

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604□1□A - LOSAT

PROJECT
046

COST (In Thousands)		FY 2004 Actual	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
046	LINE-OF-SIGHT ANTI-TANK (LOSAT) MISSILE	29417	21744	0	0	0	0	0	0	0	61764

A. Mission Description and Budget Item Justification: The LOSAT weapon system consists of a Kinetic Energy Missile (KEM) launcher mounted on a heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) chassis. Line-of-Sight Anti-Tank (LOSAT) and the KEM technology provides light forces needed lethality and the foundation for the Future KEM integration. This program focuses on the integration of the LOSAT weapon system into a light, early deployable configuration in order to help remedy the urgent need for the early entry force lethality shortfall against heavy armor. LOSAT offers a highly mobile, near-term, advanced capability for overwhelming armor destruction with a high rate of fire, increased range, and increased force survivability. LOSAT, deployed in the early entry force, will provide the decisive edge to win swiftly with minimum casualties and provides an assault support weapon capability. LOSAT is strategically and tactically deployable, giving Commanders and decision makers greater flexibility. Once in theater, LOSAT is extremely mobile and can be air dropped or sling loaded under CH-47 and UH-60L aircraft. The performance of this hypervelocity kinetic energy missile (velocity of a mile per second) is not affected by the proliferation of emerging threat active protective systems and enhanced reactive armors, which are both rapidly becoming available on the global marketplace. LOSAT was initiated as a DoD-approved Advanced Concept Technology Demonstration (ACTD) program in FY 1998 to position the technology for future acquisition decisions; demonstrate subsystem capabilities in flight tests and dirty battlefield environments; evaluate the utility of the LOSAT technology for the early entry forces; demonstrate an integrated HMMWV-based LOSAT system, in-flight tests, and advanced war fighting experiments; and evaluate affordability issues. The work in this program element is consistent with the Army Science and Technology Master Plan, and the Army Modernization Plan. In December 1999, the Army and OSD funded the LOSAT accelerated advanced development and procurement, by adding additional design activities, reducing risk, completing system qualification testing, and adding additional Operational tests to support transition to limited production of the LOSAT Weapon System.

<u>Accomplishments/Planned Program</u>	FY 2004	FY 2005	FY 2006	FY 2007
Accomplished Fabrication of Enhanced Design Prototype Fire Units/Live Fire Units.	6956	0	0	0
Accomplished Supportability Analysis and Demonstration and Logistics Management Information.	5738	0	0	0
Delivered Enhanced Training Simulators and conducted Soldier Training for operational tests.	3892	0	0	0
Perform full Developmental/Operational Tests and Evaluations.	8280	1445	0	0
Perform Live Fire Test and Evaluation (LFTE).	4551	1194	0	0
Logistical documentation/design updates/fabrication of IOTE missiles(10)	0	14249	0	0

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Accomplishments/Planned Program B(continued)

	FY 2004	FY 2005	FY 2006	FY 2007
Program management and technical support	0	4856	0	0
Totals	29417	21744	0	0

B. Program Change Summary

	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	22628	0	0
Current Budget (FY 2006/2007 PB)	21744	0	0
Total Adjustments	-884	0	0
Net of Program/Database Changes			
Congressional Program Reductions	-327		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-557		
Adjustments to Budget Years			

C. Other Program Funding Summary

	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
H09000 LOSAT	34341	14942	0	0	0	0	0	0	0	49283
0603654A Line-of-Sight Technology Demo	8739	0	0	0	0	0	0	0	0	8739

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BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604□1□A - LOSAT	PROJECT 046
<p><u>D. Acquisition Strategy:</u> The Line-of-Sight Anti-Tank additional development and qualification effort is being conducted in conjunction with the on-going ACTD effort. The ACTD contract awarded in April 1998 was modified in December 2000 to include the System Development and Demonstration (SDD) effort.</p>		