

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

June 2001

BUDGET ACTIVITY
5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE
0604854A - ARTILLERY SYSTEMS - EMD

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
Total Program Element (PE) Cost	4662	19920	62481	0	0	0	0	0	0	0
2KT CRUSADER OPERATIONAL TEST	0	225	199	0	0	0	0	0	0	0
503 CRUSADER-ED	0	0	39449	0	0	0	0	0	0	0
509 LIGHTWEIGHT 155M HOWITZER	4662	17224	18199	0	0	0	0	0	0	0
516 PALADIN/FAASV	0	2471	4634	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: 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.

This program element supports the Joint Light Weight (LW) 155mm Howitzer Engineering and Manufacturing Development program, the Crusader Engineering and Manufacturing Development program, the Crusader Operational Test program, the Paladin/FAASV Improvement program. These systems supports the Legacy transition path of the Transformation Campaign Plan (TCP).

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	4782	20105	54832	0
Appropriated Value	4800	20105	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-120	0	0	
c. Omnibus or Other Above Threshold Reductions	-18	0	0	
d. Below Threshold Reprogramming	0	0	0	
e. Rescissions	0	-185	0	
Adjustments to Budget Years Since FY2001 PB	0	0	7649	
New Army Transformation Adjustment	0	0	0	
Current Budget Submit (FY 2002/2003 PB)	4662	19920	62481	0

Change Summary Explanation:

Project D509 received additional funding in FY 2002(\$7.6 million) to support additional Towed Artillery Digitization(TAD) integration efforts and to refurbish LW155 EMD howitzers for TAD testing.

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604854A - ARTILLERY SYSTEMS - EMD				PROJECT 503		
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
503 CRUSADER-ED	0	0	39449	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This project finances the Engineering & Manufacturing Development (EMD) efforts for the Crusader Program. The Crusader system is the Army's next generation self-propelled howitzer (SPH) and artillery resupply vehicles (RSVs) designed to support Army XXI, Joint Vision 2010 and is an integral component of the Army Transformation. Crusader will have significantly increased capabilities in the areas of lethality, mobility, survivability, resupply, command and control, and sustainability to capitalizing on emerging, advanced technologies. The SPH will also achieve increased lethality levels through independent operations. The RSVs will have significantly increased capabilities in the areas of resupply, mobility and survivability and will provide a single source of ammunition, fuel, propellant and other supplies for the SPH. In consonance with the Army Transformation, the Crusader development has been restructured to improve transportability and relevance to the Army's Transformation and objective force. The focus of the revised Crusader program is to increase all modes of deployability while retaining all of its Key Performance Parameters. The revised Crusader system reduces weight and volume and employs a change in resupply vehicle philosophy (an equal mix of tracked(RSV-T) and wheeled(RSV-W) resupply vehicles). The restructured program leverages the successful development to date and continues development activities that support the revised Crusader concept and significant weight reduction initiatives. Major subsystems and technologies remain largely unchanged, but will be repackaged. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

Project not funded.

FY 2001 Planned Program

Project not funded.

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FY 2002 Planned Program

- 39449 Product Development: Order EMD Long Lead Items
- Total 39449

<u>B. 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
RDTE, BA5, Army, PE 0603854, D505	262152	352051	447949	0	0	0	0	0	0	0
Procurement, WTCV, Army, G83500	0	0	0	0	0	0	0	0	0	0
Procurement, WTCV, Army, G83600	0	0	0	0	0	0	0	0	0	0
RDTE, BA5, Army, PE 0604854, D2KT	0	225	199	0	0	0	0	0	0	0
Procurement, Ammo, Army, ER8021	42601	39565	87413	0	0	0	0	0	0	0
RDTE, BA5, Army, PE 0604645, D175	2800	2180	0	0	0	0	0	0	0	0
Procurement, Ammo, Army, ER8017	13951	45215	37548	0	0	0	0	0	0	0
Procurement, OPA, Army, D16500*	0	0	0	0	0	0	0	0	0	0

*Funding summary represents a portion of the overall funding in D16500, Other Procurement, Army.

C. Acquisition Strategy: There will be a seamless transition from PDRR to EMD that eliminates inefficiencies in ramping down/up during the milestone decision. In accordance with the Transformation Plan dated December 1999, Crusader went through a redefinition effort for reduced weight and increased transportability. A revised program schedule and budget was developed to support this effort. Additionally, in June 2000, a revision to the Crusader Acquisition Strategy was signed to support this path forward. The FY01 President's Budget reflected this change. Due to this restructure of both cost and schedule, an adjustment to the Acquisition Program Baseline (APB) was required. On 18 December 2000, the Office of the Secretary of Defense approved Crusader's revised APB. The strategy for development of the lightweight Crusader is to build on the successful development to date on major subsystems; e.g. continue development and testing of the XM297 cannon, exercise the resupply subsystem and software in the Systems Integration Facility (SIF), and continue electronics and software development. The strategy is to continue these efforts without a break, develop weight reduction technologies and initiatives, and re-design the system with the current contractor team.

