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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE February 2000					
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0102419A Joint Land Attack Cruise Missile Defense (JLENS)				PROJECT DE55				
COST (In Thousands)				FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
DE55 Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS)				12638	24722	24996	29303	29267	29198	29124	Continuing	Continuing
<p>A. <u>Mission Description and 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 AAE with operational control assigned to the U. S. Army Space and Missile Defense Command. The program mission is to maximize the battlespace of land, sea and air based missile systems by providing Over-the-Horizon (OTH) surveillance and precision track for broad area defense against land attack cruise missiles. JLENS is a theater based system employing advanced technologies with specific focus on LACMD. JLENS sensors provide the OTH surveillance/precision tracking for the Air Directed Surface to Air Missile (ADSAM) concept. The role of the JLENS is to expand the battlefield commander's surveillance and engagement capability against cruise missiles and other targets by extending the battle space for systems such as Patriot, Medium Extended Air Defense System(MEADS), Aegis and Advanced Medium Range Air-to-Air Missile (AMRAAM). This project supports upgrades to surveillance and tracking systems.</p> <p>FY 1999 Accomplishments:</p> <ul style="list-style-type: none"> • 7500 Continued Contract Design and Demonstration Options with emphasis on prototype processing station. • 1844 Other Contracts & OGA. • 2056 JLENS In-House • 1238 Test Bed Maintenance and Roving Sands Exercise. <p>Total 12638</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 17123 Continue Contract Design and Development Activities. • 4289 Other Contracts & OGA. • 2381 JLENS In-House. • 287 Test Bed Maintenance • 642 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR) <p>Total 24722</p>												
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<p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 18429 Continue Contract Design and Development Activities. • 4186 Other Contracts & OGA. • 2381 JLENS In-House. <p>Total 24996</p>									
B. Program Change Summary				<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
Previous President's Budget (<u>FY 2000/2001 PB</u>)				14572	24903	25141			
Appropriated Value				15000	24903				
Adjustments to Appropriated Value									
a. Congressional General Reductions				-428					
b. SBIR / STTR				-1462					
c. Omnibus or Other Above Threshold Reduction					-98				
d. Below Threshold Reprogramming				-98					
e. Rescissions				-374	-83				
Adjustments to Budget Years Since <u>FY 2000/2001 PB</u>						-145			
Current Budget Submit (<u>FY 2001 PB</u>)				12638	24722	24996			
<p>C. Other Program Funding Summary: Not applicable</p>									
<p>D. Acquisition Strategy: The JLENS PO executed a successful Concept Studies Phase by soliciting Cruise Missile Defense (CMD) architecture concepts that employ elevated sensors. The JLENS PO through a formal selection process selected Hughes & Raytheon (H&R), a joint venture of Hughes Aircraft Company and the Raytheon Company (now Raytheon Systems Co.), as the prime contractor for the JLENS Demonstration Program. The JLENS program was required to restructure from a Design/Development/Demo/Test program to an upfront demonstration program and to reduce annual outlays and delay individual radars and final system design . The new strategy requires incremental increases in capabilities and demonstrations leveraged on proven technologies. The program was restructured in October 1999.</p>									
E. Schedule Profile			<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Risk Mitigation/Design				1-4Qtr	1-4Qtr				
Preliminary Design Review (PDR)				4Qtr					
Critical Design Review (CDR)					4Qtr				
Development/Test/Demo			1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr
Risk Mitigation/Test Bed			1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr	1-4Qtr
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ARMY RDT&E COST ANALYSIS (R-3)

DATE **February 2000**

BUDGET ACTIVITY
7 - Operational System Development

PE NUMBER AND TITLE
**0102419A Joint Land Attack Cruise Missile
Defense (JLENS)**

PROJECT
DE55

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Concept Definition	CPFF	H&R/MA & CA	2007							0	2007	2007
b. Concept Definition	CPFF	Lockheed Martin / N.Y./OH/AL	2000							0	2000	2000
c. Concept Definition	CPFF	Northrop Grumman/MD	1981							0	1981	1981
d. OGAs	MIPR	Multiple	12053	292		1297		1297		0	14939	
e. Risk Mitigation, Design, Development	CR/CPIF/CPAF	Raytheon System Co. MA / CA/ FL	29796	7500		17123		18429		CONT	72848	145604
f. SBIR / STTR						642				CONT	642	
g. GFE			1201							CONT	1201	
h. CEC/ SM-2 CEC	MIPR	Navy / Multiple	4219							CONT	4219	
i. Design/Dev/Demo Support	MIPR	CAS / AL	4446	1053		1528		1528		CONT	8555	
j. Misc. Contracts	SS / CPFF	Multiple	1954	206		1126		1023		CONT	4309	
Subtotal Product Development:			59657	9051		21716		22277			112701	

II. Support Costs & Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Misc Support			2084							0	2084	
b. In-House, JLENS			8343	2056		2381		2381		CONT	15161	
c. OGA Salaries			228	293		338		338		CONT	1197	
Subtotal Support Costs:			10655	2349		2719		2719			18442	

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ARMY RDT&E COST ANALYSIS (R-3)	DATE February 2000
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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Maintain Test Bed	SS/CPFF	CAS-TX, NM	2137	60		287				CONT	2484	
b. Misc. OGA&Contracts	Mul/MPR	AL/TX/NM	1656	1178						CONT	2834	
Subtotal Test and Evaluation:			3793	1238		287					5318	

Remark:

Project Total Cost:			74105	12638		24722		24996			136461	
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