

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

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0203735A - Combat Vehicle Improvement Programs

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	87032	100575	195602	0	0	0	0	0	0	0
330 ABRAMS TANK IMPROVE PROG	36805	75044	182535	0	0	0	0	0	0	0
344 FIRE SPT TM VEH INTG	10980	2134	0	0	0	0	0	0	0	0
371 BRADLEY BASE SUSTAIN	28809	1983	0	0	0	0	0	0	0	0
718 GRND COMBAT VEHICLE HTI	7638	18951	12568	0	0	0	0	0	0	0
C64 DC64	2800	2463	499	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 (PE) responds to vehicle deficiencies identified during Desert Storm, continues technical system upgrades, and addresses needed evolutionary enhancements to tracked combat (Abrams and Bradley) and tactical (Bradley Fire Support (FIST)) vehicles. This PE provides combat effectiveness and Operating and Support (O&S) cost reduction enhancements for the Abrams Tank, through a series of product improvements to the current M1A1 and M1A2 vehicles. Additional improvements allow the M1A2 System Enhancement Package (SEP) tank to operate effectively with the M2A3 Bradley. This PE also addresses future product improvements to the M2A3, and the Abrams tank fleet. Common Digitization (CD) efforts will work towards the resolution of common digitization concerns that impact all current and future Ground Combat Support Systems (GCSS). Included are Real Time Common Operating Environment (RTCOE) Expansion, and an Abrams/Bradley Common Digitization Program. These systems support the Legacy transition path of the Transformation Campaign Plan.

**ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)****June 2001**

BUDGET ACTIVITY

**7 - OPERATIONAL SYSTEMS DEV**

PE NUMBER AND TITLE

**0203735A - Combat Vehicle Improvement Programs**

<u><b>B. Program Change Summary</b></u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	83271	99423	103657	0
Appropriated Value	84544	101523	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR/STTR	-2240	0	0	
c. Omnibus or Other Above Threshold Reprogrammings	1656	0	0	
d. Below Threshold Reprogramming	3999	0	0	
e. Rescissions	-927	-948	0	
Adjustments to Budget Years Since FY2001 PB	0	0	91945	
Current Budget Submit (FY 2002/2003 PB )	87032	100575	195602	0

## Change Summary Explanation:

FY 2000 increased for Cordless VIS to Abrams, Project D330.

FY 2002/2003 increased for Abrams, Project D330 to accelerate the Abrams/Crusader Common Engine (ACCE) program due to the Army Transformation Campaign Plan.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV				PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 330	
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
330 ABRAMS TANK IMPROVE PROG	36805	75044	182535	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> This project funds improvements to the Abrams Main Battle Tank (M1 series). The Abrams mission is to close with and destroy enemy forces on the integrated battlefield using firepower, maneuver, and shock effect. The M1A2 was the Army's first fully digital ground combat system developed under this project. It was succeeded by the M1A2 SEP, which is the current production model. SEP refers to a System Enhancement Package which upgrades the M1A2's computer systems and its night vision capabilities. The first M1A2 SEP tank was delivered to the Government on 1 September 1999. The SEP tank has better microprocessors, color flat panel displays, more memory capacity, better Soldier-Machine Interface (SMI), and a new open operating system designed to run the Army's Common Operating Environment (ACOE) software [funded under PE 0203758A]. Both the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) on the SEP tank include the improved thermal imaging capabilities of the new 2nd Generation Forward-Looking Infra-Red (FLIR) technology. A separate development program to partially digitize the M1A1 Tank began in FY 1997 with funds provided under PE 0203758A. Post SEP development efforts are focusing on improvements yielding significant life cycle cost reductions or survivability enhancements. The Abrams-Crusader Common Engine (ACCE) program, which began in FY 2000, is the most significant of these efforts. The objective is a lighter, more reliable, more fuel efficient, and easier-to-repair engine. The ACCE program is also supported by FY 2000 funding under PE 0603005A and PE 0603854A. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP).</p> <p><b><u>FY 2000 Accomplishments</u></b></p> <ul style="list-style-type: none"> <li>• 3230 Integration of Battlefield Combat Identification System (BCIS) into the M1A2 SEP tank</li> <li>• 1408 Provided Government Support</li> <li>• 6067 Initiated M1A2 SEP Live Fire and Survivability Test, including pre-shot analysis and start of test shots</li> <li>• 9832 Initiated engineering efforts to upgrade the Abrams engine</li> <li>• 970 Initiated lightweight vehicle track development</li> <li>• 4158 Initiated development of M1A2 test program sets, and Abrams 1st and 2nd generation health check system</li> <li>• 9140 Initiated program for redesign of turret and hull network boxes and built-in test embedded diagnostic program for the M1A1 fleet</li> <li>• 2000 Initiated integration and testing of a wireless Vehicle Intercommunication System (VIS)</li> </ul> <p>Total 36805</p>										

**ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)****June 2001**

BUDGET ACTIVITY

**7 - OPERATIONAL SYSTEMS DEV**

PE NUMBER AND TITLE

**0203735A - Combat Vehicle Improvement Programs**

PROJECT

**330****FY 2001 Planned Program**

- 12663 Continue M1A2 SEP Live Fire and Survivability Test, including live fire shots, simulation and purchase of system support package
- 1210 Provide Government Support
- 47160 Continue Abrams-Crusader Common Engine (ACCE) Program
- 3800 Continue redesign of turret and hull network boxes and built-in test embedded diagnostic program for the M1A1 fleet
- 2900 Continue lightweight vehicle track development
- 5100 System Technical Support (STS) for the Abrams program
- 2232 Small Business Innovation Research/Small Business Technology Transfer

Total 75065

**FY 2002 Planned Program**

- 6900 Continue M1A2 SEP Live Fire and Survivability Test, including simulation and live fire shots
- 163141 Continue Abrams-Crusader Common Engine (ACCE) Program
- 1249 Provide Government Support
- 500 Begin Vehicle Integrated Defense System (VIDS) (M1A1)
- 3045 Continue integration of Battlefield Combat Identification System (BCIS) into the M1A2 SEP tank
- 5700 Continue System Technical Support (STS) for the Abrams program
- 2000 Continue lightweight vehicle track development

Total 182535

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

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0203735A - Combat Vehicle Improvement Programs

PROJECT

330

<b>B. Other Program Funding Summary</b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Abrams Upgrade Program (GA0750)	803949	463716	590240	0	0	0	0	0	0	0
Abrams Vehicle Modification (GA0700)	29645	56476	113485	0	0	0	0	0	0	0
M1A1D Retrofit (GA0720)	0	883	11647	0	0	0	0	0	0	0
System Enhancement Pgm: SEP M1A2 (GA0730)	0	58111	95152	0	0	0	0	0	0	0
M1A2 Training Devices (GB1302)	8362	10407	11814	0	0	0	0	0	0	0
Training Device Mod (GA5208)	2628	5282	5545	0	0	0	0	0	0	0
Initial Spares (GE0161)	9713	14671	23554	0	0	0	0	0	0	0
PE 0603854A (D505)*	14207	70000	54100	0	0	0	0	0	0	0
PE 0603005A (D532)	4773	0	0	0	0	0	0	0	0	0

\*Funding represents a portion of the overall funding in project D505.

**C. Acquisition Strategy:** General Dynamics Land Systems Division (GDLS) is the prime contractor for this development program. Honeywell is the prime contractor for the ACCE development program.

<b>D. Schedule Profile</b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Complete M1A2 SEP Live Fire Testing				0	0	0	0	0
Award Abrams-Crusader Common Engine (ACCE) Contract	4Q			0	0	0	0	0
Complete Abrams-Crusader Common Engine (ACCE) Contract				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 330		
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 . Prior Contracts			472549	0		0		0	0	0	0	0
b . SEP/FLIR Phase I	SS-CPFF	General Dynamics Sterling Heights, MI	4688	0		0		0	0	0	0	0
c . SEP/FLIR Phase II	SS-CPFF	General Dynamics Sterling Heights, MI	115862	0		0		0	0	0	0	0
d . FLIR Integration	C-CPAF	Texas Instruments McKinney, TX	25000	0		0		0	0	0	0	0
e . Abrams-Crusader Common Engine (ACCE)	C-CPAF	Honeywell International Phoenix, AZ	0	47160		163141		0	0	0	0	0
f . BCIS Integration	SS-CPFF	General Dynamics Sterling Heights, MI	3230	0		3045		0	0	0	0	0
g . Other / Future Contracts			11238	8000		8200		0	0	0	0	0
h . SBIR/STTR, etc.			0	2233		0		0	0	0	0	0
Subtotal:			632567	57393		174386		0		0	0	0
Remarks: GDLS contracts (Phase I / Phase II) include funding from 0203758A / D374 and 0604649A / DG26.												

