

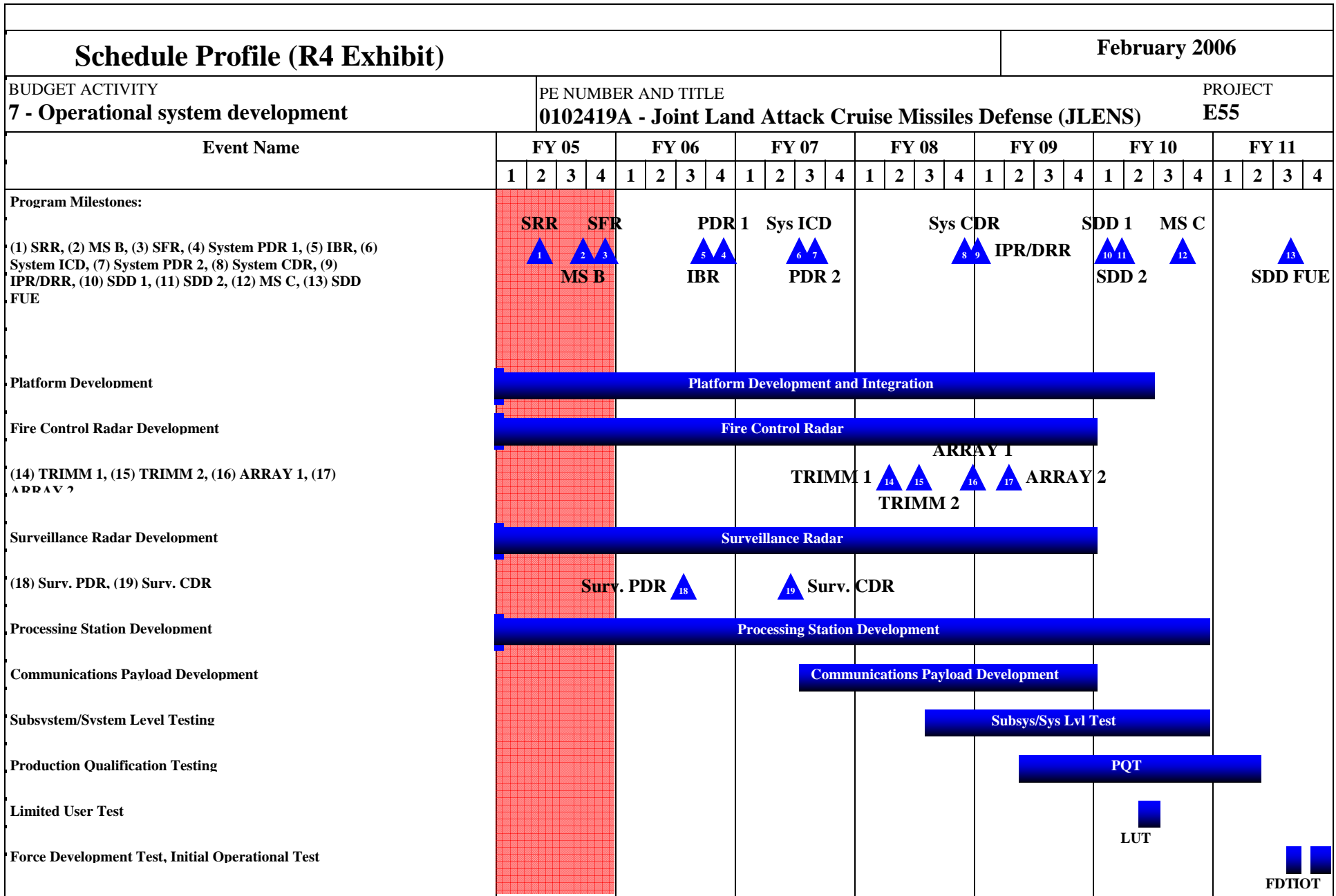
ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2006		
BUDGET ACTIVITY 7 - Operational system development			PE NUMBER AND TITLE 0102419A - Joint Land Attack Cruise Missiles Defense (JLENS)					PROJECT E55	
COST (In Thousands)	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 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	79279	105888	264491	465214	353856	335490	301143	Continuing	1996653
<p><u>A. Mission Description and Budget Item Justification:</u> The Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) program 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, 2005, to become the JLENS Product Office within the Cruise Missile Defense Systems (CMDS) Project Office, under the Program Executive Office for Missiles and Space (PEO MS). JLENS is a Future Force theater level System of Systems element that supports the Army Campaign Plan. JLENS uses advanced sensor and networking technologies to provide elevated persistent, precision tracking and 360-degree wide-area over-the-horizon surveillance of land attack cruise missiles. JLENS performs as a multi-role platform to enable extended range command and control linkages. An essential element of the Army transformation, JLENS correlates organic tracks/measurements with Identification Friend or Foe (IFF) and Precise Participant Location Identification (PPLI) data. The correlated data is then placed on the external networks. JLENS is the only elevated persistent long range surveillance, and integrated fire control sensor in the Joint Air and Missile Defense System of Systems architecture.</p>									
<u>Accomplishments/Planned Program</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
Contract work for Technology Development concludes in FY05. System Development and Demonstration begins in FY06.						64652	70323	224091	
Continue work on Lightweight X-Band Radar Micro Electro Mechanical (MEMS) Antenna Technology.						1500	1000	0	
Other contracts and OGAs.						7547	16467	18398	
Project Management						5580	5318	4551	
Government Furnished Equipment						0	12780	17451	
Total						79279	105888	264491	

