

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2004					
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0102419A - Joint Land Attack Cruise Missiles Defense (JLENS)			PROJECT E55					
COST (In Thousands)				FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
E55	JNT LAND ATK MSL DEF ELEVATED NETTED SENSOR-JLENS			33489	58397	81514	110561	260253	472603	335890	Continuing	Continuing
<p>A. Mission Description and Budget Item Justification: The Under Secretary of Defense (Acquisition and Technology) and the Army Acquisition Executive (AAE) directed the establishment of the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) Project Office (PO), for Land Attack Cruise Missile Defense (LACMD). This is a multiservice effort with the Army as the lead service. The JLENS PO is assigned to the Program Executive Office for Air, Space and Missile Defense. JLENS is a Future Force theater level system that meets the requirements of the Army transformation. JLENS uses advanced sensor and networking technologies to provide precision tracking and 360-degree wide-area over-the-horizon surveillance of land attack cruise missiles. A joint program, JLENS performs as a multi-role platform to enable extended range command and control linkages. A key element of the Army transformation Single Integrated Air Picture (SIAP), JLENS integrates data from multiple sensors and Command, Control, Communications, Computers Intelligence Surveillance and Reconnaissance (C4ISR) networks by providing correlated fire control and surveillance data. The JLENS system supports the future force transformation path of the Transformation Campaign Plan (TCP).</p>												
Accomplishments/Planned Program									FY 2003	FY 2004	FY 2005	
Continue contract design and development.									23627	41715	66553	
Continue work on lightweight x-band radar technology.									914	0	0	
Other contracts and OGA.									4789	8069	8529	
Project Management									4159	6952	6432	
Small Business Innovative Research/Small Business Technology Transfer Programs									0	1661	0	
Totals									33489	58397	81514	

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B. Program Change Summary

	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	28792	57549	56420
Current Budget (FY 2005 PB)	33489	58397	81514
Total Adjustments	4697	848	25094
Congressional program reductions		-556	
Congressional rescissions			
Congressional increases		1500	
Reprogrammings	4697	-96	
SBIR/STTR Transfer			
Adjustments to Budget Years			25094

FY05 - Funding increased for Cruise Missile Defense acceleration program.

C. Other Program Funding Summary

	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
BZ0525 - JLENS	0	0	0	0	0	0	28389	0	28389

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<p><u>D. Acquisition Strategy:</u> An initial capability is being developed (Spiral 1) and consists of a 35-meter class aerostat with a modified SENTINEL Enhanced Tracking Range and Classification (ETRAC) sensor system employing a 360-degree fire control and surveillance capability that will be available by 4QFY05. JLENS will design, develop, fabricate, integrate and test System Development and Demonstration (SDD) systems by 4QFY10. A JLENS system consists of a Precision Track Illumination Radar (PTIR), and a Surveillance Radar (SR), each with its own aerostat platform, mobile mooring station, mobile processing station, and associated ground support equipment. This SDD system can provide a contingency capability as early as FY08 should it be required. Developmental Test and Evaluation (DT&E) and Initial Operational Test and Evaluation (IOT&E) will be conducted in FY09-FY10 culminating in a First Unit Equipped (FUE) by 4QFY10.</p>		

ARMY RDT&E COST ANALYSIS(R3)									February 2004			
BUDGET ACTIVITY 7 - Operational system development					PE NUMBER AND TITLE 0102419A - Joint Land Attack Cruise Missiles Defense (JLENS)					PROJECT E55		
I. Product Development	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 . Concept Definition	CPFF	H&R/MA & CA	2007	0		0		0		0	2007	0
b . Concept Definition	CPFF	Lockheed Martin/N.Y./OH/AL	2000	0		0		0		0	2000	0
c . Concept Definition	CPFF	Northrop Grumman/MD	1981	0		0		0		0	1981	0
d . OGAs	MIPR	Multiple	14815	472		796		637		Continue	16720	Continue
e . Risk Mitigation, Design, Development	CR/CPIF	Raytheon System Co. MA/CA/FL	84895	23627		43376		66553		Continue	218451	Continue
g . GFE			1201	0		0		0		0	1201	0
h . CEC/ SM-2 CEC	MIPR	Navy/Multiple	4219	0		0		0		0	4219	0
i . Design/Dev/Demo Support	CPFF	CAS/AL	10024	2310		3892		4561		Continue	20787	Continue
j . Misc. Contracts	SS/CPFF	Multiple	5469	842		1419		1027		Continue	8757	Continue
k . ADaM			1800	0		0		0		0	1800	0
l . AOA/ORD/TEMP/MS B Prep			2235	987		1663		1876		0	6761	0
m . Lightweight x-band radar antenna			1897	914		0		0		0	2811	0

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I. Product Development (continued)	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
n . In-House JLENS		PEO AMD, HSV, AL	16692	4159		6952		6432		0	34235	0
Subtotal:			149235	33311		58098		81086		Continue	321730	Continue
II. Support Cost	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 . Misc Support			2084	0		0		0		0	2084	0
Subtotal:			2084	0		0		0		0	2084	0

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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 . Maintain Test Bed	SS/CPFF	CAS-TX, NM	2450	178		299		428		0	3355	0
b . Misc. OGA&Contracts	Mul/MPR	AL/TX/NM	1656	0		0		0		0	1656	0
Subtotal:			4106	178		299		428		0	5011	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
Subtotal:			0	0		0		0		0	0	0
Remarks: Not Applicable												
Project Total Cost:			155425	33489		58397		81514		Continue	328825	Continue

Schedule Profile (R4 Exhibit)																				February 2004																
BUDGET ACTIVITY 7 - Operational system development										PE NUMBER AND TITLE 0102419A - Joint Land Attack Cruise Missiles Defense (JLENS)										PROJECT E55																
Event Name	FY 02				FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
(1) ORD AROC					▲1																															
(2) ORD JROC									▲2																											
(3) MS B													▲3																							
(4) MS C																												▲4								
CMD Acceleration:																																				
(5) PDR																	▲5																			
(6) CDR																					▲6															
71M PTIR System													Development								Elevated Test															
71M SR System																					Development								Elevated Test							
Government Testing																													DT&E							

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Event Name	FY 02				FY 03				FY 04				FY 05				FY 06				FY 07				FY 08				FY 09			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
(1) ORD AROC					▲ 1																											
(2) ORD JROC									▲ 2																							
(3) MS B													▲ 3																			
(4) MS C																												▲ 4				
CMD Acceleration:																																
(5) PDR																	▲ 5															
(6) CDR																				▲ 6												
71M PTIR System													Development								Elevated Test											
71M SR System													Development								Elevated Test											
Government Testing																										DT&E ICR&F						

Schedule Detail (R4a Exhibit)						February 2004	
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<u>Schedule Detail</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
ORD AROC	1Q						
ORD JROC		2Q					
MS B			2Q				
MS C							4Q