

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								February 2003			
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0102419A - Joint Land Attack Cruise Missiles Defense (JLENS)				PROJECT E55			
COST (In Thousands)		FY 2002 Actual	FY 2003 Estimate	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	31114	28792	57549	56420	66764	76341	78491	117673	0	539125
<p><u>A. Mission Description and Budget Item Justification:</u> 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 and Missile Defense. JLENS is an Objective 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 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 C4ISR networks by providing correlated fire control and surveillance data. This system supports the objective transformation path of the Transformation Campaign Plan (TCP).</p>											
<u>Accomplishments/Planned Program</u>						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>		
Completed fire control radar hardware and software design, communication payload design, and processing station design.						20857	0	0	0		
Continue contract design and development of spiral program.						0	18100	47427	46007		
Continue work on lightweight x-band radar technology.						0	955	0	0		
Other contracts and OGA.						7247	6010	6700	6810		
Project Management						3010	3727	3422	3603		
Totals						31114	28792	57549	56420		

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BUDGET ACTIVITY

7 - Operational system development

PE NUMBER AND TITLE

**0102419A - Joint Land Attack Cruise Missiles
Defense (JLENS)**

PROJECT

E55

<u>B. Program Change Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	32130	29081	56520	57399
Current Budget (FY 2004/2005 PB)	31114	28792	57549	56420
Total Adjustments	-1016	-289	1029	-979
Congressional program reductions				
Congressional rescissions	-157	-330		
Congressional increases		1000		
Reprogrammings	7	-167		
SBIR/STTR Transfer	-866	-792		
Adjustments to Budget Years			1029	-979

FY03 Congressional increase for lightweight x-band radar

<u>C. Other Program Funding Summary</u>	FY 2002	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	0	28326	0	28326

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<p><u>D. Acquisition Strategy:</u> JLENS is designed to provide the joint war fighter with a Land Attack Cruise Missile Defense (LACMD) Over-the-Horizon (OTH) capability to engage cruise missiles masked to surface based sensors and contribute to the development of a Single Integrated Air Picture (SIAP). JLENS is a theater-based system employing advanced elevated sensors against Land Attack Cruise Missiles. JLENS was restructured to a three spiral development program from FY03-09. Spiral 1 - Government Off-the-Shelf (GOTS) Sensor System 32Meter, Spiral 2 - Advanced Sensor 32Meter (Precision Track Radar) and Spiral 3 - Advanced Sensor 71Meter (Precision Track Illumination Radar).</p>		

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
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	972		2234		2219		Continue	20240	Continue
e . Risk Mitigation, Design, Development	CR/CPIF	Raytheon System Co. MA/CA/FL	84895	19005		47427		46007		Continue	197334	Continue
f . SBIR / STTR			642	0		0		0		0	642	0
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	CPIF	CAS/AL	10024	2377		2837		2922		Continue	18160	Continue
j . Misc. Contracts	SS/CPFF	Multiple	5469	826		1221		1257		Continue	8773	Continue
k . ADaM			1800	0		0		0		0	1800	0
l . AoA/ORD/TEMP			2235	752		250		257		0	3494	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
m . Lightweight x-band radar antenna			1897	955		0		0		0	2852	0
n . In-House JLENS		PEO AMD, HSV, AL	16692	3727		3422		3603		0	27444	0
Subtotal:			149877	28614		57391		56265		Continue	292147	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		158		155		0	2941	0
b . Misc. OGA&Contracts	Mul/MPR	AL/TX/NM	1656	0		0		0		0	1656	0
Subtotal:			4106	178		158		155		0	4597	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:			156067	28792		57549		56420		Continue	298828	Continue

Schedule Profile Detail (R-4a Exhibit)							February 2003	
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<u>Schedule Detail</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>	<u>FY 2008</u>	<u>FY 2009</u>
ORD AROC		1Q						
ORD JROC		2Q						
MS B				2Q				
MS C								4Q