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 330		
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 . Gov't Support / GFE	MIPR	TACOM / OGA's	46033	1210		1249		0	0	0	0	0
b . DSESTS - BIT/FIT Requirements	MIPR	TACOM / OGA's	13299	3800		0		0	0	0	0	0
Subtotal:			59332	5010		1249		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 . Various Test Sites	MIPR	OGA's	46245	12662		6900		0	0	0	0	0
Subtotal:			46245	12662		6900		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 330		
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:			738144	75065		182535		0		0	0	0



<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>							<b>June 2001</b>			
BUDGET ACTIVITY <b>7 - OPERATIONAL SYSTEMS DEV</b>				PE NUMBER AND TITLE <b>0203735A - Combat Vehicle Improvement Programs</b>				PROJECT <b>718</b>		
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
718 GRND COMBAT VEHICLE HTI	7638	18951	12568	0	0	0	0	0	0	0
<p><b>A. Mission Description and Budget Item Justification:</b>Project D718, Ground Combat Vehicle Horizontal Technology Integration (HTI), is a project initiated for the purpose of developing technology improvements which have application to or insertion opportunities across multiple Ground Combat Support System (GCSS) vehicles, both current and future (e.g. Future Combat Systems (FCS)). This project funds Suite of Survivability Enhancements Systems (SSES), Flat Panel Display (FPD),Common Digitization (CD) and RTCOE Expansion.</p> <p>SSES is an HTI initiative to develop, produce and apply Hit Avoidance Technology to Army ground combat vehicles. Laser Warning Receiver (LWR) is part of that effort. Successful testing of LWR was accomplished on the Bradley A3 during FY99/00 and 318S LWRS development will continue in FY01 for GCV's.</p> <p>FPD program is an effort to develop common, flat panel multi-purpose display performance specifications and evaluate current FPD for GCV systems, CFPD performance specification will optimize industrial FPD standards while allowing for future common GCV display requirements and modularity.</p> <p>CD efforts will work towards the resolution of common digitization technology concerns that impact current and future GCSS systems. The CD efforts include Real Time Common Operating Environment (RTCOE) Expansion, Common Electronic Obsolescence Avoidance (EOA), and Common GCSS Digitization Technology efforts.</p> <p>1) RTCOE Expansion will seek to identify opportunities to grow Crusader's RTCOE middleware to meet the FCS/CGA requirements. This effort will work towards getting acceptance and compliance of RTCOE with the Defense Information Infrastructure Common Operating Environment and the Joint Technical Architecture standards.</p> <p>2) EOA will identify and resolve current GCSS Systems electronics obsolescence with special emphasis on future electronics integration in GCV's. The EOA effort will examine technology alternatives that can provide current and future GCV's the opportunity to incorporate state of the art electronic technologies and maintain that capability for a reasonable period of performance. EOA will also examine increasing usage of Commercial-off-the-shelf (COTS) electronic products.</p> <p>3) Common GCSS Digitization technology efforts will identify, develop and integrate common GCSS Warfighter Digitization requirements that will provide continued Tactical Overmatch and reduce soldier-machine interface (SMI) burden throughout the GCV's lifecycle. These common GCSS Warfighter Digitization technologies will support current and future GCSS systems.</p> <p>This PE supports the Legacy transition path of the Transformation Campaign Plan (TCP)</p>										

**ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)****June 2001**

BUDGET ACTIVITY

**7 - OPERATIONAL SYSTEMS DEV**

PE NUMBER AND TITLE

**0203735A - Combat Vehicle Improvement Programs**

PROJECT

**718****FY 2000 Accomplishments**

- 6709 Design & Engineering Improvements (FED)
- 30 Government Performance Evaluation (FED)
- 300 Performance Specification/ICD Completion/Government Approval (FED)
- 299 Program Management & Administration (FED)
- 300 Contractor evaluation of prototype displays (FED)

