

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604819A - Line-of-Sight Anti-Tank (LOSAT) Missile				PROJECT 046		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
046 LINE-OF-SIGHT ANTI-TANK (LOSAT) MISSILE	0	26555	21596	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u></p> <p><u>PLEASE NOTE:</u> This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.</p> <p>Line-of-Sight Anti-Tank (LOSAT) and the Kinetic Energy Missile (KEM) technology provide the foundation for the Objective Force. This program focuses on the integration of the LOSAT weapon system into an air-mobile configuration in order to help remedy the early entry force lethality shortfall against heavy armor in support of the Army Transformation. The LOSAT weapon system consists of a kinetic energy (KE) missile launcher mounted on a heavy High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) chassis. 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 with an assault support weapon capability. LOSAT is strategically and tactically deployable, giving commanders and decision makers greater flexibility. The performance of this hypervelocity (velocity of a mile per second) kinetic energy missile is not affected by the proliferation of emerging threat active protective systems and enhanced reactive armors which are rapidly becoming available on the global marketplace. In FY98, LOSAT was initiated as a DOD-approved Advanced Concept Technology Demonstration (ACTD) program to position it for future acquisition decisions, demonstration of subsystem capabilities in flight tests and dirty battlefield environments, evaluation of its utility for early entry forces, demonstration of an integrated HMMWV-based LOSAT system in-flight tests and advanced warfighting experiments, and evaluation of affordability issues. In December 1999, the Army and DOD, funded the LOSAT accelerated advanced development and procurement as part of the Army Transformation, adding additional design activities, test hardware, and qualification and operational tests concurrent with the ACTD, which will assure design maturity support for entry into Low Rate Initial Production (LRIP) in FY 04. This EMD effort is concurrent with the ACTD contract. The ACTD is funded in PE 0603654A. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2000 Accomplishments</u></p> <p style="padding-left: 40px;">Project not funded.</p>										

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PE NUMBER AND TITLE

**0604819A - Line-of-Sight Anti-Tank (LOSAT)
Missile**

PROJECT

046**FY 2001 Planned Program**

- 3380 Update Performance Specifications to include new Operational Requirements Document.
- 10685 Update Missile and Fire Unit preliminary designs to incorporate new Performance Specification Requirements.
- 1740 Update Fire Unit software requirements analysis to incorporate new Performance Specification Requirements.
- 2500 Conduct Reliability, Maintainability, Producibility analyses.
- 4560 Begin enhanced Built-in-test/Built-in-test equipment requirements into electronic components of Fire Unit and Missile.
- 2900 Begin Supportability analysis to support production/fielding objectives.
- 790 Small Business Innovative Research/Small Business Technology Transfer.

Total 26555

FY 2002 Planned Program

- 8266 Complete Fire Unit detail designs incorporating new performance specification requirements, and initiate fabrication of new hardware requirements.
- 2145 Complete Missile detail designs incorporating new performance specification requirements.
- 2300 Begin Missile fabrication, assembly, and test of additional qualification test hardware.
- 1000 Finalize design modifications and initiate fabrication of resupply trailer and HMMWV.
- 2385 Finalize software enhancements and BIT/BITE software into Fire Unit software.
- 5500 Continue supportability analysis to support production/fielding objectives.

Total 21596

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	0	26800	21500	0
Appropriated Value	0	26800	0	0
Adjustments to Appropriated Value	0	0	0	0
a. Congressional General Reductions	0	0	0	0
b. SBIR / STTR	0	0	0	0
c. Omnibus or Other Above Threshold Reductions	0	0	0	0
d. Below Threshold Reprogramming	0	0	0	0
e. Rescissions	0	-245	0	0
Adjustments to Budget Years Since FY2001 PB	0	0	96	0
Current Budget Submit (FY 2002/2003 PB)	0	26555	21596	0

<u>C. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
H09100 LOSAT	0	0	11427	0	0	0	0	0	0	0
0603654A Line-of-Sight Technology Demo	37326	50262	57384	0	0	0	0	0	0	0

C. Other Program Funding Summary: *FY02/03 Procurement funds will procure 144 missiles which is the residual inventory of the ACTD effort.

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D. Acquisition Strategy: The Line-of-Sight Anti-Tank additional development and qualification effort to support the Army Transformation will be conducted in conjunction with the on-going ACTD effort, and the US Army Aviation and Missile Command (AMCOM) has awarded the EMD contract. A Milestone Decision Review will be conducted in FY04 to assess design maturity and authorize entry into Low Rate Initial Production (LRIP).

<u>E. Schedule Profile</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>FY 2006</u>	<u>FY 2007</u>
Award Risk Reduction Design and Test		1Q		0	0	0	0	0
Preliminary Design Reviews		3Q		0	0	0	0	0
Complete Component Level Qualifications			2Q	0	0	0	0	0
Begin Missile and Fire Unit Assembly			3Q	0	0	0	0	0
Begin System Qualification and Flight Tests				0	0	0	0	0
Begin User Experimentation				0	0	0	0	0
Complete Qualification and Flight Tests				0	0	0	0	0
Limited User Testing				0	0	0	0	0
LRIP Decision Milestone				0	0	0	0	0
Fielding and Extended User Evaluation				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . EMD Contract	CPIF	LMMFC, Dallas, TX	0	19515	1Q	13438	1Q	0	0	0	0	0
b . Live Fire Hardware	CPFF	Alliant Tech	0	1610	2Q	0		0	0	0	0	0
c . RDEC Support	TBD	Huntsville, AL	0	290		2366		0	0	0	0	0
d . Follow-on-Development	TBD	TBD	0	0		0		0	0	0	0	0
Subtotal:			0	21415		15804		0		0	0	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . In-House Support			0	2864		3241		0	0	0	0	0
b . Functional Government Support			0	238		318		0	0	0	0	0
c . MISC			0	868		20		0	0	0	0	0
Subtotal:			0	3970		3579		0		0	0	0

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Range Support			0	465		698		0	0	0	0	0
b . Other Test			0	52		245		0	0	0	0	0
Subtotal:			0	517		943		0		0	0	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . System Engineering Tech Asst		Huntsville, AL	0	653		1270		0	0	0	0	0
Subtotal:			0	653		1270		0		0	0	0
Project Total Cost:			0	26555		21596		0		0	0	0