BUDGET ACTIVITY 5 - System Development and Demonstration FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Cost to Estimate Estimate Estimate Estimate Estimate Estimate Estimate Estimate FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Complete FY 2006 Estimate Estim	ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	Exhibi	it)	Fe	ebruary 2	003	
COST (In Thousands) Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate Complete 046 LINE-OF-SIGHT ANTI-TANK (LOSAT) 24773 13597 30809 22610 0 0 0 0 0 0 117153											
Actual Estimate Estimate Estimate Estimate Estimate Estimate Estimate Estimate Complete 046 LINE-OF-SIGHT ANTI-TANK (LOSAT) 24773 13597 30809 22610 0 0 0 0 0 0 117153	COST (In Thousands)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost
	Cost (in Thousands)	Actual	Estimate	Complete							
		24773	13597	30809	22610	0	0	0	0	0	117153

A. Mission Description and Budget Item Justification: Line-of-Sight Anti-Tank (LOSAT) and the Kinetic Energy Missile (KEM) technology provides the foundation for the Objective Force Kinetic Energy Missile Requirement. 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 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. Once in theater, LOSAT is extremely mobile, to include air droppable and sling loading under CH-47 and UH-60L aircraft. The performance of the 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 to support entry into Low Rate Initial Production (LRIP) in FY04. The System Development Demonstration (SDD) effort is funded in this Program Element (PE) and is concurrent with the ACTD contract. The ACTD is funded in PE 0603654A. This system supports the Legacy to Objective Force transition path of the Transformation Campaign Plan (TCP).

Accomplishments/Planned Program Completed Fire Unit Detail Designs incorporating new performance specification requirements.	FY 2002 4857	FY 2003 0	FY 2004 0	FY 2005 0
Completed Missile Detail Designs incorporating new performance specification requirements.	2145	0	0	0
Completed design and fabricated Resupply Trailers and Resupply HMMWV Modifications.	1001	0	0	0
Finalize Fire Unit Software Enhancements, Fire Unit BIT/BITE software, and perform System Level Certification.	2181	742	0	0
Fabrication of Missiles with Enhanced Design and perform developmental/operational, tests and evaluations.	3682	1135	0	0

ARMY RDT&E BUDGET ITEM JUSTIF	ICATION (R-2 Exhibit)	February 2003
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604819A - LOSAT	ргојест 046

Accomplishments/Planned Program (continued)	FY 2002	FY 2003	FY 2004	FY 2005
Fabrication of Enhanced Design Prototype Fire Units/Live Fire Unit, and refurbishment of Fire Units.	5316	1474	6950	0
Perform full, Developmental/Operational Tests and Evaluations.	2425	4126	8645	12815
Continue Supportability Analysis, finalize Logistics Management Information, and perform Supportability Demonstration.	3166	1936	5706	250
Deliver Enhanced Training Simulators and conduct Soldier Training for operational tests.	0	1391	3892	2920
Perform Live Fire Test and Evaluation (LFTE).	0	2793	5616	6625
Totals	24773	13597	30809	22610

B. Program Change Summary	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	21416	14463	15183	16160
Current Budget (FY 2004/2005 PB)	24773	13597	30809	22610
Total Adjustments	3357	-866	15626	6450
Congressional program reductions				
Congressional rescissions		-467		
Congressional increases				
Reprogrammings	3889	-78		
SBIR/STTR Transfer	-532	-321		
Adjustments to Budget Years			15626	6450

FY 2002 funds reprogrammed for support of Missile and Fire Unit development effort.

FY 2004 and FY 2005 funds increased to support Initial Operational Test and Evaluation (IOTE), Vulnerability/Lethality Test, LFTE equipment and support.

