

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604865A - Patriot PAC-3 Theater Missile Defense Acquisition				PROJECT 01C		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
01C PATRIOT ADVANCED CAPABILITY (PAC) - 3	0	0	107100	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u></p> <p><u>PLEASE NOTE:</u> This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.</p> <p>PATRIOT is a long range, mobile, field Army and Corps air defense system, using guided missiles to simultaneously engage and destroy multiple target types at varying ranges. The PATRIOT Advanced Capability 3 (PAC-3) Upgrade Program is the latest 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 a new 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 (TBM's), cruise missiles (CM's), unmanned aerial vehicles (UAVs) and other air breathing threats as part of the Theater Missile Defense (TMD) family of systems, a multi-layered Theater Air and Missile Defense Architecture. PATRIOT is pursuing integration of PATRIOT Battle Management Command, Control, Communications and Intelligence (BMC3I) with the Project Manager, Air Defense Command and Control Systems to take advantage of previous U.S. Army developments that can be incorporated into the PATRIOT program. As a preliminary result of the strategy review, this program transferred from BMDO to Army starting in FY02.</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> • 42787 Complete PAC-3 missile Engineering and Manufacturing Development (EMD) program. • 11000 Initiate follow-on test program with Lockheed Martin Missiles & Fire Control (LMMFC)-Dallas and Raytheon. • 31923 Continue Operational Test & Evaluation. • 6390 Continue PAC-3 Target and Test Support • 15000 Evolutionary Development <p>Total 107100</p> <p style="margin-top: 20px;">*FY00/01 funding is included in the Ballistic Missile Defense Organization (BMDO) budget</p>										

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY 2001 PB)	0	0	0	0
Congressional Adjustments	0	0	0	0
Appropriated Value	0	0	0	0
a. Congressional Reductions (FFRDC, Inflation, etc.)	0	0	0	0
b. OSD Reductions	0	0	0	0
c. Congressional Reprogramming	0	0	0	0
d. Emergency Supplemental	0	0	0	0
e. Below Threshold Reprogramming	0	0	0	0
Adjustments to Budget Years Since FY 2001 PB	0	0	107100	0
Current Budget Submit (FY 2002/2003 PB)	0	0	107100	0

Funding:

FY 2002 (+107100): Program transferred from the Ballistic Missile Defense Organization starting in FY02. Funds will support completion of the EMD program, start the follow on test program, and initiate evolutionary development.

<u>C. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
PAC-3, SSN C49200	0	0	676574	0	0	0	0	0	0	0

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D. Acquisition Strategy: The design objective of the PATRIOT system is to provide a 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 scheduled to be fielded in the same time frame. Configuration groupings are a convenience for managing block changes and are not a performance related grouping. 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. 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. A PAC-3 Follow-on Test Program will supplement EMD by demonstrating system and missile improvements and capabilities not verified during EMD flight tests. Evolutionary development efforts will further improve system capabilities against emerging and reactive threats.

<u>E. Schedule Profile</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>	<u>FY 2006</u>	<u>FY 2007</u>
Configuration 3 Initial Operational Test & Evaluation (IOT&E)			1-4Q	0	0	0	0	0
PAC-3 FUE		4Q		0	0	0	0	0
Milestone III			4Q	0	0	0	0	0
IOC				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PAC-3 Missile EMD	SS-CPIF	LMMFC, TX	0	0		12000	1-4Q	0	0	0	0	0
b . PAC-3 Missile Integration	SS-CPIF	Raytheon, MA	0	0		6000	1-4Q	0	0	0	0	0
c . RDEC	MIPR	MRDEC, AL	0	0		1490	1Q	0	0	0	0	0
d . PAC-3 Missile FOT	SS-CPIF	LMMFC, TX	0	0		6000	1Q	0	0	0	0	0
e . RSC Integration	SS-CPIF	Raytheon, MA	0	0		5000	1Q	0	0	0	0	0
f . PAC-3 Evolutionary Development			0	0		15000	1-4Q	0	0	0	0	0
Subtotal:			0	0		45490		0		0	0	0

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . SETA	C-CPAF	CAS, AL	0	0		4690	1Q	0	0	0	0	0
b . OGA/In-House	PO		0	0		10407	1Q	0	0	0	0	0
c . Engineering Support	SS-CPIF	Raytheon, MA	0	0		2300	1-4Q	0	0	0	0	0
Subtotal:			0	0		17397		0		0	0	0
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . White Sands Missile Range	MIPR	WSMR, NM	0	0		5900	1Q	0	0	0	0	0
b . Operational Test Support	MIPR		0	0		31923	1Q	0	0	0	0	0
c . Targets	MIPR	SMDC, AL	0	0		6390	1Q	0	0	0	0	0
Subtotal:			0	0		44213		0		0	0	0

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Project Total Cost:			0	0		107100		0		0	0	0