	ARMY RDT&E BUDGET IT	EM JUS	STIFIC	ATION	(R2 E	xhibit)		Fe	ebruary :	2005	
	ACTIVITY erational system development		(E NUMBER)102419 <i>I</i> Defense	A - Joint		ack Crui	se Missi	iles	PROJECT E55	
	COST In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
E55	JNT LAND ATK MSL DEF ELEVATED NETTED SENSOR-JLENS	56855	79316	106420	256893	471997	332428	0	0	Continuing	0

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 Project Office merged with the Short Range Air Defense (SHORAD) Project Office on January 11, 2—5, to become the JLENS Product Office within the Cruise Missile Defense Systems (CMDS) Project Office. On January 13, 2—5, the Program Executive Office for Air, Space and Missile Defense (PEO ASMD), which JLENS was assigned to merged with the Program Executive Office for Tactical Missiles (PEO TM) to become the Program Executive Office for Missiles and Space (PEO MS). JLENS is a Future Force theater level System of Systems element that meets the requirements of the Army Campaign Plan. JLENS uses advanced sensor and networking technologies to provide precision tracking and 36—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 provides correlated fire control and surveillance data from multiple sensors to various battle command nodes. JLENS is the key long range surveillance and integrated fire control sensor in the Army Missiles and Space System of Systems architecture.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Contract work is continuing to design and to develop the system and to mitigate risk.	41771	66189	70323	221846
Continue work on Lightweight X-Band Radar Micro Electro Mechanical MEMS) Antenna Technology.	1500	0	0	0
Other contracts and OGAs.	6569	7547	16467	14845
Project Management	7015	5580	6850	7500
Government Furnished Equipment	0	0	12780	12702
Totals	56855	79316	106420	256893

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY
7 - Operational system development

PE NUMBER AND TITLE
0102419A - Joint Land Attack Cruise Missiles

PROJECT **E55**

Defense (JLENS)

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget FY 2005)	81514	110561	260253
Current Budget FY 2006/2007 PB)	79316	106420	256893
Total Adjustments	-2198	-4141	-3360
Net of Program/Database Changes			
Congressional Program Reductions	-1463		
Congressional Rescissions			
Congressional Increases	1500		
Reprogrammings			
SBIR/STTR Transfer	-2235		
Adjustments to Budget Years		-4141	-3360

C. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	ToCompl	TotalCost
									-	
BZ0525 - JLENS	0	0	0	0	0	29153	549707	397776	0	976636
PE 643869. MEADS	236823	251414	0	0	0	0	0	0	0	488237
PE 643869M06, PATRIOT/MEADS CAP	0	0	288785	326352	454511	510672	510389	490441	0	2581150
PE 273801, PATRIOT PIP	45587	32082	16188	10607	10884	11119	12029	12520	0	151016
PE 654865, PAC-3	151318	61482	0	0	0	0	0	0	0	212800
PE C49100, PATRIOT	616942	487364	489700	494754	466004	471770	0	0	0	3026534
PE C50001, PATRIOT/MEADS CAP	0	0	0	0	88425	64338	423209	663557	0	1239529
PE 654802, SLAMRAAM	36103	63111	36102	29200	0	0	0	0	0	164516
PE C81001, SLAMRAAM Production	7397	2440	19315	21970	59273	13124	0	0	0	123519
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ARMY RDT&E BUDGET ITEM	JUSTIF	FICAT	ION (F	R2 Exh	ibit)		Feb	ruary 2	005	
BUDGET ACTIVITY 7 - Operational system development		0102	MBER AND 1419A - J Inse (JL	Joint La	nd Attac	k Cruise	Missile		PROJECT E55	
C. Other Program Funding Summary (continued)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	ToCompl	<u>TotalCost</u>
PE 654820, SENTINEL	0	5851	5080	2547	2647	0	0	0	0	16125
PE WK5057, SENTINEL Production	20646	7337	8393	15373	25074	31572	34473	32552	0	175420
PE 643327, Integrated Fire Control, AMD	40275	0	24961	42736	48894	50930	0	0	0	207796