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<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Order EMD Long Lead Items (LLI)			3rd Qtr	0	0	0	0	0
Initiate Manufacturing of EMD Prototypes				0	0	0	0	0
Initiate BH&T Testing				0	0	0	0	0
Initiate Deliveries of EMD Prototypes				0	0	0	0	0
Initiate PPQT Testing				0	0	0	0	0
Order LRIP LLI				0	0	0	0	0
LRIP IPR				0	0	0	0	0
FDTE				0	0	0	0	0
Delivery of LRIP Prototypes				0	0	0	0	0

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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 . Systems Contractor	SS/CPIF	UDLP, Minneapolis, MN	0	0		37537	1Q	0	0	0	0	0
b . Systems Development Engineering	PO	ARDEC, Picatinny Arsenal, NJ	0	0		0		0	0	0	0	0
c . Systems Development Engineering	PO	TACOM, Warren, MI	0	0		0		0	0	0	0	0
d . Systems Development Engineering	PO	ARL, Adelphi, MD	0	0		0		0	0	0	0	0
e . Systems Development Engineering	PO	Various OGAs	0	0		0		0	0	0	0	0
f . Systems Development Engineering	Various	Various Contracts	0	0		1912	1-2Q	0	0	0	0	0
Subtotal:			0	0		39449		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 . Development Support	PO	PM Crusader, Picatinny Arsenal, NJ	0	0		0		0	0	0	0	0
b . Development Support	PO	ARDEC, Picatinny Arsenal, NJ	0	0		0		0	0	0	0	0
c . Integrated Logistics Support	PO	RIA, Rock Island, IL	0	0		0		0	0	0	0	0
d . Development Support	PO	TACOM, Warren, MI	0	0		0		0	0	0	0	0
e . Development Support	PO	ARL, Adelphi, MD	0	0		0		0	0	0	0	0
f . Development Support	PO	Various OGAs	0	0		0		0	0	0	0	0
g . Development Support	Various	Various Contracts	0	0		0		0	0	0	0	0
Subtotal:			0	0		0		0		0	0	0

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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 . Development Test and Evaluation	PO	TECOM (YPG, AZ; APG, MD)	0	0		0		0	0	0	0	0
b . Ammunition and Propellant	PO	Various sources	0	0		0		0	0	0	0	0
Subtotal:			0	0		0		0		0	0	0

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
a . Project Management Support	SS/FP	Vector Research, Inc., MI	0	0		0		0	0	0	0	0
b . Project Management Support	SS/FP	System Research & Integration, Inc., VA	0	0		0		0	0	0	0	0
c . Project Management Support	SS/FP	Genisys, TX	0	0		0		0	0	0	0	0
d . Project Management Support	SS/FP	Camber, Inc., NJ	0	0		0		0	0	0	0	0

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IV. Management Services (continued)	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
e . Project Management Support	SS/FP	SAIC, VA	0	0		0		0	0	0	0	0
f . Systems Engineering Support	SS/FP	Camber, Inc, NJ	0	0		0		0	0	0	0	0
g . Systems Engineering Support	SS/FP	PRC, VA	0	0		0		0	0	0	0	0
h . Systems Engineeering Support	SS/FP	LMI, VA	0	0		0		0	0	0	0	0
i . Systems Engineering Support	SS/FP	TBD	0	0		0		0	0	0	0	0
j . Software Development Support	SS/FP	Mitre Corporation, VA	0	0		0		0	0	0	0	0
k . Software Development Support	SS/FP	SAIC, VA	0	0		0		0	0	0	0	0
l . Software Development Support	SS/FP	High Performance Technology Inc, HPTI, VA	0	0		0		0	0	0	0	0
m . Software Development Support	SS/FP	Averstar Inc, OK	0	0		0		0	0	0	0	0

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IV. Management Services (continued)	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
Subtotal:			0	0		0		0		0	0	0
Project Total Cost:			0	0		39449		0		0	0	0

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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
509 LIGHTWEIGHT 155M HOWITZER	4662	17224	18199	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: The Lightweight 155mm (LW155) Towed Howitzer, a joint program with the Marine Corps, will provide the replacement for the M198, 155mm Towed Howitzer. It will provide significant strategic and tactical mobility improvements. Project D509 supports Towed Artillery Digitization (TAD) Engineering and Manufacturing Development. TAD is a digital fire control system for the XM777 Towed Howitzer, with potential applications to other weapon platforms. TAD will increase the accuracy, survivability, and lethality of Army and USMC 155mm Towed Artillery. This system supports the Legacy transition paths of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

