

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE February 2000					
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604819A Line-of-Sight Anti-Tank				PROJECT D046				
COST (In Thousands)				FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D046 Line-of-Sight Anti-Tank				0	0	26800	21500	14114	14871	15853	0	93138
<p>A. Mission Description and Budget Item Justification: Project D460-LOSAT Engineering & Manufacturing Development: This program focuses on the integration of the Line-of-Sight Anti-Tank (LOSAT) weapon system into an air-mobile configuration in order to help remedy the early entry force lethality shortfall against heavy armor. 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 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. 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 test and advanced warfighting experiments; and evaluate affordability issues.</p> <p>The effort funded in this PE supports the New Army Vision/Transformation by adding additional design activities, providing additional test hardware, and conducting additional qualification and Operational tests concurrent with the ACTD to assure additional design maturity support for entry into Low Rate Initial Production (LRIP) in FY 04. This effort supports the ongoing ACTD effort to assure readiness for entry in LRIP in FY 04 at the conclusion of ACTD test/demonstration phase. This is done in lieu of following the ACTD period with a follow-on EMD effort which would delay LRIP until FY 06 or later. The ACTD effort is funded in PE 0603654A.</p> <p>FY 1999 Accomplishments: Project not funded in FY 1999.</p> <p>FY 2000 Planned Program: Funding for New Army Transformation has yet to be determined.</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 26800 Funds will be used in support of the New Army Vision/Transformation. <ul style="list-style-type: none"> a. 5023 – Complete Design of Additional User Requirements into Fire Unit Hardware and Software. b. 8459 – Initiate Fabrication of Additional Fire Units and Missiles for Full Qualification Testing During Period. c. 4544 – Provide Additional Logistics Support Analysis to Support Early Fielding of Tactical Hardware. d. 5277 – Accelerate ACTD Development Tasks to reduce subsequent Risk in Qualification Test Period. e. 1041 – Conduct Early Soldier Involvement in Design Reviews, Tactics, Techniques, and Procedures Development. f. 2456 – Initiate Pilot Production Line to Support Delivery of Production Representative Hardware for Limited User Test. <p>Total 26800</p>												
Project D046				Page 1 of 5 Pages				Exhibit R-2 (PE 0604819000)				

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B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 2000/2001 PB)	0	0	0
Appropriated Value			
Adjustments to Appropriated Value			
a. Congressional General Reductions			
b. SBIR / STTR			
c. Omnibus or Other Above Threshold Reductions			
d. Below Threshold Reprogramming			
e. Rescissions			
Adjustments to Budget Years Since FY 2000/2001 PB			0
New Army Vision/Transformation Adjustment		TBD	+26800
Current Budget Submit (FY 2001 PB)	0	0	+26800

Change Summary Explanation: Funding – FY 01: Project 046 was adjusted to reflect the new Army Transformation.

C. Other Program Funding Summary	<u>FY 1999</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>To</u> <u>Compl</u>	<u>Total</u> <u>Cost</u>
Missile Procurement Army									
H09100 LOSAT	0	0	0	*9366	*17902	61374	97667	665959	852268

*Procurement funds in FY 02/03 are for ACTD Residual Missile Hardware; LRIP will begin in FY 04.

D. Acquisition Strategy: The Line-of-Sight Anti-Tank additional development and qualification effort to support the New Army Vision/Transformation will be conducted in conjunction with the on-going ACTD effort; and will be contracted by the US Army Aviation and Missile Command (AMCOM). A Milestone Decision Review will be conducted in FY 04 to assess design maturity, and authorize entry into Low Rate Initial Production.

E. Schedule Profile	<u>FY 1999</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>
Award Risk Reduction Design and Test			1QTR				
Preliminary Design Reviews and Material Orders			3QTR				
Complete Component Level Qualifications				1QTR			
Begin Missile and Fire Unit Assembly				2QTR			
Begin System Qualification and Flight Tests				3QTR			
Begin User Experimentation					1QTR		
Complete Qualification and Flight Tests					3QTR		
Limited User Testing					4QTR		
LRIP Decision Milestone						1QTR	

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BUDGET ACTIVITY
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PE NUMBER AND TITLE
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E. Schedule Profile	<u>FY 1999</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>
Fielding and Extended User Evaluation						1-4QTR	1-4QTR

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ARMY RDT&E COST ANALYSIS (R-3)

DATE **February 2000**

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Risk Reduction Program	CPIF	LMVS, Dallas, TX				23625	Nov 00	19114	42739	
b. RDEC Support	TBD	Huntsville, AL				375		1600	1975	
c. Follow-on-Dev Effort	TBD	TBD						26524	26524	
Subtotal Product Development:						24000		47238	71238	

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. In-House Support						1025		5925	6950	
b. Functional Govt Support						225		850	1075	
c. OGA						175		825	1000	
d. Misc OGA		Various				175		800	975	
Subtotal Support Costs:						1600		8400	10000	

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. In-House Support		Huntsville, AL				150		475	625	
b. Redstone Tech Test Ctr	PO	Huntsville, AL				125		2075	2200	
c. White Sands Msl Range	PO	WSMR, NM				725		2150	2875	
d. Aberdeen Test Ctr	PO	Aberdeen, MD						775	775	
e. TEXCOM	PO	Various						2225	2225	
f. Advanced Research Lab	PO	Various						1250	1250	
g. Misc OGA	PO	Various						750	750	
Subtotal Test and Evaluation:						1000		9700	10700	

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Sys Eng Tech Assist		Huntsville, AL				200		1000	1200	
Subtotal Management Services:						200		1000	1200	
Project Total Cost:						26800		66338	93138	