

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**February 2006**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604329A - Common Missile</b>					<b>PROJECT</b> <b>013</b>			
COST (In Thousands)	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost	
013 Joint Common Missile	112376	25630	0	0	0	0	0	0	277260	

**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. The 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. Since termination, the Department of the Army and the Department of the Navy have continued technology maturation. Maturation and preservation of key JCM technologies will continue through September 2006 using FY 05 carryover funding and the FY 06 Congressional addition. Prototype hardware of key critical technologies will be flight tested in both guided and unguided missile launches. This anticipated achievement will demonstrate in-flight testing, a highly compliant insensitive munitions (IM) rocket motor, extended range, fixed wing (FW) environment compatibility, multi-spectrum guidance group, composite structure technology and has broad applications to other weapon systems and services. The program will additionally demonstrate a multifunction warhead with greater efficiency than any anti-armor warhead fielded to date and a multipurpose anti-personnel, anti-material, military operation urban terrain (MOUT) capable warhead that limits collateral damage.

JCM was scheduled to replace aviation-launched TOW, the HELLFIRE family of missiles, and Navy Maverick family of missiles. This requirement remains unfulfilled and the JROC has reaffirmed the original JCM requirement. The JCM was 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) and was a cooperative development program with the United Kingdom for their fixed and rotary wing aircraft. The JCM increased 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 was to provide required capability in adverse weather, day or night, and in an obscured/countermeasure environment against both stationary and moving targets. JCM supported more efficient logistics for expeditionary force tailoring by replacing several missile variants with a single, interoperable weapon that had the potential for dramatic cost saving by combining the Fixed Wing and Rotary Wing requirements for production efficiency. It also allowed 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 would have reduced life-cycle costs. The technologies that enabled these dramatic increases in warfighter capability are being maintained and matured in the FY 06 program to be made available to follow-on programs.

<u>Accomplishments/Planned Program</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Initiate Qualified Baseline Design, developmental testing, operational assessment and system integration and demonstration for System Development and Demonstration (SDD) of Joint Common Missile	95465	0	0
Procure component hardware for engineering testing, prepare and update missile design documentation and procure prototype hardware and test	16911	0	0
Continue to Mature Seeker, Motor, Warhead	0	17225	0
Guided Flight Tests (3) and Expanded Tower/Captive Flight Tests	0	5758	0
Simulation and Algorithm Maturity	0	2647	0
<b>Total</b>	<b>112376</b>	<b>25630</b>	<b>0</b>

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<b><u>B. Program Change Summary</u></b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	112185	0	0
Current BES/President's Budget (FY 2007)	112376	25630	0
Total Adjustments	191	25630	0
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases		25630	
Reprogrammings	191		
SBIR/STTR Transfer			
Adjustments to Budget Years			

Congressional plus up in FY06 of \$25,630,000 for continued Joint Common Missile development.

<b><u>C. Other Program Funding Summary</u></b>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
Not applicable for this item.	0	0	0	0	0	0	0	0	0

Comment:

**D. Acquisition Strategy** The program has been directed to use the remaining FY 05 funding, carried over into FY06, to conduct critical technology maturation. Both the FY05 funding and the \$30 million (\$26 million Army and \$4 million Navy) Congressional add on funding will focus on maturation of key missile technologies and seeker algorithms to support next generation missile development. The technology test and evaluation effort will continue to support next generation missile development for future air-to-ground applications.