Total 7638

**FY 2001 Planned Program**

- 3854 Field Emission Display (FED) Reprogrammed to Abrams
- 2691 Laser Warning Receiver (LWR) development, test, and Type Classification
- 200 Laser Warning Receiver (LWR) Program Management
- 458 Program management and administration (CD)
- 750 RTCOE Expansion
- 564 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)
- 3999 Common modeling and simulation efforts
- 6435 Abrams/Bradley Common Obsolescence/Digitization

Total 18951

**FY 2002 Planned Program**

- 12318 Abrams/Bradley Common Obsolescence/Digitization
- 250 RTCOE Expansion

Total 12568

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY <b>7 - OPERATIONAL SYSTEMS DEV</b>	PE NUMBER AND TITLE <b>0203735A - Combat Vehicle Improvement Programs</b>	PROJECT <b>718</b>
<p><b><u>B. Other Program Funding Summary:</u></b> Not applicable for this item.</p> <p>Six complete 318S systems will be delivered to the PEO for future integration. Potential candidates are BCT, FCS and LAV.</p> <p><b><u>C. Acquisition Strategy:</u></b>The Laser Warning Receiver,(LWR) effort, will be accomplished through contract efforts with CECOM RDEC, the 318S will be developed by adding the AN/VVR-1 laser beam rider (LBR)detection capabilities to an existing NDI laser warning system in use by the Canadian government, the 218S. This approach will provide the Army with a low cost and low risk way to meet the Operational Requirements Document for the Laser Warning Receiver System, dated 19 Aug 1994.</p> <p>The RTCOE effort will use existing prime contractors to investigate avenues to expand the RTCOE middleware to meet the FCS/CGA requirements. This effort will work towards getting acceptance and compliance with RTCOE with the Defense Information Infrastructure Commons Operating Environment and the Joint Technical Architecture standards.</p> <p>CD efforts will work towards the resolution of common digitization technoloty concerns that impact current and future GCSS systems. Requirements will be incorporated into the exististing STS contract via Work Directive. The CD efforts include Real Time Common Operating Environment (RTCOE) Expansion, Common Electronic Obsolescence Avoidance (EOA), and Common GCSS Digitization Technology efforts.</p> <p>1) RTCOE Expansion will seek to identify opportunities to grow Crusader's RTCOE middleware to meet the FCS/CGA requirements. This effort will also support efforts to seek JTA acceptance of the RTCOE as a true real time middleware.</p> <p>2) EOA will identify and resolve current GCSS Systems electronics obsolescence with special emphasis on future electronics integration in GCV's. The EOA effort will examine technology alternatives that can provide current and future GCV's the opportunity to incorporate state of the art electronic technologies and maintain that capability for a reasonable period of performance. EOA will also examine increasing usage of Commercial-off-the-shelf (COTS) electronic products.</p> <p>3) Common GCSS Digitization technology efforts will identify, develop and integrate common GCSS Warfighter Digitizaiton requirements that will provide continued Tactical Overmatch and reduce soldier-machine interface (SMI) burden throughout the GCV's lifecycle. These common GCSS Warfighter Digitization technologies will support current and future GCSS systems.</p> <p>This project supports the Legacy transition path of the Transformation Campaign Plan (TCP)</p>		

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

June 2001

BUDGET ACTIVITY

**7 - OPERATIONAL SYSTEMS DEV**

PE NUMBER AND TITLE

**0203735A - Combat Vehicle Improvement Programs**

PROJECT

**718**

<b><u>D. Schedule Profile</u></b>	<b><u>FY 2000</u></b>	<b><u>FY 2001</u></b>	<b><u>FY 2002</u></b>	<b><u>FY 2003</u></b>	<b><u>FY 2004</u></b>	<b><u>FY 2005</u></b>	<b><u>FY 2006</u></b>	<b><u>FY 2007</u></b>
LWR Development		3-4Q		0	0	0	0	0
LWR Testing			1-2Q	0	0	0	0	0
LWR Type Classification			3-4Q	0	0	0	0	0
RTCOE Expansion		2-4Q	1-2Q	0	0	0	0	0
Abrams/Bradley Common Obsolescence/Digitization		3-4Q	1-4Q	0	0	0	0	0
High Resolution Development (FED)	1-4Q			0	0	0	0	0
Tech Evaluation (FED)	1-2Q			0	0	0	0	0
Evaluation for vehicle HTI	1-4Q			0	0	0	0	0

The FED effort for FY01 has been aligned with Abrams project D330.