- 1328 Generated the TAD Acquisition Strategy/Plan and Acquisition Program Baseline Agreement. Oversaw preparation of the performance specification, Statement of Work, Request for Proposals, and conducted Source Selection. Prepared for and conducted Milestone I/II Review and awarded the TAD EMD contract.
 - 428 Program management support.
 - 2906 Awarded TAD EMD contract.
- Total 4662

FY 2001 Planned Program

- 4004 Program management and engineering support for various Integrated Product Teams (IPTs), System Requirements Review, System Design Review, Allocated Baseline Review, System Software Review, Preliminary Design Review, Integrated Baseline Review, and interface with contractor engineers. Other tasks include work on the Test and Evaluation Master Plan, Software Development Plan, and other program documents. A Tri-Service Assessment will also be conducted.
- 953 Program management support for the identification of system requirements, software development, business management (earned value), and other technical and administrative tasks.

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509**FY 2001 Planned Program (Continued)**

- 7674 Continue conducting IPTs, and participate in the previously mentioned reviews with their government counterparts. Develop the TAD System hardware and software baselines. Begin development of the TAD System. Includes Award Fee provisions.
- 2450 Fabricate seven sets of TAD developmental test articles for component and system level technical testing. Initiate integration of TAD components onto the XM777 howitzer.
- 1645 Long lead cannon assembly preforms and cannon assembly manufacturing to be used in integration and technical testing of TAD components. Also provides funding for the manufacture of a pilot production howitzer, which will be used in technical and operational testing.
- 498 Small Business Innovation Research/Small Business Technology Transfer.

Total 17224

FY 2002 Planned Program

- 4461 Program management and engineering support for IPTs; system reviews including Detailed Design Review; operational test planning; and other EMD tasks. Provide program management/technical support contracts for software management/development, and business and office administration.
- 10638 Continue software development and component/system level technical testing and the integration of TAD onto the XM777 howitzer.
- 2100 Fabricate six sets of TAD test articles for operational testing in FY03.
- 1000 Conduct TAD hardware and software technical testing on the XM777 howitzer.

Total 18199

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<u>B. 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
RDTE, Navy LW155 Towed How 060363M	26345	13027	18600	0	0	0	0	0	0	0
Procurement, Marine Corps LW155 Towed Howitzer with TAD Prod, Bli 218500	0	11028	0	0	0	0	0	0	0	0
Procurement, WTCV, Army, LW155 with TAD G01700	0	0	1107	0	0	0	0	0	0	0

C. Acquisition Strategy: The overall TAD Acquisition Strategy/Plan parallels the USMC EMD and Production Phases for their LW155 howitzers. The principal strategy for the Army-funded TAD EMD, is to execute a CPIF contract with the prime contractor to develop the TAD System for testing and evaluation prior to Army LW155 production. The Marine Corps will retrofit their fielded LW155 howitzers with TAD. USMC howitzers still in production will be outfitted with the TAD System prior to fielding.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Towed Artillery Digitization (TAD) Milestone I/II	1Q			0	0	0	0	0
TAD Contract Award	4Q			0	0	0	0	0
TAD Developmental Testing Begins		4Q		0	0	0	0	0
TAD Developmental Testing Ends			4Q	0	0	0	0	0
TAD Multi-service Operational Test				0	0	0	0	0
TAD Milestone III				0	0	0	0	0

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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 . TAD System EMD Contract	CPIF with Award Fee	General Dynamics Armament Systems, Burlington, VT	2906	7674	1Q	10638	1Q	0	0	0	0	0
b . Government Program Management and Engineering Staff	MIPR	ARDEC, Picatinny Arsenal, NJ	2127	4004	1-4Q	4461	1-4Q	0	0	0	0	0
Subtotal:			5033	11678		15099		0		0	0	0

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 . Program Management	Allotment	JPMO LW155, Picatinny Arsenal, NJ	592	953	1-2Q	0		0	0	0	0	0
Subtotal:			592	953		0		0		0	0	0

