

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

060432□A - Common Missile

PROJECT

013

COST (In Thousands)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
013 JOINT COMMON MISSILE	85564	112185	0	0	0	0	0	0	0	246590

A. Mission Description and Budget Item Justification: The Joint Common Missile (JCM) is a fixed and rotary wing aviation-launched missile system that provides advanced line-of-sight (LOS) and beyond-line-of-sight (BLOS) capabilities, including precision strike, passive, and fire-and-forget seeker technologies; increased range; and increased lethality. Replacing aviation-launched TOW, the HELLFIRE family of missiles, and Maverick, JCM will become the weapon of choice for Army rotary-wing systems including the Longbow Apache (AH-64D). JCM is also a lethality candidate for Future Combat Systems (FCS) ground platforms. The JCM is a Joint program (rotary and fixed wing requirements) with the Navy and USMC for the Super Hornet (F/A-18E/F), the Seahawk (MH-60R), and Super Cobra (AH-1Z). Finally, JCM is a cooperative development program with the United Kingdom for their fixed and rotary wing aircraft. The JCM increases 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 required capability in adverse weather, day or night, and in an obscured/countermeasure environment against both stationary and moving targets. JCM supports more efficient logistics for expeditionary force tailoring by replacing several missile variants with a single, interoperable weapon. It also allows flexibility in the location of resupply on the battlefield, thereby minimizing the logistic burden of the combat force. JCM's extended shelf life and modular design will reduce life-cycle costs.

FY05 achieves Phase 1 objectives as part of a two-phased Increment 1 System Development and Demonstration (SDD) program. Phase 1 is focusing on risk mitigation (e.g. demonstrating progress toward meeting 16 kilometer range) culminating in a system Preliminary Design Review (PDR). The JCM program was terminated December 23, 2004 with language directing the identification of the capability needs to equip fixed wing tactical aircraft, rotary winged and unmanned air vehicles with precision air-to-ground close air support weapons using the JROC/Joint Capabilities Integration and Development System (JCIDS) process to support the FY 2008-2013 Program/Budget Review. The program will focus on a technology preservation and requirements analysis effort to capture and retain the technology developed during the Concept and Technology Development (C/TD) and Phase 1 SDD program and prepare for transition into future applications. This effort will focus on maturation of the missile and seeker algorithms to support the simulation which is essential in the definition of capabilities and requirements as directed. This effort will include captive flight testing with the already developed tri-mode seeker hardware to validate the simulations and evaluate the projected system performance. Risk reduction hardware procured during Phase 1 will be assembled into flight hardware, and guided missile flight tests will be performed to demonstrate missile system integration performance. Effort to continue risk reduction on any additional challenges identified during the course of Phase 1 will be completed and documentation of the results of this activity will be captured to facilitate transition of this technology into the future applications.

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Accomplishments/Planned Program

	FY 2004	FY 2005	FY 2006	FY 2007
Initiate risk mitigation phase, e.g., demonstrating progress toward 16 kilometer range (Conduct Phase 1 effort)	65680	0	0	0
Initiate Qualified Baseline Design, developmental testing, operational assessment and system integration and demonstration for SDD of Joint Common Missile	0	95274	0	0
Procure component hardware for engineering testing, prepare and update missile design documentation and procure prototype hardware and test	19884	16911	0	0
Totals	85564	112185	0	0

B. Program Change Summary

	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	152381	146851	83967
Current Budget (FY 2006/2007 PB)	112185	0	0
Total Adjustments	-40196	-146851	-83967
Net of Program/Database Changes			
Congressional Program Reductions	-36965		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-3231		
Adjustments to Budget Years		-146851	-83967

FY05 decreased \$35.0 million as a result of Congressional reduction.

In December 2004, the Department decided to terminate the Joint Common Missile Program in lieu of evaluation of close air support alternatives.

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BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 060432□A - Common Missile	PROJECT 013
<p><u>C. Other Program Funding Summary:</u> Not applicable for this item.</p> <p><u>D. Acquisition Strategy:</u> In JCM's previous phase, C/TD, JCM contractors were selected via full and open competition. The JCM program's acquisition strategy consisted of two increments in an evolutionary acquisition: the full Increment 1 capability will be acquired in a 48 month System Development and Demonstration effort through a two-phased approach. Phase 1 focuses on risk mitigation culminating in a system Preliminary Design Review (PDR). Immediately following, Phase 2 was planned to focus on system integration and demonstration leading to a Milestone C decision. The Increment 1 SDD effort was competed among the C/TD contractors for contract award covering Phase 1 and Phase 2 development and was awarded to Lockheed Martin, May 2004.</p>		