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<u>B. Program Change Summary</u>		FY 2005	FY 2006	FY 2007						
Previous President's Budget (FY 2006)		79316	106420	256893						
Current BES/President's Budget (FY 2007)		79279	105888	264491						
Total Adjustments		-37	-532	7598						
Congressional Program Reductions			-464							
Congressional Rescissions			-1068							
Congressional Increases			1000							
Reprogrammings		-37								
SBIR/STTR Transfer										
Adjustments to Budget Years				7598						
Increased funding amount in FY07 represents Army's commitment to fund to the Cost Analysis Improvement Group (CAIG) cost position.										
<u>C. Other Program Funding Summary</u>		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
BZ0525, JLENS		0	0	0	0	0	30471	476728	0	507199
PE 0203801A, Patriot Product Improvement Program		32067	15957	10770	11051	11297	12227	12734	0	106103
PE 0603869A, MEADS		251298	0	0	0	0	0	0	0	251298
PE 0604865A, Patriot PAC-3		60408	0	0	0	0	0	0	0	60408
PE 0604869A, Patriot/MEADS Combined Aggregate Program (CAP)		0	284695	329583	459684	517049	592013	422005	0	2605029
SSN C49100, Patriot System		496990	483260	489067	472907	478795	0	0	0	2421019
SSN C50001, Patriot/MEADS CAP		0	0	0	89735	65296	429735	674386	0	1259152
PE 0604802A, SLAMRAAM		63084	35587	26961	10132	0	0	0	0	135764
SSN C81001, SLAMRAAM System		2438	19061	22039	59314	82656	82143	60979	0	328630
PE 0604820A, SENTINEL		5848	5008	2527	2622	0	0	0	0	16005
SSN WK5057, SENTINEL Mods		10566	8289	15125	20914	33394	33239	25314	0	146841
PE 0603327E88, Integrated Fire Control AMD		19984	24480	41746	47995	50096	0	0	0	184301
Comment: This PE is an integral part of the PEO, Missiles and Space Integrated Air and Missile Defense (IAMD) Program 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).										

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7 - Operational system development	0102419A - Joint Land Attack Cruise Missiles Defense (JLENS)	E55
<p><u>D. Acquisition Strategy</u> On 28 Jun 05, the DAB approved the JLENS Block 1, Spiral 2 program entry into System Development and Demonstration (SDD) as recommended by the Army Acquisition Executive. The DAB elected to maintain oversight of JLENS as an ACAT 1D program, as stated in the Acquisition Decision Memorandum signed by the Honorable Mr. Kreig on 5 Aug 05.</p> <p>A JLENS orbit consists of a Fire Control Radar and a Surveillance Radar, each with its own aerostat platform, mobile mooring station, mobile processing station, and associated ground support equipment. Development Test and Evaluation (DT&E) and Initial Operational Test and Evaluation (IOT&E) will be conducted in FY10-11 culminating in an SDD First Unit Equipped by 3QFY11.</p> <p>JLENS acquisition strategy calls for initial fielding to Block 1 requirements (tethered aerostat platforms for Fire Control and Surveillance radars); followed by fielding of Block 2 (untethered platforms for Fire Control and Surveillance radars); and Block 3 (both radars on a single untethered platform). There is currently no funding beyond Block 1. The Army plans to move to Block 2 fielding once it is assessed that technology has matured sufficiently to make development of Block 2 capability attainable.</p>		

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY				PE NUMBER AND TITLE						PROJECT		
7 - Operational system development				0102419A - Joint Land Attack Cruise Missiles Defense (JLENS)						E55		
I. Product Development	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	Target Value of Contract
Risk Mitigation, Design, Development and System Development and Demonstration	CR/CPIF	Raytheon Systems Co. (MA/CA/FL/TX)	151241	64652	3Q	70323	3Q	224091		Continue	0	Continue
GFE	MIPR	Multiple	1997	0	1-3Q	12780	1-3Q	17451	1-3Q	Continue	0	0
OGAs	MIPR	Multiple	16083	2300	1-3Q	3149	1-3Q	7276	1-3Q	Continue	0	Continue
Project Management		PEOMS, HSV, AL	27803	5580		5318		4551		Continue	0	0
Misc Contracts	SS/CPFF	Multiple	10185	2258	1-3Q	10167	1-3Q	6361	1-3Q	Continue	0	Continue
Design/Dev/Demo Support (SETA)	CPFF	CAS/AL	16208	2261	1-2Q	2351	1-2Q	4661	1-2Q	Continue	0	Continue
Lightweight X-Band Radar Antenna			5974	1500	2-3Q	1000	2-3Q	0		0	0	0
ORD/AOA/TEMP/MSB			6385	300	1-3Q	100	1-3Q	0		0	0	0
Subtotal:			235876	78851		105188		264391		Continue	0	Continue
II. Support Costs	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	Target Value of Contract
Misc Support			2084	0		0		0		Continue	0	Continue
Subtotal:			2084	0		0		0		Continue	0	Continue
III. 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	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Maintain Test Bed	SS/CPFF	CAS-TX, NM	2927	428		700		100		Continue	0	Continue
Subtotal:			2927	428		700		100		Continue	0	Continue

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IV. Management Services	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	Target Value of Contract
Subtotal:			0									
Remarks: Not Applicable												
Project Total Cost:			240887	79279		105888		264491		0	0	0



Schedule Detail (R4a Exhibit)						February 2006	
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<u>Schedule Detail</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
Milestone B	4Q						
Critical Design Review				4Q			
Milestone C						4Q	
First Unit Equipped							3Q
IOTE Start							4Q
IOTE Complete							4Q