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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 . Multi-service Operational Test	MIPR	Yuma Proving Grounds, AZ	0	0		0		0	0	0	0	0
b . TAD Test Articles	CPIF	General Dynamics Armament Systems, Burlington, VT	0	2450	1Q	2100	1Q	0	0	0	0	0
c . XM777 Test Article	Cost Type	VSEL Projects Limited, Barrow-in-Furness, UK	0	1645	2-3Q	0		0	0	0	0	0
d . TAD / XM777 Integration and Software Technical Testing	MIPR	ARDEC, Picatinny Arsenal, NJ	0	0		1000	1-2Q	0	0	0	0	0
e . TAD Software Formal Qualification Testing	MIPR	ARDEC, Picatinny Arsenal, NJ	0	0		0		0	0	0	0	0
Subtotal:			0	4095		3100		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
a. SBIR/STTR			0	498	2Q	0		0	0	0	0	0
Subtotal:			0	498		0		0		0	0	0
Project Total Cost:			5625	17224		18199		0		0	0	0

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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
516 PALADIN/FAASV	0	2471	4634	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: The Paladin/FAASV project allows for integration of several system improvements which will provide for: automated dispensing of M231/M232 charge in vehicle; replacement of M82 cartridge primer with a laser ignition system; and upgrade of several components of the Automated Fire Control System (AFCS) XXI. These system improvements provide significantly improved mission effectiveness, increased reliability, maintainability and supportability, as well as reduce life cycle costs and obsolescence. This system supports the Legacy transition path of the Transformation Campaign Plan(TCP).

FY 2000 Accomplishments

Project not funded.

FY 2001 Planned Program

- 1296 Perform System Integration and Development of Fire Control TDP Upgrade
- 670 Fabrication of Sub System Components and Cabling
- 190 Perform On-Vehicle Component Testing
- 242 Provide Program Management
- 73 Small Business Innovative Research/Small Business Technology Transfer(SBIR/STTR)

Total 2471

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FY 2002 Planned Program

- 3064 Perform System Integration and Development of MACS and Laser Ignition System
 - 820 Perform On-Vehicle Component Testing
 - 750 Provide Program Management
- Total 4634

<u>B. Other Program Funding Summary</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>	<u>To Compl</u>	<u>Total Cost</u>
PA, WTCV, GA0400 Paladin	26824	7987	5370	0	0	0	0	0	0	0
PA, WTCV, GA8010 FAASV PIP	229	5	18501	0	0	0	0	0	0	0

C. Acquisition Strategy: The Paladin/FAASV project will leverage both Government and Contractor capabilities to accomplish the development of the Paladin/FAASV system improvement projects. Government in-house engineering will perform some component level design and system integration. Final System Level Testing will be performed by Other Government Agencies (OGA). Competitive contracts will be used for many of the component level design and hardware fabrication. To the extent possible, maximum use of existing commercial off-the-shelf hardware and software will be utilized.

<u>D. 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>
Award Contract for Fire Control Upgrade		3Q	0	0	0	0	0	0
Perform AFCS XXI Development and Hardware Fabrication		4Q	0	0	0	0	0	0
Complete AFCS XXI TDP Update		4Q	0	0	0	0	0	0
Award OGA for MACS Stowage and Handling Development and Hardware Fabrication		4Q	0	0	0	0	0	0
Perform MACS Stowage and Handling Testing and Evaluation			4Q	0	0	0	0	0
Complete MACS Stowage and Handling TDP			0	0	0	0	0	0
Award Development and Hardware OGA's and Contracts for Laser Ignition System			1Q	0	0	0	0	0

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<u>D. Schedule Profile (continued)</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Perform Live Fire Testing with Laser Ignition System				0	0	0	0	0
Complete Laser Ignition TDP				0	0	0	0	0

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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 . Component Design	Various	Unknown	0	912	2-3Q	1564	2Q	0	0	0	0	0
b . System Integration	MIPR	TACOM-ARDEC, Picatinny, NJ	0	868	2-3Q	1200	2Q	0	0	0	0	0
c . TDP Development	MIPR	TACOM-ARDEC, Picatinny, NJ	0	204	2-3Q	300	1Q	0	0	0	0	0
Subtotal:			0	1984		3064		0		0	0	0

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 . Logistics	MIPR	TACOM-ACALA, Moline, IL	0	124	2Q	300	1Q	0	0	0	0	0
Subtotal:			0	124		300		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)

June 2001

BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV	PE NUMBER AND TITLE 0604854A - ARTILLERY SYSTEMS - EMD	PROJECT 516
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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 . Component Level Testing	MIPR	TACOM-ARDEC, Picatinny, NJ	0	35	4Q	350	1Q	0	0	0	0	0
b . System Level Testing	MIPR	TECOM, APG, MD	0	155	4Q	470	3Q	0	0	0	0	0
Subtotal:			0	190		820		0		0	0	0

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
a . PMO Support	NA	PM Paladin/FAASV, Picatinny, NJ	0	173	1Q	450	1Q	0	0	0	0	0
Subtotal:			0	173		450		0		0	0	0

Project Total Cost:			0	2471		4634		0		0	0	0
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