

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2004

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 2003 Actual	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	934	945	0	0	0	0	0	0	3269

A. Mission Description and Budget Item Justification: 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 technical 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; also procures fixed base and tactical Local Differential Global Positioning System (LDGPS) ground stations. 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 Current-to-Future transition path of the Transformation Campaign Plan (TCP).

Beginning in FY05 this PE have been combined with PE 0604201A - Aircraft Avionics.

<u>Accomplishments/Planned Program</u>	FY 2003	FY 2004	FY 2005
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.	887	874	0
Continue Program Management Support	47	43	0
Small Business Innovative Research/Small Business Technology Transfer Programs	0	28	0
Totals	934	945	0

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<u>B. Program Change Summary</u>	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	935	956	1903
Current Budget (FY 2005 PB)	934	945	0
Total Adjustments	-1	-11	-1903
Congressional program reductions		-9	
Congressional rescissions	-10		
Congressional increases			
Reprogrammings	36	-2	
SBIR/STTR Transfer	-27		
Adjustments to Budget Years			-1903

FY 2005: Funding combined with PE 0604201A - Aircraft Avionics

<u>C. Other Program Funding Summary</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
Airborne Avionics, SSN: AA0700	90876	74052	49091	59381	124493	145269	136268	Continue	Continue
Aircraft Avionics, 64201 C97	35971	47155	68857	59571	38651	54234	55684	Continue	Continue

C. Other Program Funding Summary: JPALS is a joint program with the Air Force as the 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.

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BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305114A - Traffic Control, Approach and Landing System-FY 19	PROJECT 711
<p><u>D. Acquisition Strategy:</u> The JPALS acquisition strategy is to complete the current risk reduction and Technology Development (TD) Phase followed by the development of a JPALS LDGPS specification. Using this specification, a JPALS prototype LDGPS ground station will be tested in both benign and jamming environments prior to MS B in Dec 2004. JPALS functionality will be integrated on a GPS card which will be inserted into the Army's existing avionics. JPALS integration will be synchronized with the integration of M Code into Army platforms in the FY 2010 timeframe.</p>		