

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							February 2003			
BUDGET ACTIVITY 7 - Operational system development					PE NUMBER AND TITLE 0305114A - Traffic Control, Approach and Landing System-FY 19				PROJECT 711	
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
711 JPALS	753	935	956	1903	1953	1935	15864	29874	0	54810
<p><u>A. Mission Description and Budget Item Justification:</u> The Joint Precision Approach and Landing System (JPALS) is a precision approach and landing system providing joint operational capability for U.S. forces assigned to conventional and special operations missions including those operating from fixed base, ship, tactical, and austere environments. This effort evaluates alternative approaches for incorporating JPALS into Army aircraft while considering aircraft environment, electrical power, system space, weight, antenna placement, and electromagnetic compatibility without nullifying low observable capability requirements. Project in this Program Element supports research efforts in the Architecture and Requirements Definition phase of the modified acquisition life cycle approved by the Defense Acquisition Executive in September of 1998. JPALS supports the Legacy-to-Objective transition path of the Transformation Campaign Plan.</p>										
<u>Accomplishments/Planned Program</u>						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Continue to provide system engineering, logistics, programmatic, and technical documentation for JPALS development effort and execute joint Army/Navy/Air Force effort to develop a JPALS capable Embedded GPS Inertial (EGI) receiver.						715	888	908	1808	
Continue Program Management Support						38	47	48	95	
Totals						753	935	956	1903	

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<u>B. Program Change Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	777	977	972	1936
Current Budget (FY 2004/2005 PB)	753	935	956	1903
Total Adjustments	-24	-42	-16	-33
Congressional program reductions				
Congressional rescissions	-4	-10		
Congressional increases				
Reprogrammings	1	-5		
SBIR/STTR Transfer	-21	-27		
Adjustments to Budget Years			-16	-33

C. Other Program Funding Summary: JPALS is a joint program with the Air Force acting as lead service. The Army will procure local differential GPS (LDGPS) JPALS tactical and fixed base ground stations through an Air Force contract and Shipboard Relative GPS (SRGPS) through the Navy if SRGPS becomes an Army requirement.

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<p><u>D. Acquisition Strategy:</u> The acquisition strategy is to complete current risk reduction efforts and establish technical architecture and operating concept for LDGPS and legacy systems. Synchronize JPALS development and fielding with GPS Modernization timeline and M-Code development to take advantage of aircraft modification windows of opportunity. Integrate JPALS capability in the EGI (Embedded GPS Inertial Navigation System) and DGNS (Doppler GPS Navigation System) avionics and Force Modernization Fleet of helicopters.</p>		

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
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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
			0	0		0		0		0	0	0
Subtotal:												
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 . Continue system engineering, logistics and technical support	MIPR	Various	3148	888	1-4Q	908	1-4Q	1808	1-4Q	Continue	6752	0
Subtotal:			3148	888		908		1808		Continue	6752	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
			0	0		0		0		0	0	0
Subtotal:												
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
a . PM Support	MIPR	AMCOM, AL	172	47	1-4Q	48	1-4Q	95	1-4Q	Continue	362	0
Subtotal:			172	47		48		95		Continue	362	0
Project Total Cost:			3320	935		956		1903		Continue	7114	0

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>
PM Support			1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Continue system engineering, logistics and technical support			1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q