

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)								February 2006		
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604865A - Patriot PAC-3 Theater Missile Defense Acq - EMD					PROJECT 01C		
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
01C	PATRIOT ADVANCED CAPABILITY (PAC) - 3	60408	0	0	0	0	0	0	0	211726
<p><u>A. Mission Description and Budget Item Justification:</u> Patriot is a mobile, Unit of Employment air defense system which uses guided missiles to simultaneously engage and destroy multiple target types at varying ranges. The Patriot Advanced Capability 3 (PAC-3) Upgrade Program is the last evolution of the phased materiel change improvement program to Patriot. The materiel changes will provide improved performance across the spectrum for system and threat intercept performance. In addition to modernization of the ground support equipment, funding resources the PAC-3 and Missile Segment Enhancement (MSE) missile design providing a high velocity, hit to kill, surface to air missile with the range, accuracy, and lethality necessary to effectively intercept and destroy tactical missiles with Nuclear Biological Chemical/High Explosive (NBC/HE) warheads and air breathing threats. The full capability will provide defense against short to medium range theater ballistic missiles (TBMs), cruise missiles (CMs), and unmanned aerial vehicles (UAVs) as part of the Ballistic Missile Defense (BMD) systems, a multi-layered Theater Air and Missile Defense Architecture. In support of achieving full air and missile defense capability, this PE funds the improvement of connectivity and situational awareness within the Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) through interaction and cooperation with the Air Defense Command and Control System to enable functionality with MEADS and other air defense systems. This PE is an integral part of the Program Executive Office (PEO) Missile and Space (MS) Integrated Air and Missile Defense (IAMD) Program.</p> <p>Note: The FY06/07 budget combines the PAC-3/MEADS program based on a Milestone B decision 1 July 2004. The Army revised the MEADS acquisition strategy to combine management, development, and fielding of both the MEADS and Patriot systems. The Patriot/MEADS Combined Aggregate Program (CAP) will provide for the evolution of the Patriot/PAC-3 system to the MEADS objective system through the early incremental introduction of selected MEADS Major End Items. This approach provides for earlier fielding of enhanced air and missile defense capabilities across the currently fielded force to counter the evolving threat and leverage the knowledge gained in the development and fielding of the Patriot System into the MEADS program. The PAC-3 missile is the baseline missile for the MEADS system. The MSE missile, which provides for greater ranges, will be the objective missile for the system. PAC-3 RDTE funding has been combined with MEADS RDTE funding under PE 0604869A for FY 06 and beyond.</p>										
<u>Accomplishments/Planned Program</u>							<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
Follow-on Block test program.							12533	0	0	
Evolutionary Development.							21900	0	0	
Missile System Enhancement (MSE) Development							25975	0	0	
Total							60408	0	0	

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<u>B. Program Change Summary</u>		FY 2005	FY 2006	FY 2007					
Previous President's Budget (FY 2006)		61482	0	0					
Current BES/President's Budget (FY 2007)		60408	0	0					
Total Adjustments		-1074	0	0					
Congressional Program Reductions									
Congressional Rescissions									
Congressional Increases									
Reprogrammings		-1074							
SBIR/STTR Transfer									
Adjustments to Budget Years									
FY06/07 funds transferred to the Patriot/MEADS Combined Aggregate Program (CAP), PE 0604869A.									
<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
0603869, Project 01B MEADS	251298	0	0	0	0	0	0	0	251298
0604869, Project M06 Patriot/MEADS Combined Aggregate Program (CAP)	0	284695	329583	459684	517049	592013	422005	0	2605029
0203801, Project 036 Patriot Product Improvement	32067	15957	10770	11051	11297	12227	12734	CONT	CONT
MSLS PROC C49100, Patriot System	496990	483260	489067	472907	478795	0	0	0	2421019
MSLS PROC C50001, Patriot/MEADS CAP	0	0	0	89735	65296	429735	674386	CONT	CONT
0102419, Project E55 JLENS	79279	105888	264491	465214	353856	335490	301143	0	1905361
OPA BZ0525, JLENS Production	0	0	0	0	0	30471	476728	0	507199
0604802, Project S23 SLAMRAAM	63084	35587	26961	10132	0	0	0	0	135764
MSLS PROC C81001, SLAMRAAM	2438	19061	22039	59314	82656	82143	60979	0	328630
0604820, Project SENTINEL	5848	5008	2527	2622	0	0	0	0	16005
OPA WK5057, SENTINEL Production	10566	8289	15125	20914	33394	33239	25314	0	146841
0603327, Project S23, 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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<p><u>D. Acquisition Strategy</u> The design objective of the Patriot system is to provide an element of an integrated Ballistic Missile Defense system capable of being modified to cope with the evolving threat. This strategy minimizes technological risks and provides a means of enhancing system capability through planned upgrades of deployed systems. The Patriot program consists of two interrelated acquisition programs - the Patriot PAC-3 Growth Program and the PAC-3 Missile Program. Growth Program modifications are grouped into configurations which are fielded in the same time frame as they technically mature to address emerging threats. However, incremental increases in performance are determined for each configuration in order to provide benchmarks for configuration testing and for the development of user doctrine and tactics. This incremental approach to fielding will continue through the CAP as Patriot is evolved to MEADS. The PAC-3 Missile Program focuses on developing, fabricating and testing the high velocity, hit to kill, surface to air missile and associated ground support equipment to provide essential increases in battle space, accuracy, lethality and firepower to counter and destroy evolving air defense threats. The missile performance is demonstrated through a series of flight tests and modeling and simulation activities. PAC-3 Block Evolutionary development efforts will further improve system interoperability, commonality, and capabilities against emerging and reactive threats. The Army has revised the MEADS acquisition strategy to combine management, development, and fielding of both the MEADS and Patriot systems. The Patriot/MEADS combined aggregate program will provide for the evolution of the Patriot/PAC-3 system to the MEADS objective system through the early introduction of the MEADS Major End Items (MEI). This approach provides for earlier fielding of enhanced air and missile defense capabilities across the currently fielded force to counter the evolving threat and allow for the knowledge that was gained in the development and fielding of the Patriot System to be fused into the MEADS program. The PAC-3 missile is the baseline missile for the MEADS system. The Missile Segment Enhancement (MSE) missile, which provides for greater ranges, will be the objective missile for the system.</p>		