ARMY RDT&E BUDGET BUDGET ACTIVITY	TTEM JUST		TION MBER AND	•	xhibit)		Feb	ruary 20			
5 - System Development and Demonstration			819A - L				PROJECT 046				
C. Other Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Co	
H09100 LOSAT	0	0	43232	86585	111465	108646	138767	104030	•	8772	
0603654A Line-of-Sight Technology Demo	72530	26955	8847	0		0		104030		1083	
. Acquisition Strategy: The Line-of-Sight Anti-Ta	nk additional developme	ent and qua	lification ef	ffort to supp	oort the Arn	ny Transfor	rmation is b	eing condi	ucted in con	junction	
D. Acquisition Strategy: The Line-of-Sight Anti-Ta with the on-going ACTD effort. The ACTD contract a offort. A Milestone Decision Review will be conducted	warded in April 1998 wa	as modified	l in Decemb	per 2000 to	include the						
	warded in April 1998 wa	as modified	l in Decemb	per 2000 to	include the						
with the on-going ACTD effort. The ACTD contract a	warded in April 1998 wa	as modified	l in Decemb	per 2000 to	include the						
with the on-going ACTD effort. The ACTD contract a	warded in April 1998 wa	as modified	l in Decemb	per 2000 to	include the						
with the on-going ACTD effort. The ACTD contract a	warded in April 1998 wa	as modified	l in Decemb	per 2000 to	include the						

BUDGET ACTIVITY 5 - System Development and Demonstration					LYSIS(R-3) PE NUMBER AND TITLE 0604819A - LOSAT					February 2003 PROJECT 046			
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a . SDD Contract	CPIF	LMMFC, Dallas, TX	34157	1474	2Q	9820	2Q	2000	1Q	0	47451	0	
b . Live Fire Hardware	CPFF	Alliant Tech	1629	0		0		0		0	1629	0	
c . RDEC Support	TBD	Huntsville, AL	5837	3150	2-4Q	3921	1-4Q	2804	1-4Q	0	15712	0	
			41623	4624		13741		4804		0	64792	0	
Subtotal:													
Subtotal: II. Support Cost	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2003 Cost		FY 2004 Cost	FY 2004 Award	FY 2005 Cost	FY 2005 Award	Cost To Complete	Total Cost	Target Value of	
		Performing Activity & Location Huntsville, AL	Total PYs Cost		Award Date								
II. Support Cost	Method &	Location	PYs Cost	Cost	Award Date 2-4Q	Cost	Award Date	Cost	Award Date	Complete	Cost	Value of Contract	
II. Support Cost a . In-House Support	Method &	Location Huntsville, AL	PYs Cost	Cost 583	Award Date 2-4Q 2-4Q	Cost 1712	Award Date 1-4Q	Cost 1086	Award Date 1-4Q	Complete 0	Cost 4543	Value of Contract	
II. Support Cost a . In-House Support b . Funct Govt Spt	Method &	Location Huntsville, AL Huntsville, AL	PYs Cost 1162 2768	583 896	Award Date 2-4Q 2-4Q	Cost 1712 877	Award Date 1-4Q	Cost 1086 795	Award Date 1-4Q	Complete 0 0	Cost 4543 5336	Value of Contract 0	

BUDGET ACTIVITY 5 - System Developm		Y RDT&E CO	SI AIN	PE N	PE NUMBER AND TITLE 0604819A - LOSAT					February 2003 PROJECT 046			
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a . Range Support		Various Sites	788	3617	1-4Q	6783	1-4Q	10456	1-4Q	0	21644	0	
b . Other Test		Various Sites	1556	3074	1-4Q	6505	1-4Q	4462	1-4Q	0	15597	0	
c . GFE		Smith Industries, Grand Rapid, Minnesota	366	0		0		0		0	366	0	
Subtotal:			2710	6691		13288		14918		0	37607	0	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a . System Engineering Tech Asst	T&M	Huntsville, AL	1628	623	1-4Q	718	1-4Q	778	1-4Q	0	3747	0	
			1628	623		718		778		0	3747	0	
Subtotal:													
Subtotal:		1											

Schedule Profile	Detail (R-4a	Exhibi	t)				February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration			ER AND TIT PA - LOS		·		PROJECT 046			
Schedule Detail	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
Critical Design Review	1Q								1	
Begin Missile and Fire Unit Assembly	3Q									
Complete Component Level Qualifications		2Q								
Begin System Qualification and Flight Tests		2Q								
Begin User Experimentation		4Q								
Limited User Testing			2Q							
Complete System Qualification and Flight Tests			2Q							
Milestone C			3Q							
Award LRIP Contract			3Q							
ACTD Hand Receipt (Fire Units)			4Q							
IOTE				4Q						
Begin Fielding					4Q					
First Unit Equiped (FUE)					4Q					