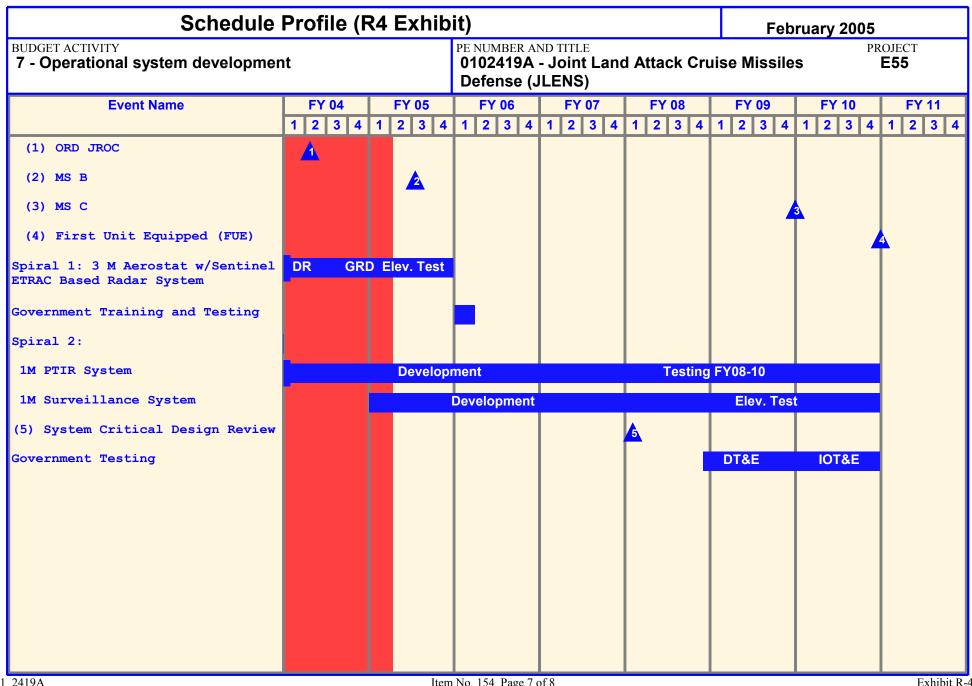
<u>C. Other Program Funding Summary:</u> This PE is an integral part of the Missiles and Space System of Systems (SOS) including Integrated Fire Control, JLENS, Patriot/MEADS Combined Aggregate Program (CAP), SLAMRAAM, JTAGS, SENTINEL, and on-going initiatives to achieve Single Integrated Air Picture (SIAP).

D. Acquisition Strategy: An initial cruise missile defense capability is being developed (Spiral 1) that consists of a 38-meter aerostat with a SENTINEL-based Enhanced Tracking Range and Classification (ETRAC) sensor system employing a 36 -degree fire control and surveillance capability that will be available by 4QFY 5. JLENS will design, develop, fabricate, integrate and test System Development and Demonstration (SDD) systems by 4QFY1. The JLENS system (Spiral 2) 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 operational capability as early as FY 8, should it be required. Developmental Test and Evaluation (DT&E) and Initial Operational Test and Evaluation (IOT&E) will be conducted in FY 9-FY1 culminating in a First Unit Equipped (FUE) by 4OFY1.

ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 7 - Operational system development 0102419A - Joint Land Attack Cruise Missiles E55 Defense (JLENS) I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & PYs Cost Cost Complete Cost Value of Location Cost Award Award Cost Award Contract Type Date Date Date a . Concept Definition **CPFF** H&R/MA & CA 2007 0 0 2007 0 b. Concept Definition ი 0 CPFF Lockheed 2000 2000 0 Martin/N.Y./OH/AL c . Concept Definition CPFF Northrop 1981 0 O n 0 1981 Grumman/MD d. OGAs **MIPR** 16083 2300 3149 7414 Continue 28946 Continue Multiple e . Risk Mitigation, CR/CPIF Raytheon System Co. 70323 509599 Continue 151241 66189 221846 Continue MA/CA/FI Design, Development f. GFE **MIPR** Multiple 0 12780 12702 26683 0 1201 g. CEC/SM-2 CEC **MIPR** Navy/Multiple 4219 0 0 4219 0 h . Design/Dev/Demo CPFF CAS/AL 14789 2261 2351 2445 21846 Continue Continue Support i. Misc. Contracts SS/CPFF 7730 2258 24241 Multiple 10167 4086 Continue Continue j. ADaM 1800 0 0 0 1800 0 k. ORD/AOA/TEMP/MS 4885 300 100 100 n 5385 0 **B** Preparation I. Lightweight x-band 4311 0 0 0 4311 0 radar antenna

	ARM	Y RDT&E CO	ST AN	ALYS	IS(R3)				Feb	ruary 20	05	
BUDGET ACTIVITY 7 - Operational sys	stem deve	lopment		01	iumber an 02419A - fense (JI	Joint La	nd Attac	k Cruise	e Missile	s	PROJEC E55	
I. Product Development continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost		FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete		Targe Value o Contrac
m . In-House JLENS	7.	PEO AMD, HSV, AL	27803	5580		6850		7500		0	47733	Value o
Subtotal:			240050	78888		105720		256093		Continue	680751	Continue
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
			2084	0		0		0		0	2084	(
a . Misc Support												

BUDGET ACTIVITY 7 - Operational sys			JI AN	PE N 01 (UMBER ANI)2419A -	Joint La	nd Attac	PROJECT				
II. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	Award	Complete	Total Cost	Targe Value o Contrac
a . Maintain Test Bed/Government Furnished Equipment	SS/CPFF	CAS-TX, NM	2927	1	0							
b . Misc. OGA&Contracts	Mul/MPR	AL/TX/NM	1656	0		0		0		0	1656	(
Subtotal:			4583	428		700		800		0	6511	(
	Contract Method & Type	Performing Activity & Location	Total PYs Cost	Cost	Award	Cost	Award	Cost	Award	Complete	Cost	Value o Contrac
V. Management Services Subtotal: Remarks: Not Applicable	Method &	Performing Activity & Location	PYs Cost	Cost	Award	Cost	Award	Cost	Award	Complete	Cost	Targe Value o Contrac



Schedule Detail (R4a Exhibit) February 2005									
BUDGET ACTIVITY 7 - Operational system development				nt Land	Attack (Cruise M	issiles	P.	ROJEСТ E55
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
ORD JROC	2Q								
MS B		3Q							
MS C						4Q			
First Unit Equipped FUE)							4Q		
Spiral 2 Critical Design Review					1Q				