

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2002

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 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
711 JPALS	637	777	977	972	1936	1992	0	154789	162080

A. Mission Description and Budget Item Justification: The Joint Precision Approach 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.

FY 2001 Accomplishments:

- 637 Provided system engineering, logistics and technical documentation for JPALS Development effort in preparation for JPALS systems currently under development by the Air Force and the Navy for use in Army aircraft and air traffic control facilities.

Total 637

FY 2002 Planned Program

- 777 Continue to provide system engineering, logistics and technical documentation for JPALS development effort and execute joint Army/Navy effort to develop a JPALS capable Embedded GPS Inertial (EGI) receiver.

Total 777

FY 2003 Planned Program

- 977 Continue to provide system engineering, logistics and technical documentation for JPALS development effort and execute joint Army/Navy effort to develop a JPALS capable Embedded GPS Inertial (EGI) receiver.

Total 977

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<u>B. Program Change Summary</u>	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2002 PB)	775	785	979
Appropriated Value	783	785	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	-8	0
b. SBIR / STTR	-23	0	0
c. Omnibus or Other Above Threshold Reductions	0	0	0
d. Below Threshold Reprogramming	-116	0	0
e. Rescissions	-7	0	0
Adjustments to Budget Years Since FY2002 PB	0	0	-2
Current Budget Submit (FY 2003 PB)	637	777	977

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.

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D. Acquisition Strategy: 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 and DGNS avionics and Force Modernization Fleet of helicopters.

<u>E. Schedule Profile</u>	<u>FY 2001</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>
Supports JPALS efforts							