Following a Milestone C decision, the program will exercise two Fixed Price Incentive - Successive Targets (FPIS) LRIP options in FY12 and FY13 respectively.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
4 - Advanced Component Development and Prototypes			0603460A - Joint Air-to-Ground Missile (JAGM)									JA2		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Prime Contract	Lockheed Martin	Orlando, FL						35500	1-4Q				35500	
Support Contracts	Various	Various						5024	1-4Q				5024	
Development Engineering	Various	Various						3459	1-4Q				3459	
Subtotal:								43983					43983	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SETA Support	Various	Various						1600	1-4Q				1600	
Subtotal:								1600					1600	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Other Gov Agencies/ Government In-House Test Support	Various	Various						3985	2-4Q				3985	
Subtotal:								3985					3985	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
System Eng/ Project Management	Various	Various						3932	1-4Q				3932	
Subtotal:								3932					3932	

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

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0603460A - Joint Air-to-Ground Missile (JAGM)

JA2

Project Total Cost:

53500

53500

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY	PE NUMBER AND TITLE																PROJECT															
4 - Advanced Component Development and Prototypes	0603460A - Joint Air-to-Ground Missile (JAGM)																JA2															
Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Software Simulation Algorithm Maturity	[Red Grid]								[Blue Bar]																							
Design Verification Test - Warhead & Fuze, Sensor, Guidance Electronic Unit									[Blue Bar]																							
Subsystem Component Design Reviews									[Blue Bar]																							

Schedule Detail (R4a Exhibit)

February 2007

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<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Software Simulation Algorithm Maturity			1Q - 4Q					
Design Verification Test - Warhead & Fuze, Sensor, Guidance Electronic Unit			1Q - 4Q					
Subsystem Component Design Reviews			1Q - 4Q					

Termination Liability Funding For Major Defense Acquisition Programs, RDT&E Funding (R5)	February 2007
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Funding in \$000								
Program	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Joint Air-To-Ground Missile (JAGM)			53500					
Total Termination Liability Funding:			53500					

Remarks:
The funding for the contract will be incrementally funded and will contain FAR Clause 52.232-22. This clause limits termination liability to the amount placed on contract.