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 718		
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 . LWR Development		BF Goodrich, Danbury CT	3741	2691	3Q	0		0	0	0	0	0
b . LWR Integration/LWR Integration	CPIF	UDLP, Santa Clara, CA	3863	0		0		0	0	0	0	0
c . LWR CDA	CPAF	SLM, Nashua, NH	452	0		0		0	0	0	0	0
d . RTCOE Exp	CPIF	UDLP, Minn, MD	0	750	3Q	250		0	0	0	0	0
e . FED-Tech Development	Cost/Share	MICRON/Pixtech, Boise, ID	33110	0		0		0	0	0	0	0
f . FED-Technology Evaluation	CPIF	GDLS, Sterling Hts, Mi	450	0		0		0	0	0	0	0
g . FED-Technology Eval	CPIF	UDLP, Santa Clara, CA	904	0		0		0	0	0	0	0
h . Abrams/Bradley Obsolescence/Digitization	FP	GDLS/UDLP	0	5684	3-4Q	12318		0	0	0	0	0
i . Program Adjustments			0	8418		0		0	0	0	0	0
Subtotal:			42520	17543		12568		0		0	0	0
Remarks: Program Adjustments= FED efforts has been realigned to Abrams D330 (3854) and DA withdrawl for support to other DA projects (4563)												

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 718		
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 . Tech Spt. - LWR		BF Goodrich, Danbury CT	882	200	3Q	0		0	0	0	0	0
b . Tech Spt. - LWR	MIPR	TARDEC, MI	225	0		0		0	0	0	0	0
c . Support Mgt. - LWR	CPFF	Sig/Rsch, MI	93	0		0		0	0	0	0	0
d . Engr. Spt. - LWR	CPAF	Camber, MI	513	0		0		0	0	0	0	0
e . Training Aid Develop - LWR	MIPR	STRICOM, FL	308	0		0		0	0	0	0	0
f . IBAS Display - LWR	MIPR	PM CCAWS, AL	30	0		0		0	0	0	0	0
g . Engr.Test Spt. - LWR	MIPR	SLAD (OMI), NM	672	0		0		0	0	0	0	0
h . Engr. Spt-FED	CPIF	GDLS, Mi	100	0		0		0	0	0	0	0
i . Engr. Spt-FED	CPIF	UDLP, CA	220	0		0		0	0	0	0	0
j . Engr. Spt.-FED	MIPR	NVESD	20	0		0		0	0	0	0	0
Subtotal:			3063	200		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 718		
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 . FED Perf. Evaluation	CPIF	UDLP, CA	120	0		0		0	0	0	0	0
b . FED HTI Veh. Evaluation	CPIF	GDLS, MI	0	0		0		0	0	0	0	0
c . FED HTI Veh. Evaluation	CPIF	UDLP, CA	500	0		0		0	0	0	0	0
d . Field Test LWR	MIPR	RTTC, AL	68	0		0		0	0	0	0	0
e . Missile Warning LWR	MIPR	Naval Rsch, Wash, DC	35	0		0		0	0	0	0	0
f . LWR User Eval	MIPR	Eglin AFB, FL	375	0		0		0	0	0	0	0
g . LWR Tech Test	MIPR	Yuma, AZ	208	0		0		0	0	0	0	0
h . LWR User Eval	MIPR	Ft. Benning, GA	130	0		0		0	0	0	0	0
i . LWR User Eval	MIPR	Ft. Knox, KY	50	0		0		0	0	0	0	0
j . LWR User Eval	MIPR	Other	174	0		0		0	0	0	0	0
k . Abrams/Bradley Obsolescence/Digitization		GDLS/UDLP	0	750		0		0	0	0	0	0
Subtotal:			1660	750		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203735A - Combat Vehicle Improvement Programs					PROJECT 718		
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 . In House Spt LWR	MIPR	PM GSI/PEO, MI	699	0		0		0	0	0	0	0
b . In House Spt FED	MIPR	PM GSI/ABRAMS, MI	895	0		0		0	0	0	0	0
c . In House Spt CGA			0	0		0		0	0	0	0	0
d . In House Spt PEO GCSS PM's			297	458		0		0	0	0	0	0
Subtotal:			1891	458		0		0		0	0	0
Project Total Cost:			49134	18951		12568		0		0	0	0